INITIAL ENVIRONMENTAL EXAMINATION-IEE

(REVISED-01)

FOR

"MANUFACTURING, ASSEMBLING AND SALES OF BUSES, COACHES, REPAIR AND MAINTENANCE SERVICES"

No 188/189, 10th Street, Yangon Industrial Zone, Mingalardon Township, Yangon Region



PROPONENT



SC Auto (Myanmar) Co., Ltd. No 188/189, 10th Street, Yangon Industrial Zone, Mingalardon Township, Yangon Region Tel: 01-9670928

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PREPARED BY



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February 2024 [Revised 01]

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Report Review Form

Report Title: Initial Environmental Examination Report (Final) for "MANUFACTURING, ASSEMBLING AND SALES OF BUSES, COACHES, REPAIR AND MAINTENANCE SERVICES"	
Report Version: 01 Version	
Proponent:	Prepared by:
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Approved Date: 27/2/2024	Signature:

SC Auto (Myanmar) Co., Ltd. ၏ ရန်ကုန်တိုင်းဒေသကြီး၊ မင်္ဂလာဒုံမြို့နယ်၊ ရန်ကုန်စက်မှုဇုန်၊ အမှတ်-၁၁၈/၁၁၉၊ (၁၀) လမ်းတွင် ခရီးသည်တင် မော်တော်ယာဉ်နှင့် အဝေးပြေးဘတ်စ်ကားများ တပ်ဆင်ခြင်း၊ ထုတ်လုပ်ခြင်းနှင့် ပြုပြင်ထိန်းသိမ်းရေးဝန်ဆောင်မှုလုပ်ငန်းအတွက် ရေးဆွဲတင်ပြလာသည့် ကနဦးပတ်ဝန်းကျင် ဆန်းစစ်ခြင်း (Initial Environmental Examination-IEE) အစီရင်ခံစာအပေါ် စိစစ်တွေ့ရှိချက်နှင့် သုံးသပ်အကြံပြုချက်များအား ပြန်လည်ပြင်ဆင်ဖြည့်စွက်ထားမှုများ

စဉ်	သုံးသပ်အကြံပြုချက်များ	သုံးသပ်အကြံပြုချက်များ
(က)	ကတိကဝတ်	
	ကတိကဝတ်အားဖော်ပြရာတွင် ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ	DOCUMENT CERTIFICATION AND DECLARATION - စာမျက်နှာ
	လုပ်ထုံး လုပ်နည်း အပိုဒ် ၃၅ အရ အောက်ပါကတိကဝတ်များကို အခြား	XIV တွင်ပြန်လည်ထည့်သွင်းဖော်ပြထားပါသည်။
	ဖော်ပြချက်များနှင့် ပူးပေါင်းမဖော်ပြဘဲ စီမံကိန်းအဆိုပြုသူနှင့် အကြံပေး	
	ပုဂ္ဂိုလ်တို့မှ လက်မှတ်ရေးထိုး၍ သီးခြားထည့်သွင်းဖော်ပြရန်-	
	(က) ကနဉီးပတ်ဝန်းကျင်ဆန်းစစ်ခြင်းသည် တိကျခိုင်မာကြောင်းနှင့်	
	ပြည့်စုံကြောင်း၊	
	(ခ) ဤလုပ်ထုံးလုပ်နည်းအပါအဝင် သက်ဆိုင်ရာဥပဒေများကို တိကျစွာ	
	လိုက်နာ၍ ကနဦးပတ်ဝန်းကျင်ဆန်းစစ်ခြင်းကို ဆောင်ရွက်ထားကြောင်း၊	
	(ဂ) စီမံကိန်းသည် ကနဦးပတ်ဝန်းကျင်ဆန်းစစ်ခြင်း အစီရင်ခံစာပါ	
	ကတိကဝတ်၊ ပတ်ဝန်းကျင်ထိခိုက်မှု လျှော့ချရေးလုပ်ငန်းများနှင့် အစီအစဉ်	
	များကို အပြည့်အဝ အစဉ်အမြဲ လိုက်နာဆောင်ရွက်မည်ဖြစ်ကြောင်း၊	
	(ဃ) စက်ရုံလုပ်ငန်းပြီးစီး၍ စီမံကိန်းပိတ်သိမ်းချိန်တွင် လူမှုဝန်းကျင်အား	
	ထိခိုက်မှုအနည်းဆုံးဖြစ်စေရန် အစီအမံများ ချမှတ်ဆောင်ရွက်ပေးမည်	
	ဖြစ်ကြောင်း။	
(ວ)	အကျဉ်းချပ်အစီရင်ခံစာ	
	မှတ်ချက်ပေးရန်မရှိပါ။	
(೧)	စီမံကိန်းအကြောင်းအရာဖော်ပြချက်	
	• စီမံကိန်းအဆိုပြုသူ၏ အမည်၊ ဆက်သွယ်ရန်လိပ်စာ၊ ဖုန်းနံပါတ်၊	• အခန်း (၃) အပိုင်း ၃.၁ Project Particulars စာမျက်နှာ (၄၃)

စဉ်	သုံးသပ်အကြံပြုချက်များ	သုံးသပ်အကြံပြုချက်များ
	အီးမေးလ်၊ ဝက်ဆိုက်တို့ကို ဖော်ပြပေးရန်၊	တွင် ပြန်လည်ထည့်သွင်းဖော်ပြထား ပါသည်။
	• စီမံကိန်းလုပ်ငန်း စတင်မည့်အချိန်ကာလ်၊ ထုတ်လုပ်မှုစတင်မည့် အချိန်	• အခန်း(၃) အပိုင်း ၃.၁၀ Project Schedule ဇယား ၃.၈
	ကာလ၊ စီမံကိန်းပိတ်သိမ်းမည့် အချိန်ကာလတို့ကို ဖော်ပြထားသော	(စာမျက်နာ ၆၆ မှ ၆၇ ထိ) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။
	Project Schedule ကို ဖော်ပြပေးရန်၊	
	• စက်ရုံမှထုတ်လုပ်မည့် မော်တော်ယာဉ်အမျိုးအစားများကို	• အခန်း(၃) အပိုင်း ၃.၇ Product Profile and Production
	ဓါတ်ပုံများဖြင့် ဖော်ပြရန်နှင့် အမျိုးအစားအလိုက် ထုတ်လုပ်မည့်	Capacity စာမျက်နာ (၆ဂ) တွင်ထည့်သွင်းဖော်ပြထား ပါသည်။
	အရေအတွက်ကို နစ်အလိုက်/ လအလိုက်ဖော်ပြရန်၊	• အခန်း(၃) အပိုင်း ၃.၁၃ Factory Buildings Description ရှိ
	• စီမံကိန်းလုပ်ငန်းတွင်ပါဝင်သည့် အခြေခံအဆောက်အအုံများနှင့် အရေ	Table ၃.၁၀ စာမျက်နာ (၇၁ မှ ၈၁ ထိ) တွင်ထည့်သွင်း
	အတွက်ကို စာရင်းပြုစုဖော်ပြရန်၊	ဖော်ပြထားပါသည်။
	• အသုံးပြုမည့်စက်ယန္တရားများနှင့် အရေအတွက်ကို စာရင်းပြုစုဖော်ပြ	• အခန်း (၃) အပိုင်း ၃.၆ Equipment (to be imported) «ယား
	ရန်၊	၃.၄ စာမျက်နာ (၅၃ မှ ၆ဂ ထိ) တွင် ထည့်သွင်း ဖော်ပြထား
		ပါသည်။
	• အစီရင်ခံစာ၏ စာမျက်နှာ ၄၈ တွင် ဖော်ပြထားသော Figure 3.20	• အခန်း (၃) အပိုင်း ၃.၁၄ Waste Disposing System၊ စာမျက်နှာ
	Grease Interceptor for Industrial Wastewater Drain	(၈၁-၈၆) နှင့် Appendix (17) တွင်ပြန်လည် ဖော်ပြထားပါသည်။
	ရှင်းလင်းပြတ်သားစွာ ဖြင့် ပြန်လည်ဖော်ပြပေးရန်၊	
	• အစီရင်ခံစာ၏ စာမျက်နှာ ၅၀ တွင် ဖော်ပြထားသော Figure 3.22	• အခန်း (၃) အပိုင်း ၃.၁၄.၂ Sanitary Water Disposal-
	Sanitation System Outlet ကို ရှင်းလင်းပြတ်သားစွာဖြင့် ပြန်လည်	စာမျက်နာ (၈၂-၈၅) နှင့် Appendix (13) စာမျက်နာ (CIX)
	ဖော်ပြပေးရန်၊	တွင်ပြန်လည် ဖော်ပြထားပါသည်။
	• စက်ရုံတွင် ထုတ်လုပ်မှုကဏ္ဍအလိုက် စက်ပစ္စည်းများ၏ နေရာချထားမှု	• အခန်း (၃) အပိုင်း ၃.၁၃ Factory Buildings Description ၊
	အခင်းအကျင်း Layout Plan၊ Schematic Diagram တို့ကို ဖော်ပြရန်၊	စာမျက်နာ (၇၁ မှ ၈၁ ထိ) တွင် ဖော်ပြထားပါသည်။
	• Spray Painting Process အတွက် သုံးစွဲမည့် သုတ်ဆေးများ၊ဖြန်းဆေး	• အခန်း(၃) ဇယား ၃.၄-စာမျက်နှာ (၅၂) တွင် ထည့်သွင်း
	အမျိုးအစား၊ Material Safety Data Sheet၊ သုံးစွဲမည့်ပမာကာ၊	ဖော်ပြထားပါသည်။ Material Safety Data Sheet အား
	ရယူမည့် အရင်းအမြစ်၊ သိုလှောင်ထားရှိမည့်အစီအစဉ်တို့ကိုဖော်ပြရန်၊	Appendix (XXXIII) တွင်ဖော်ပြထားပါသည်။.
	• လောင်စာဆီများ သုံးစွဲသည့်ပမာက၊ ရယူသည့်အရင်းအမြစ်၊ သယ်ယူ	• အခန်း (၃) အပိုင်း ၃.၁၂ Utilities ၊ Fuel Requirements ခေါင်း

စဉ်	သုံးသပ်အကြံပြုချက်များ	သုံးသပ်အကြံပြုချက်များ
	ပို့ဆောင်မှုနှင့် သိုလှောင်ထားရှိမှု အခြေအနေကို ဖော်ပြပေးရန်၊	စဉ်ဖြင့် စာမျက်နှာ (၇၄ မှ ၇၅ ထိ) တွင် ထည့်သွင်းဖော်ပြထား ပါသည်။
	 အစီရင်ခံစာ၏ စာမျက်နာ (၁၇-၂၅) တွင် တင်သွင်းမည့် ကုန်ကြမ်း ပစ္စည်းများကို အရေအတွက်နှင့်တကွ ဖော်ပြထားရာ အဆိုပါ တင်သွင်း မည့် ကုန်ကြမ်းပစ္စည်းများ အရေအတွက်ကို နှစ်အလိုက်/ လအလိုက် အချိန် ကာလနှင့်တကွ ဖြည့်စွက်ဖော်ပြရန်၊ 	• အခန်း (၃) အပိုင်း ၃.၅ Raw Materials၊ ဇယား ၃.၁ ၊ စာမျက်နှာ (၄၄-၆၃) တွင် ထည့်သွင်းဖော်ပြထားပါသည်
	 စီမံကိန်းတွင် လိုအပ်မည့်ကုန်ကြမ်းများနှင့် ထုတ်လုပ်ပြီးဖြစ်သော မော်တော်ယာဉ်များအား သယ်ယူပို့ဆောင်ရေးနည်းလမ်းများ၊ အစီ အစဉ်များ၊ သိုလှောင်ထားရှိမှု၊ သယ်ယူပို့ဆောင်မည့်နေရာ၊ ယာဉ်များ စသည်တို့ ကို ဖော်ပြရန်၊ 	• အခန်း (၃) အပိုင်း ၃.၅ Raw Material၊ စာမျက်နှာ(၄၄-၅၂) နှင့် အပိုင်း ၃.၆ Product Profile and Production Capacity စာမျက်နာ (၆ဂ) တွင် ထည့်သွင်းဖော်ပြထားပါသည်
	 လျှပ်စစ်ဓါတ်အားသုံးစွဲမှုနှင့် ရယူသည့်အရင်းအမြစ်၊ ရေသုံးစွဲမှုနှင့် ရယူ သည့် အရင်းအမြစ်တို့ကို စီမံကိန်းအကြောင်းအရာ ဖော်ပြချက်တွင် ဖြည့်စွက်ဖော်ပြရန်၊ 	• အခန်း (၃) အပိုင်း ၃.၁၂ Utilities စာမျက်နှာ (၆၈ မှ ဂု၁ ထိ) တွင် ထည့်သွင်းဖော်ပြထား ပါသည်။
	 စွန့်ပစ်ပစ္စည်းများ ထွက်ရှိမှုပမာကာကို အမျိုးအစားအလိုက် ခွဲခြားဖော်ပြ ပေးရန်နှင့် သိုလှောင်ထားရှိမည့်နေရာ၊ မည်သို့ တာဝန်ယူ စွန့်ပစ်မည် ဖြစ်ကြောင်းကို ဖော်ပြပေးရန်၊ စက်ရုံလုပ်ငန်းများနှင့် အလုပ်သမားများ သုံးစွဲရာမှ တစ်နေ့တာ 	 အခန်း (၃) အပိုင်း ၃.၁၄ Waste Disposing System အပိုင်းငယ် ၃.၁၄.၃ Solid Waste Disposing System စာမျက်နှာ (၈၆) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။ အခန်း (၃) အပိုင်း ၃.၁၄ Waste Disposing System အပိုင်းငယ်
	ထွက်ရှိမည့် စွန့်ပစ်ရေပမာဏ၊ စီးဆင်းရာလမ်းကြောင်းများနှင့် နောက်ဆုံးစွန့်ပစ်မည့် နေရာကို မြေပုံဖြင့်ဖော်ပြပေးရန်။	၃.၁၄.၁ Storm Water စာမျက်နာ (ၵ၁) တွင် ထည့်သွင်း ဖော်ပြ ထားပါသည်။
(ဃ)	မူဝါဒ၊ ဥပဒေနှင့် အဖွဲ့အစည်းဆိုင်ရာမူဘောင်	
	အစီရင်ခံစာတွင် လုပ်ငန်းနှင့်သက်ဆိုင်သည့် အောက်ဖော်ပြပါ တည်ဆဲ ဥပဒေများကို ထည့်သွင်းဖော်ပြရန်နှင့် အဆိုပါဥပဒေများကို ရေးသား ဖော်ပြရာ တွင် ဥပဒေများ၏ ပုဒ်မ၊ အပိုဒ်အား ကူးယူခြင်းမဟုတ်ဘဲ အဆိုပါ ဥပဒေ၏	

စဉ်	သုံးသပ်အကြံပြုချက်များ	သုံးသပ်အကြံပြုချက်များ
	ပုဒ်မ၊ အပိုဒ်ပါအချက်များကို စီမံကိန်းအဆိုပြုသူမှ လိုက်နာ ဆောင်ရွက်မည့်	
	ကတိကဝတ်ကို ထည့်သွင်းဖော်ပြရန်-	
	• ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဥပဒေ (၂၀၁၂) ပုဒ်မ ၇ (ဂၢာ)၊ ၁၄၊ ၁၅၊ ၁၆၊ ၂၉)	
	• ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးနည်းဥပဒေများ (၂၀၀၄) (နည်း ၆၉)	
	 ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ ၂၀၁၅ (အပိုဒ် 	
	၁၀၂ မှ ၁၁၀၊ ၁၁၃၊ ၁၁၅၊ ၁၁၇)	
	• အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်	
	ချက်များ၊ (အပိုဒ် ၁.၂၊ ၁.၃၊ ၁.၄)	
	• မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုဥပဒေ၊ ၂ဂ၁၆ (ပုဒ်မ ၅ဂ (ဃ)၊ ၅၁၊ ၆၅ (စ) မှ	
	(ထ)၊ ၇၃)	
	• မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှုနည်းဥပဒေများ၊ ၂၀၁၇ (နည်း ၂၀၂၊ ၂၀၃၊ ၂၀၆၊	
	പ്ര)	
	• မြန်မာ့အာမခံလုပ်ငန်းဥပဒေ၊ ၁၉၉၃ (ပုဒ်မ ၁၅၊ ၁၆)	
	• ပုဂ္ဂလိကစက်မှုလုပ်ငန်းဥပဒေ၊ ၁၉၉၀ (ပုဒ်မ ၄၊ ၁၃ (ခ) (စ) (ဆ)၊ ၁၅	
	(က) (ခ))	
	• ဓါတုပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းများ အန္တရာယ်မှ တားဆီးကာကွယ်ခြင်း	
	ဥပဒေ၊ ၂ဂ၁၃ (ပုဒ်မ ၁၅၊ ၁၆၊ ၁၇၊ ၂၂၊ ၂၇)	
	• မြန်မာ့မီးသတ်တပ်ဖွဲ့ဥပဒေ၊ ၂၀၁၅ (ပုဒ်မ ၂၅)	
	• ရေနံနှင့်ရေနံထွက်ပစ္စည်းဆိုင်ရာဥပဒေ၊ ၂ဂ၁ဂ (ပုဒ်မ ၉ (က) (င)၊ ၁ဂ (ခ)၊	
	(လောင်စာဆီ/ သယ်) ပုဒ်မ ၁၁၊ (ကန်ဖြင့်လှောင်လျှင်) ပုဒ်မ ၁ဂ (က)	
	(ဂ) (ဃ))	
	• မော်တော်ယာဉ်ဥပဒေ၊ ၂ဂ၁၅	
	 စံချိန်စံညွှန်းသတ်မှတ်ခြင်းဆိုင်ရာဥပဒေ၊ ၂၀၁၄ (ပုဒ်မ ၁၇၊ ၁၉၊ ၂၆) 	
	• မြန်မာအင်ဂျင်နီယာကောင်စီဥပဒေ၊ ၂၀၁၃ (ပုဒ်မ ၃၇၊ ၃၄)	

စဉ်		သုံးသပ်အကြံပြုချက်များ		သုံးသပ်အကြံပြုချက်များ
	•	ပို့ကုန်သွင်းကုန်ဥပဒေ၊ ၂ဂ၁၂ (ပုဒ်မ ၅၊ ၆၊ ၇)		
	•	အလုပ်သမားအဖွဲ့ အစည်းဥပဒေ၊ ၂၀၁၁		
	•	အလုပ်သမားအငြင်းပွားမှုဖြေရှင်းရေး ဥပဒေ၊ ၂ဂ၁၂		
	•	အလုပ်အကိုင်နှင့် ကျွမ်းကျင်မှုဖွံ့ဖြိုး တိုးတက်ရေးဥပဒေ၊ ၂၀၁၃		
	٠	အနည်းဆုံးအစကြေးငွေ ဥပဒေ၊ ၂၀၁၃		
	٠	အခကြေးငွေပေးချေရေးဥပဒေ၊ ၂၀၁၆		
	•	လူမှုဖူလုံရေးဥပဒေ၊ ၂၀၁၂		
	•	Workmen Compensation Act, 1923		
	•	ခွင့်နှင့်အလုပ်ပိတ်ရက်များ ဥပဒေ၊ ၁၉၅၁		
	•	မြန်မာနိုင်ငံပြည်သူ့ကျန်းမာရေးဥပဒေ၊ ၁၉၇၂ (ပုဒ်မ ၃၊ ၅)		
		ရန်ကုန်တိုင်းဒေသကြီး စည်ပင်သာယာရေးအဖွဲ့များဥပဒေ၊ ၂၀၁၈		
	•	ရေအရင်းအမြစ်နှင့် မြစ်ချောင်းများထိန်းသိမ်းရေးဥပဒေ၊ ၂ဂဂ၆ (ပုဒ်မ ၈		
		(က)၊ ၁၁၊ ၁၉၊ ၂၁ (ခ)၊ ၂၂၊ ၂၄ (ခ))		
(c)	စီမံ	ာကိန်းအနီးပတ်ဝန်းကျင်အကြောင်းအရာဖော်ပြချက်		
SI	•	စီမံကိန်းကြောင့် ဖြစ်နိုင်သည့် သက်ရောက်မှုများကို ဖော်ထုတ်ရန်အတွက်	•	အခန်း (၄) အပိုင်း ၄.၁ location and scale of the project
		အဆိုပါသက်ရောက်မှုများကို ခြုံငုံမိစေမည့် နယ်ပယ်ကို သတ်မှတ်၍		စာမျက်နှာ (၈ေ-၈၉) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။
		ဆန်းစစ်လေ့လာရမည် ဖြစ်သောကြောင့် ထိုသတ်မှတ်ထားသည့် ဧရိယာ		
		နေရာအား ဖော်ပြရန်၊		
	•	အဆိုပါသတ်မှတ်ထားသည့် ဧရိယာအတွင်း လူနေရပ်ကွက်များ၊ မြစ်ချောင်း	•	အခန်း (၄) အပိုင်း ၄.၁ Location and scale of the project
		များ၊ အခြားစီမံကိန်းများ၊ ဘာသာရေးနှင့် ယဉ်ကျေးမှုဆိုင်ရာ အခြေခံ		စာမျက်နှာ (၈၈-၈၉) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။
		အဆောက်အဦးများရှိပါက မြေပုံဖြင့်ဖော်ပြရန်။		
J۳	•	သက်ရောက်မှုများအား ခြုံငုံစွာ ဆန်းစစ်လေ့လာမည့် ဧရိယာကို ဖော်ပြပြီး	•	အခန်း (၄) အပိုင်း ၄.၁ Location and scale of the project
		အဆိုပါဖရိယာအတွင်း မြစ်ချောင်းများ ရှိမရှိ ဖော်ပြရန်နှင့် ရှိပါက Surface		စာမျက်နာ (ဓေ-ဓ၉) နှင့် အပိုင်း ၄.၇ surface water စာမျက်နာ

စဉ်	သုံးသပ်အကြံပြုချက်များ	သုံးသပ်အကြံပြုချက်များ
	 Water အရည်အသွေးကို တိုင်းတာဖော်ပြရန်၊ ပတ်ဝန်းကျင်လေအရည်အသွေးတိုင်းတာမှုရလဒ်တွင် Ozone အတွက် တိုင်းတာမှုရလဒ်ကို ဖြည့်စွက်ဖော်ပြရန်၊ ဆူညံသံတိုင်းတာမှုအား အနည်းဆုံးသုံးကြိမ်နှင့်အထက် ပြုလုပ်ရန်နှင့် တိုင်းတာသည့်နေရာများ၏ ကိုဩဒိနိတ်အမှတ်များနှင့် ဓါတ်ပုံအထောက် အထားများကို ဖော်ပြရန်။ 	(၉၈) အတွင် ထည့်သွင်းဖော်ပြထားပါသည်။ • အခန်း (၄) အပိုင်း ၄.၄ air quality - ဇယား ၄.၄ - စာမျက်နှာ (၉၂- ၉၃) အတွင် ထည့်သွင်းဖော်ပြထားပါသည်။ • အခန်း (၄) အပိုင်း ၄.၈ Noise environment စာမျက်နှာ (၉၈-၉၉) အတွင် ထည့်သွင်းဖော်ပြထားပါသည်။ ထို့ပြင် ၃ ကြိမ်နှင့် အထက် တိုင်းတာခြင်းအား အတည်ပြုချက်ရရှိပြီးနောက် monitoring ကာလ တွင် လုပ်ဆောင်သွားပါမည်။
(0)	ထိခိုက်မှုများအား သတ်မှတ်ဖော်ထုတ်ခြင်း၊ ဆန်းစစ်ခြင်းနှင့် လျော့နည်းစေရေး ခေ	
	 စီမံကိန်းလုပ်ငန်းဆောင်ရွက်ရာမှ ထွက်ရှိမည့် အစိုင်အခဲ စွန့်ပစ်ပစ္စည်းများ ၏ ပမာကကို အမျိုးအစားအလိုက် ခွဲခြားဖော်ပြရန်နှင့် သိုလှောင်ထားရှိမှု၊ နောက်ဆုံးစွန့်ပစ်သည့်နည်းလမ်း၊ တာဝန်ယူစွန့်ပစ်မည့် အဖွဲ့ အစည်းနှင့် အစီအစဉ်တို့ကို ဖော်ပြပေးရန်၊ စီမံကိန်းလုပ်ငန်းဆောင်ရွက်ရာမှ ထွက်ရှိမည့် Wastewater သန့်စင်မည့် နည်းစနစ်၊ ဒီဇိုင်း၊ အဆိုပါ သန့်စင်ပြီးနောက် ထွက်ရှိလာမည့် Wastewater အရည်အသွေးကို NEQEG နှင့်အညီ နိုင်းယှဉ်ဖော်ပြရန်၊ နောက်ဆုံး စွန့်ပစ်မည့်နေရာအား ကိုဩဒိနိတ်အမှတ်များဖြင့် ထည့်သွင်းဖော်ပြရန် ဆူညံသံထွက်ပေါ်နိုင်သည့် အရင်းအမြစ်များ (ဥပမာ- Generator, Air Compressor, Boiler, Raw Material Cutting, Bending, Rolling စသည်ဖြင့်) ကို ဖော်ပြရန်နှင့် လျှော့ချမည့် အစီအစဉ် (ဥပမာ-အသံလုံ 	 အခန်း (၃) အပိုင်း ၃.၁၄ Waste Disposing System အပိုင်းငယ် ၃.၁၄.၃ Solid Waste Disposing System စာမျက်နှာ (၈၆) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။ အခန်း (၃) အပိုင်း ၃.၁၄ Waste Disposing System အပိုင်းငယ် ၃.၁၄.၁ Storm Water စာမျက်နှာ (၈၁-၈၂) တွင် ထည့်သွင်း ဖော်ပြ ထားပါသည်။
((20)	ခန်းဖြင့် တည်ဆောက်မည်ဖြစ်ကြောင်း) ကို ဖြည့်စွက်ဖော်ပြရန်။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်	
ЭI	 ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်တွင် ထိခိုက်မှုလျော့ချမည့် လုပ်ငန်းများ၊ စောင့်ကြပ်ကြည့်ရှုခြင်းများအတွက် ဖော်ပြထားသော ရန်ပုံငွေနှင့် မလုံ 	• အခန်း (၆) အဝိုင်း ၆.၄ Environmental Monitoring Cost Estimate၊ စာမျက်နာ (၁၅၄) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။

စဉ်	သုံးသပ်အကြံပြုချက်များ	သုံးသပ်အကြံပြုချက်များ
	လောက်ပါက ထပ်မံကျခံသုံးစွဲမည်ဖြစ်ကြောင်း ဖြည့်စွက်ဖော်ပြရန်၊ • ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အတွက် တာဝန်ယူဆောင်ရွက်မည့် အဖွဲ့ အစည်းဖွဲ့စည်းထားရှိမှု၊ မူဝါဒ၊ အဖွဲ့ဝင်တစ်ဦးချင်း၏ တာဝန်ဝတ္တရားများကို	• အခန်း (၆) အပိုင်း ၆.၁ Environmental Management Team၊ ဇယား ၆.၁ စာမျက်နာ (၁၃၆ မှ ၁၃၇ ထိ) တွင် ဖော်ပြထားပါသည်။
	ဖော်ပြရန်၊ • စောင့်ကြပ်ကြည့်ရှုမည့် အစီအစဉ်တွင် လေအရည်အသွေးအတွက် NEQEG နှင့်အညီ စောင့်ကြပ်ကြည့်ရှုနိုင်ရန် ထပ်မံလိုအပ်သော PM10, PM2.5,	• အခန်း (၆) အပိုင်း ၆.၃ Environmental Monitoring Plan ဇယား ၆.၄ စာမျက်နှာ (၁၅၄ မှ ၁၅၅ ထိ) တွင် ဖော်ပြထားပါသည်။
	Ozone တို့ကို ဖြည့်စွက်ဖော်ပြရန်၊ • စက်ရုံလုပ်သားများ၏ လုပ်ငန်းခွင်ဘေးအန္တရာယ်ကင်းရှင်းရေးအတွက် စီမံ ဆောင်ရွက်ထားရှိမှုများ၊ အချိန်ပြည့် ကျန်းမာရေးစောင့်ရှောက်မှု ပေးနိုင်ရေး အစီအစဉ်များကို ဖော်ပြရန်၊	• အခန်း (၆) အပိုင်း ၆.၂ Environmental Management Plan၊ အပိုင်းငယ် ၆.၂.၁ စာမျက်နှာ (၁၄၆ မှ ၁၅၀) ထိ တွင် ဖော်ပြထားပါ သည်။
	• စက်ရုံလုပ်သားများ၏ Safety အတွက် လုပ်ငန်းခွင်နှင့် သက်ဆိုင်သည့် Safety Dress အသုံးပြုမှု အခြေအနေများကို ဖြည့်စွက်ဖော်ပြပေးရန်။	• အခန်း (၆) အဝိုင်း ၆.၂ Environmental Management Plan၊ အဝိုင်းငယ် ၆.၂.၁ စာမျက်နှာ (၁၄၆ မှ ၁၅ဂ) ထိတွင် ဖော်ပြထားပါ သည်။
(୭)	စီမံကိန်းကြောင့် ထိခိုက်ခံစားရသည့် ဒေသခံပြည်သူများအတွက် ဆောင်ရွက်ပေးမျ	ည့် ဇွံ့ဖြိုးရေးအစီအစဉ်
	 ထိခိုက်ခံစားရနိုင်သည့် ဒေသခံပြည်သူတို့၏ ရေရှည်လူမှုစီးပွားရေး ဖွံ့ဖြိုး တိုးတက်စေမှုအတွက် ဦးစားပေးဆောင်ရွက်သင့်သည့် လုပ်ငန်းများ အတွက် လုံလောက်သည့် ရန်ပုံငွေထူထောင်ခြင်းနှင့် လုပ်ငန်းများ ဖော်ဆောင်ပေးခြင်း တို့ကို ထည့်သွင်းဖော်ပြရန်။ 	• အခန်း(၆) အပိုင်း ၆.၇ Corporate Social Responsibilities (CSR) စာမျက်နှာ (၁၅၆) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။
(N)	အများပြည်သူနင့်တိုင်ပင်ဆွေးနွေးခြင်းနှင့် သတင်းအချက်ထုတ်ပြန်ခြင်း	
(୧၂)	အများပြည်သူနှင့်ဝိုင်ငံဆွေးနွေးရင်းနှင့် သံတင်းအခံရက်ထုတ်ပြန်ရြင်း • စီမံကိန်းဆိုင်ရာသတင်းအချက်အလက်များကို အများပြည်သူနှင့် လူမှု အဖွဲ့အစည်းများက သိရှိနိုင်ရန် ကြော်ငြာထားရှိသည့် အစီအစဉ်များကို ဖြည့်စွက်ဖော်ပြပေးရန်၊	• အခန်း (၈) အပိုင်း ၈.၂ Response for Comments and Suggestions စာမျက်နာ (၁၆၁) တွင် ထည့်သွင်းဖော်ပြထားပါသည်။
	• အများပြည်သူမှ စီမံကိန်းနှင့်ပတ်သက်၍ မကျေနပ်မှုများ၊ နစ်နာမှုများကို	• အခန်း (၈) အခန်း (၈) အပိုင်း ၈.၂ Response for Comments and

စဉ်	သုံးသပ်အကြံပြုချက်များ	သုံးသပ်အကြံပြုချက်များ
	တိုင်ကြားနိုင်စေရန်အတွက် လုပ်ငန်းစဉ်တစ်ခု အကောင်အထည်ဖော် ဆောင်ရွက်ရန်၊ • ထိုလုပ်ငန်းစဉ်တွင် ပါဝင်မည့် နစ်နာမှုတိုင်ကြားရေး အစီအစဉ်များ၊ တာဝန်ယူ ဖြေရှင်းမည့် အဖွဲ့ အစည်းများ၊ ဖြေရှင်းဆောင်ရွက်ရန် ကြာမြင့် မည့် အချိန်ကာလနှင့် တိုင်ကြားသူထံသို့ တုန့်ပြန်မည့် အစီအစဉ်များ စသည်တို့ကို အသေးစိတ် ထည့်သွင်းဖော်ပြရန်၊ • မကျေနပ်မှုများ၊ နစ်နာမှုများကို တိုင်ကြားရာတွင် တိုင်ကြားနိုင်မည့်နေရာ များကို အများပြည်သူ မြင်နိုင်မည့်၊ ထင်ရှားမည့် နေရာများတွင် ကြေညာ ထားရှိမည့် အစီအစဉ်များအား အစီရင်ခံစာတွင် ထည့်သွင်းဖော်ပြရန်။	Suggestions၊ ဇယား ၈.၂ စာမျက်နှာ (၁၆၁) တွင် ထည့်သွင်းဖော်ပြ ထားပါ သည်။
(ည)	အထွေထွေအကြံပြုချက်	
	 ပတ်ပန်းကျင်ထိနိုက်မှုဆိုင်ရာလုပ်ထုံးလုပ်နည်း အပိုဒ် ၃၇ အရ ကနဦး ပတ်ပန်းကျင်ဆန်းစစ်ခြင်းအစီရင်ခံစာ (IEE) Soft Copy ကို ပူးတွဲ တင်ပြ ရန်၊ ပတ်ပန်းကျင်ထိနိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာလုပ်ထုံးလုပ်နည်း၊အပိုဒ် ၃၄၊ ၃၅၊ ၃၆ ပါ IEE အစီရင်ခံစာတွင် ပါပင်ရမည့် Format အတိုင်း ခေါင်းစဉ်ကြီး၊ ခေါင်းစဉ်ခွဲများ၊ ဓာတ်ပုံများ၊ မြေပုံများ၊ နောက်ဆက်တွဲများ စနစ်တကျ ဖော်ပြရန် စီမံကိန်းအဆိုပြုသူမှ ပတ်ပန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၏ သုံးသပ်ချက် နှင့် အကြံပြုချက်များအား ပြန်လည်ရေးဆွဲတင်ပြရာတွင် ပြန်လည်ပြင်ဆင် ထားသည့် ဖြေကြားချက်များအား ပူးတွဲတင်ပြရာနှနှင့် အစီရင်ခံစာ၏ မည့် သည့်အပိုင်း၊ မည့်သည့်စာမျက်နာတွင် ရေးသားထား သည်ကို Comment Response Table ဖြင့် ဖော်ပြရန် 	• ညွှန်ကြားချက်အတိုင်း ဆောင်ရွက်ထားပါသည်။

SC Auto (Myanmar) Co., Ltd.

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SC Auto (Myanmar) Co., Ltd.

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"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

DOCUMENT CERTIFICATION AND DECLARATION

Green Myanmar Environmental Services Co., Ltd. has prepared this Initial Environmental Examination (IEE) report for "Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services" project. The undersigned certify that the particulars in this report are correct and true to the best of my knowledge.

I, (Managing Director of SC Auto (Myanmar) Co., Ltd.) as proponent of this project, do hereby solemnly affirm and declare that:

- Comply with all Myanmar laws, rules and regulations, including Special Economic Zone Law and Clauses 14 and 15 of the Environmental Conservation Law (2012),
- Ensure that legal and other obligations are incorporated in the designs, procedures and project controls,
- Communicate legal and other requirements to personnel and contractors accountable for compliance,
- Ensure all relevant legal and other requirements and associated documentation (e.g., licenses, permits, approval applications) are readily available on site to company personnel, contractors, subcontractors and consultants,
- Conduct a compliance audit at least annually and ensure there is a process in place to monitor on-going compliance with all legal and other requirements.
- Follow according to the Environmental Management Plan & Monitoring Plan.
- Prepare plans to prevent environmental and social damage when the factory is disclosure.
- Submit monitoring report regularly
- Follows company OHS policies

	K
Signature	:
Name	YIAN LEE :
Designation	PROJECT DIRECTOR

SC Auto (Myanmar) Company Limited

No 188/189, 10th Street, Yangon Industrial Zone, Mingalardon Township, Yangon Region, Myanmar Tel: 01- 9670928

Date:

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

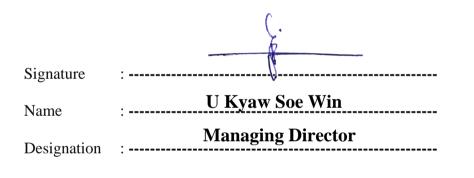
COMMITMENT AND ACKNOWLEDGEMENT

An Initial Environmental Examination (IEE) Report which includes Environmental Management Plan (EMP) is a procedure that identifies, describes, evaluates and develops means of mitigating potential impacts of a proposed activity on the environment.

This IEE report was prepared by using information from the following sources: review of selected literature, reports, and advisories; meetings with several interested parties; personal visitation with several persons; the experience of the IEE team; and other information solicited from baseline data and stakeholders. And we strongly commit that this report was prepared in compliance with Myanmar Environmental Laws and Regulations.

The IEE team is grateful to the project proponent – SC Auto (Myanmar) Company Limited - for commissioning us to conduct this IEE and EMP report in respect of the proposed project. We would like to further acknowledge with great appreciation all those neighbors who participated in the public consultation process for their cooperation throughout the exercise.

We further acknowledge the support, either direct or indirect, from the various parties who assisted the IEE team towards the successful completion of this report.





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Date: .27/2/2024.....

SC Auto (Myanmar) Co., Ltd.

ABBREVIATIONS

Al	Aluminum
NH ₃	Ammonia
BOD	Biological Oxygen Demand
CO_2	Carbon Dioxide
Co., Ltd.	Company Limited
CN	Cyanide
СО	Carbon Monoxide
COD	Chemical Oxygen Demand
cmol/kg	centi-mole per liter
m ³	cubic meter
CSR	Corporate Social Responsibility
dB	Decibel
°C	Degree Celsius
DPM	Diesel Particulate Matter
ECD	Environmental Conservation Department
EHS	Environmental Health and Safety
EIA	Environmental Impact Assessment
EM	Environmental Monitoring
EMP	Environmental Management Plan
EPA	Environmental Protective Agency
FRP	Fiber Reinforced Plastic
g/kg	gram per kilogram
GMES	Green Myanmar Environmental Services
HQ	Head Quarter
HSE	Health, Safety and Environment
IEE	Initial Environmental Examination
IFC	International Finance Corporation
ISO	International Standardization Organization
in	inches
IT	Information Technology
km	kilometer
Kph	kilometer per hour
kVA	kilovolt ampere
LTA	Lost time accident
M & E	Mechanical & Electrical

Green Myanmar Environmental Services Co., Ltd.

SC Auto (Myanmar) Co., Ltd.

MEPE	Myanmar Electric Power Enterprise
mg/kg	milligram per kilogram
$\mu g/m^3$	microgram per cubic-meter
mm	millimeter
Mn	Manganese
mmol/l	milli-mole per liter
m/s	meter per second
NEQG	National Environmental Quality (Emission) Guidelines
ppb	part per billion
PM	Particulate Meter
PM _{2.5}	Particulate Meter 2.5 microns diameter
PM_{10}	Particulate Meter 10 microns diameter
ppm	part per million
PVC	Poly Vinyl Chloride
RTM	Resin transfer molding
SO_2	Sulfur Dioxide
TDS	Total Dissolved Solid
UNDP	United Nation Development Programme
USA	United Stated of America
VEC	Valued Ecosystem Components
VOC	Volatile Organic Compound
WHO	World Health Organization
YCDC	Yangon City Development Committee
YTU	Yangon Technology University

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

EXECUTIVE SUMMARY

The GMES, Green Myanmar Environmental Services that is authorized third party of Ministry of Natural Resources and Environmental Conservation (MONREC) and registration number is 0006, has carried out this Initial Environmental Examination (IEE) in November 2017 for the proposed project of assembly and manufacture of buses and coaches, repair and maintenance services at the No 188/189,10th Street, Yangon Industrial Zone, Mingalardon Township, Yangon Region, the Republic of the Union of Myanmar. SC Auto (Myanmar) Company Limited which will invest US \$ 10.901 million on the proposed auto mobile project is 100% foreign investment, aiming to carrying out construction and operation of assembly and manufacture of automobile factory at the above-mentioned address.

	The Salient features of the projec	t are as below:				
1	Project Type:	Manufacturing and sales				
2	Name of the Project:	Manufacturing, Assembling and Sales of				
		buses/coaches, repair and maintenance services				
3	Location:					
	(a) Township	Mingalardon				
	(b) Region	Yangon				
	Latitudes	N 16° 56' 49.72"				
	Longitudes	E 096° 11' 41.72"				
4	Address for correspondence:	No 188/189, 10 th Street, Yangon Industrial Zone,				
		Mingalardon Township, Yangon Region				
5	Financial details:					
	Authorized Capital	US \$ 12,000,000				
	(b) Allocations made for	50 % of CSR Fund				
	environmental management plans					
6	Land area	4 acres (16,187.44 square meter)				
7	Land acquisition	Lease land				
8	Lessor	SCAI Yangon Limited				
9 10	Lease period	50 years (from 2019 to 2069) 7				
10	No. of buildings Period of project	50 years (Initial) + extendable (10) years two				
11	renou of project	times				
12	Period of construction	1 year and 6 months				
13	Estimated production per year	Local sales				
10	No. of car/ year	Year 4 unit 100				
		Year 5 unit 130				
		Year 6-10 unit 155				
		Export sales				
		Year 4 unit 100				
		Year 5 unit 130				
		Year 6-10 unit 155				
14	Water requirement & source	1,883 m ³ /year, underground water				
15	Source of electrical power	11/0.4 KV National Grid				
16	Auxiliary power	400 kVA Diesel Generator				

Salient Features of Project

. .

SC Auto (Myanmar) Co., Ltd.

17	Number of workers used	Year 1-2 Total 193 Year 3-4 Total 355
10	Number of working dove	Year 5-10 Total 416
18	Number of working days	Maximum 290 days/year

D	Task Name	Duration	Start	Finish	м	Half 2, 20	16 c	Ha	ilf 1, 2017	м	м	Half 2, 2017	c	N	Half 1, 2018
1	SC Auto Master Schedule	397 days?	Tue 8/16/16	Tue 2/20/18											i
2	Preliminary	323 days	Tue 8/16/16	Wed 11/8/17				_			_			1	
20	Substation	159 days	Thu 2/2/17	Mon 9/11/17							_				
142	Canteen	158 days	Wed 2/22/1	7Fri 9/29/17											
285	Factory 1	230 days	Wed 3/1/17	Tue 1/16/18					- E						┓
391	Fiber Building	176 days	Mon 3/20/1	7Mon 11/20/1						—					
495	Factory 2	217 days	Mon 3/20/1	7Tue 1/16/18						—					┓
593	Office	200 days	Mon 4/24/1	7Fri 1/26/18											- ∣
821	GUARD HOUSE & EXTERNAL WORKS	46 days	Mon 8/7/17	Mon 10/9/17											
831	Construct Underground Water Tank	80 days	Thu 8/10/17	Wed 11/29/1											
847	Construct Water Treatment Tank	64 days	Fri 9/1/17	Wed 11/29/1											
856	New Drainage / IC / Sump	25 days	Fri 10/6/17	Thu 11/9/17										1	
859	Construct Drive Way	45 days	Fri 10/6/17	Thu 12/7/17									<u>ا</u>		
861	Boundary Wall / Entrance Access	35 days	Fri 10/6/17	Thu 11/23/17											
863	Service Cable Installation	47 days	Fri 5/26/17	Mon 7/31/17											
870	Hydrant Pipe Installation	69 days	Fri 6/2/17	Wed 9/6/17									7		
877	Site Acceptance Test	115 days	Wed 8/23/1	7Tue 1/30/18											-
899	Integration Test	8 days	Wed 1/31/1	8Fri 2/9/18											п
904	Hand Over	7 days	Mon 2/12/1	ETue 2/20/18											п
906	Note : Above Schedule can change based on receiving date of Approved Drawing														

Figure (1): Construction Schedule

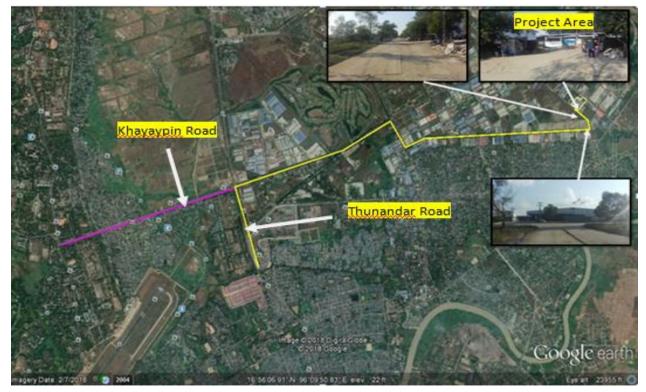


Figure (2): Factory Location

Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.



Figure (3): Google Map of Site Boundaries and Surrounding Environment

Factory Buildings Layouts Plan

Factory building layout is shown in following figure

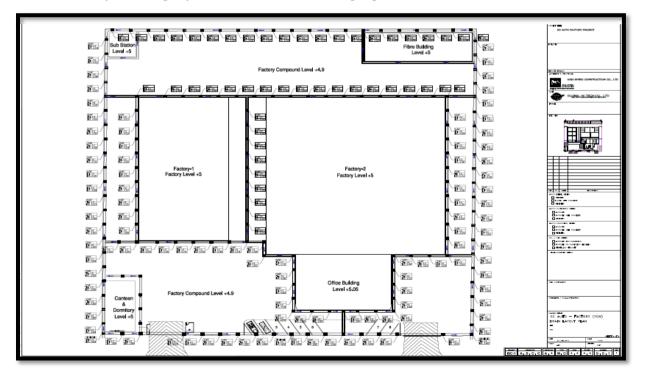


Figure (4): Factory Building Layout Plan

Man Power

Man power of factory is shown in following table.

Green Myanmar Environmental Services Co., Ltd.

Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

Table (7): List of Employees

	Description	Year 1-2	Year 3-4	Year 5-10					
No.	Loc	al							
	PRODUC	CTION							
1	Factory Manager	1	1	1					
2	Assistant Factory Manager	3	3	3					
3	Supervisor	5	24	25					
4	Team Leader	9	80	90					
5	Operator	83	155	200					
	Total	101	263	319					
	OFFICE & MANAGEMENT								
1	HR Staffs	3	3	3					
2	Purchasing staff	3	3	3					
3	Sales and marketing staff	7	7	8					
4	Translator staff	1	3	3					
5	Documentation	3	3	3					
6	Accountant	6	6	7					
7	Cleaning Clerk	2	2	2					
8	Kitchen staff	2	2	2					
9	Security guard	6	6	6					
10	Driver	3	3	4					
11	IT officer	2	2	2					
12	M&E officer	2	2	2					
13	General Manger	1	1	1					
	Total	41	41	44					
		1 II							
1	Ware House	8	8	8					
2	Engineer	20	20	22					
	Total	28	28	30					
1	Workshop								
2	Workshop Manager	1	1	1					
3	Workshop supervisor	4	4	4					
4	Technician	15	15	15					
5	Sales & Marketing	3	3	3					
	Total	23	23	23					
	Grand Total	193	355	416					
	Foreigne	r							
1	Supervisor	12	8						
2	Specialist	6	4	2					
-	Total	18	12	2					

Operating Schedule

The operating schedule for this project is based on single shift basis and maximum 290 working days in a year.

Working hours

8:00 am ~12:00 am; 1:00 noon ~ 4:30pm;

Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

Lunch break;	12:00 noon ~ 1:00pm;
Working days / week	5 days; Monday to Friday

Baseline Study

The current environmental and social conditions in and around the project area are shown in the following table. Field survey of air quality, water quality, soil quality, and noise, were conducted in and around the Project site. The other information on natural such as flora and fauna, cultural assets, and hydrology (topography) and social environment was collected through the literature survey and/or reconnaissance survey.

Туре	Description
I. Environment	
Topography, Geography, Geology, and Soil	Mingaladon is 144 ft above the sea level .In this town ship there are almost no streams or creeks, only one stream called Balar Chaung exist, flowing from north to south in only 12 miles and west from east in 8 miles. Draft, water depth of stream in rainy season is around 12 ft and 8 ft in summer, and therefore it cannot be used as waterway for transportation. There are no adverse geological conditions providing feasibility for the construction of factory building and no wetlands and no plantation of any kind of trees in and around the project area. Also there is no major conservation of wildlife in the area-
Climate	 Temperature Temperature profile is highest at 39 degrees Celsius and lowest at 15.5 °C. Reference from secondary data of Mingaladon Township from General Administration Department, here below is the temperature summary table for summer and winter Rainfall Yangon is supplied with an average of 2681 mm (105.6 in) of rainfall per year, or 223.4 mm (8.8 in) per month.
Flora, Fauna, and Biodiversity	No species near the project area.
Emergency Risk	Flood, cyclone, and earthquake are identified as notable natural hazards around the project area.
II. Social environmen	
Population Ethnicity	Area of Mingaladon Township is 128 km ² and density 2582/ km ² .Population of Mingaladon Township is 255,807 in 2014-2015. It was learnt that 93.00 % of the population is Bamar nationality,
	1.21 % is Rakhine, 1.48% is Karan, 0.63% is Mon and the rest are Chin, Kachin ,Kayar and Shan.
Religion	The majority of the religion is Buddhist (95.49%), and Christian (1.63%), Hindu (1.26%), Islam (1.62%) respectively.
Local Economy and Livelihood	Mingaladon Township is gradually developing. Residents enjoy their livelihood in agricultural, industrial, private and government service sectors. The Number (3) National High way Road is next to the Township. Residents could merchandise the goods produced from Industries nearby.
Hospitals and Health	For health-care facilities, 2 numbers of township level hospitals

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Services	with 50 and 100 beds, 25 Private clinics, and 5 Village tract health care centers are available. There are three military hospitals for military services ;Defense Services General Hospital (1000-bed), Defense Services Orthopaedic Hospital (500-Bed), Defense Services Obstetric, Gynaecological and Paediatric Hospital (500 beds). There is no cultural heritage site designated.
Cultural Heritage/ Assets III. Environmental Bas	
Air Quality	The monitoring survey of CO, NO2, NO, SO2, O3, PM2.5, and
An Quanty	PM10 for the ambient air quality was conducted in the Project site at December 2017 continuous 24 hours. The results of having guideline parameters were acceptable limits.
Water Quality	 Wastewater quality In order to monitor the wastewater quality, wastewater sample from municipal sewage drain located in front of the factory was taken. According to the test results, COD, BOD and total suspended solids (TSS) values of municipal drain water sample exceeded NEQG (Effluent) – General Application. All other parameters were within the desirable limits of NEQ. Ground water quality The ground water quality analyzed from the tube well located in the proposed project area can provide some indication of the water quality of the project area. According to the above table, total iron (Fe) value of tube well water sample exceeded the Drinking Water Standards. And then, turbidity value also exceeded the WHO (2011) and Indian Specification (IS: 10500, 2012), and manganese (Mn) value also exceeded the EPA (Spring 2012) and Indian Specification (IS:10500, 2012). All other parameters were within the desirable Drinking Water Standards.
Soil Quality	The surface soil sample was collected in front of the factory premise and ten parameters such as pH, Cl, Fe, As, CN, Al, Mn, P- Alkalinity, Total Alkalinity, Extractable Acidity were tested.
Noise Level	At that time, noise level was accepted limit.

Production Steps

SC Auto Bus Production Line

- Stage 1, Engineering Design
- Stage 2, Raw Material cutting, bending, rolling
- Stage 3, Parts Fabrication
- Stage 4, Structure Frames, Engine, Axles, Gearbox, etc... Assembly
- Stage 5, Body panel assembly & Interior Fittings
- Stage 6, Air Conditioner System & electrical wiring Installation
- Stage 7, Spray Painting
- Stage 8, Quality Control & Checking

Green Myanmar Environmental Services Co., Ltd.

SC Auto (Myanmar) Co., Ltd.

Activity	VEC	Impact	Duration	Magnitude	Extent	Туре	Probability	Significance
	•	·	Constr	uction Phase				
Soil and land leveling	Air Quality	Increased air emissions (dust and exhaust emission)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MODERATE
	Geomorphology and Landscape	Geomorphologic changes and visual impact	PERMANENT	SMALL	LOCAL	DIRECT	25-75%	MODERATE
	Terrestrial Ecology and Biodiversity	Effect on flora and fauna	PERMANENT	MODERATE	LOCAL	DIRECT	25-75%	MODERATE
	Socio-Economic Activities	Increased economic activity	MEDIUM	SMALL	LOCAL	DIRECT	25-75%	POSITIVE
	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Construction of access roads	Air Quality	Increased air emissions (dust and exhaust emission)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Geomorphology and Landscape	Geomorphologic changes and visual impact	PERMANENT	SMALL	LOCAL	DIRECT	25-75%	MODERATE
	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Socio-Economic Activities	Local employment prospects	MEDIUM	SMALL	LOCAL	DIRECT	25-75%	POSITIVE
Purchase of supplies and services	Air Quality	Increased air emissions (dust and exhaust emission)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Human resource	Socio-economic activities	Local employment prospects	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE
Workers' Temporary Accommodat	Water resources and sewage	Potable water use and sewage disposal	MEDIUM	MODERATE	LOCAL	DIRECT	25-75%	MINOR
ion	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE

Summary of Significant Environmental Impacts and Mitigation Measures

SC Auto (Myanmar) Co., Ltd.

Excavation, foundation, building	Air quality	Increased air emissions (exhaust, dust etc)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
works and mechanical erection	Geomorphology and landscape	Visual impact due to construction activities	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	REGIONAL	DIRECT	>75%	POSITIVE
	Noise Pollution	Increased noise levels	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Use of vehicles and construction	Air quality	Increased air emissions (exhaust, dust etc)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
equipment	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE
Construction of	Biodiversity	Degradation of ecosystem	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
infrastructure	Noise Pollution	Increased noise levels	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE
Waste disposal	Groundwater quality	Leaching of waste into aquifer	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
•	Community health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
			Oner	ation Phase				
1) Stage 1, Engineering Design	-	-	Oper 	-	-	-	-	-
2) Stage 2,	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Raw Material cutting, bending,	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE

rolling								
3) Stage 3,	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Parts Fabrication	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
4) Stage 4,	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Structure Frames Assembly	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
5) Stage 5, Body panel assembly & Interior Fittings	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
6) Stage 6, Air Conditioner System & electrical wiring Installation	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
7) Stage 7,	Air quality	VOC	LONG	MODERATE	LOCAL	DIRECT	<25%	MODERATE
Spray Painting	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
8) Stage 8, Quality Control & Checking	-	-	-	-	-	-	-	-
Solid Waste disposal	Ground water quality	Leaching of waste into aquifer	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
_	Community health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

			Decom	nission Phase				
Waste	Groundwater quality	Leaching of waste into aquifer	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
Disposal	Community health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
Dismantling	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
infrastructure	Socio-Economic Activities	Local employment prospects	MEDIUM	SMALL	LOCAL	DIRECT	25-75%	POSITIVE

SC Auto (Myanmar)	Co., Ltd.
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The generic environmental measures that need to be undertaken during project construction, operation and decommission phases are important. Environmental Management Plan (EMP) for this three stages are as follow.

Project / Activity Phase (Potential Environmental Impact)	Objectives	Mitigating & Enhancement Measures	Estimated Cost of Proposed Measures (USD)	Responsible Person / Unit
		Construction Phase		
Soil disturbance/erosion	To lessen soil disturbance and prevent soil erosion due to construction activities	 Control earthworks and compact loose soils Install drainage structure properly Landscaping on project completion Control and mange excavation activities Control activities during rainy conditions Provide soil erosion control and conservation structures/means where necessary To the greatest extent possible, phase site clearance so as to minimize the area of exposed soil at any given time Re-cover exposed soils with grass and other appropriate species as soon as possible. Temporarily bund exposed soil and redirect flows from heavy runoff areas that threaten to erode or result in substantial surface runoff to adjacent drain 	No extra cost	SC Auto and construction contractor

Environmental Management Plan

Noise	To ensure cumulative noise impacts are acceptable	 waters Monitor areas of exposed soil during periods of heavy rainfall throughout the construction phase Construction activities that will generate disturbing sounds should be restricted to normal working hours. Workers operating equipment that generates noise should be equipped with noise protection gear. Workers operating equipment generating noise levels greater than 80 dBA continuously for 8 hours or more should use earmuffs. Workers experiencing prolonged noise levels of 70 – 80 dBA should wear earplugs. 	No extra cost	Contractor
Air Pollution (nuisance dust)	To minimize dust effectively and avoid complaint due to the air borne particulate matter release to the atmosphere	 Spray water during the construction phase of excavated areas during dry conditions Control speed and operation of construction vehicles Prohibit idling of vehicles Ensure sound condition of construction machinery and equipment Workers on the site should be issued with dust masks during dry and windy conditions. 	No extra cost	Contractor
Material transportation	To reduce dust/noise/waste generation and avoid spillage during transportation	 All fine earth materials must be enclosed during transportation to the site to prevent spillage and dusting. Trucks used for that purpose should be fitted with tailgates that close properly and with tarpaulins to cover the materials. The cleanup of spilled earth and construction material on the main roads should be the responsibility of the Contractor and should be done in a timely manner (say within 2 hours) so as not to inconvenience or endanger other 	No extra cost	Contractor

		 road users. These requirements should be included as clauses within the contracts made with relevant sub-contractors. The transportation of lubricants and fuel to the construction site should only be done in the appropriate vehicles and containers, i.e. fuel tankers and sealed drums. As far as possible, transport of construction materials should be exit the project site 		
Material storage	To ensure proper storage of material and avoid accidental spillage	 The stockpiling of construction materials should be properly controlled and managed. Fine grained materials (sand, marl, etc.) should be stockpiled away from surface drainage channels and features. Low berms should be placed around the piles and/or tarpaulin used to cover open piles of stored materials to prevent them from being washed away during rainfall Safe storage areas should be identified and retaining structures put in place prior to the arrival and placement of material. Hazardous chemicals (e.g. fuels) should be properly stored in appropriate containers and these should be safely locked away. handling facilities 	No extra cost	Contractor
Sewage and litter management	To prevent soil/water contamination due to grey water discharge and overload or spillage of temporary septic tanks	 Install proper sewage treatment plant Proper solid waste receptacles and storage containers should be provided in sufficient numbers, particularly for the disposal of lunch boxes and drinking bottles, so as to prevent littering on the site Arrangements should be made for the regular collection of litter and for its disposal only at the dump site. 	No extra cost	Contractor

Construction waste disposal	To ensure adequate disposal options for all kinds of construction waste including glass, metal, wood, cement residues, plastic, paper based wastes, oil spills etc.	 Waste collection, segregation and disposal should be properly managed and contact to Mingaladon Township Municipality for final disposal. Special attention should be given to minimizing and reducing the quantities of solid waste produced during site preparation and construction. To reduce organic waste, softer vegetation may be composted onsite and used for soil amendment during landscaping. Reusable inorganic waste (e.g. excavated soil) should be stockpiled away from drainage features and used for in filling where necessary. Unusable construction waste, such as damaged pipes, formwork and other construction material, must be disposed of at Mingaladon Township Municipality dumpsite. 	No extra cost	Contractor
Accident/ Injury/ Health Hazard	To minimize potential accidents/injuries and disease	 Proper personal protective equipment i.e. safety shoes, helmet, goggles, and gloves shall be used at all times on site Use barriers and guards as necessary to protect employees from physical hazards, Signage danger warning or CAUTION will be put at strategic places Development of occupational safety and health guidance plans Provide first aid kits and contact points in case of injury and accidents From a safety and health committee to coordinate safety and health issues at workplace Provide regular safety awareness talks and trainings 	No extra cost	Contractor

SC Auto (Myanmar) Co., Ltd.

		Operation Phase		
Noise and vibration pollution	To ensure noise and vibration pollution effect on surrounding should be under the threshold limit by emission guide line.	 Conduct a noise survey and mark out dedicated areas with signage where there are elevated noise levels and PPE is required. Enclose noisy machines to isolate people from the noise where practicable. Reduce vibration exposure times and provide PPE where people may be exposed to vibration. Limit scrap handling and transport during unsocial hours to reduce noise. 	Under EMP budget	HSE officer of SC Auto factory
Waste water	To minimize affect local ecology as well as posing a hazard to drinking water supplies and contaminating land.	 Minimize the consumption of water used in production processes and equipment cleaning. Consider upgrades to wastewater treatment facilities. Recycle wastewater where possible, e.g. certain solvent wastes such as gun wash can be sent for recovery and reuse in another application where these facilities are available Ensure untreated wastewater does not discharge to watercourses through use of wastewater treatment facilities and monitoring of wastewater discharges 	Under EMP budget	HSE officer of SC Auto factory
Solid wastes	To prevent ground contamination due to improper solid waste management.	 Define waste management plan. Contact certified waste collector, DOWA for waste disposal Return packaging of hazardous and non-hazardous materials (wherever possible), such as empty drums, to supplier for reuse. Recycle packaging wherever possible. Develop and implement a waste management plan covering all aspects of waste treatment on site. Wherever possible, priority should be given to 	Under approved EMP budget for waste management	HSE officer of SC Auto factory

		reduction of wastes generated, and recovery and re- use of raw materials		
		Occupational Health and Safety		
Chemical exposure	To ensure safe working condition for workers	 Provide personal protective equipment (PPE) that is fit for the task to prevent injury and maintain hygiene standards. Train staff in the correct selection, use and maintenance of PPE, and put in place measures to encourage/ mandate its use. Implement a program of assessment of routine monitoring of worker health. 	Under approved budget for HSE management plan for PPE	HSE officer of SC Auto factory
Noise and vibration	To ensure noise level should under the threshold limit with exposure limit	 Enclose noisy machines to isolate people from the noise where practicable. Reduce vibration exposure times and provide PPE where people may be exposed to vibration. Limit scrap handling and transport during unsocial hours to reduce noise. 	Under approved budget for HSE management plan for PPE	HSE officer of SC Auto factory
Machinery	To meet HSE objective of no LTA(Lost time accident)	 Train staff in correct selection, use and maintenance of PPE. Train workers in correct use of machinery and safety devices. Avoid direct handling of sharp edged items and/or remove sharp edges by machining. Engineer out sharp edges and access to dangerous parts of machinery through a hierarchy of controls (permanently fixed physical barrier, interlocked physical barrier, physical barrier, presence sensing system). 	SC Auto Management should define HSE objective SC Auto Management should define Incentive for HSE bonus.	HSE officer of SC Auto factory
Manual handling and repetitive work	To meet HSE objective of no LTA(Lost time accident)	Ensure that walkways are constructed of non-slip materials and route cables and pipe-work under walkways.	SC Auto Management should define HSE objective	HSE officer of SC Auto factory

			SC Auto Management should define Incentive for HSE bonus	
Working Condition	To meet HSE objective of no LTA(Lost time accident) due to fatigue condition of overload	 Implement a program of routine monitoring of worker health. Implement a grievance/dispute resolution mechanism for workers. 	SC Auto Management should define HSE objective SC Auto Management should define Incentive for HSE bonus.	HSE officer of SC Auto factory
	-	Decommissioning Phase		
Waste disposal due to dismantling activities	To minimize generation of scraps and other debris on sites	 Use of an integrated solid waste management system i.e. through a hierarchy of options: Wastes generated as a result of facility decommissioning activities will be characterized in compliance with standard waste management procedures. All buildings, machinery, equipment, structures and tools that will not be used for other purposes should be removed and recycled/ reused say in other projects Where recycling/reuse of the machinery, equipment, implements, structures, tools and other waste is not possible, the materials should be disposed to approved dumpsites To contact Mingaladon Township Municipality for final waste disposal. 	1,000	Contractor

Ground water pollution due	To prevent	• procedures for finding contaminated material	2,000	SC Auto
to dismantling activities	potential pollution	during excavations will be established		
6		• covering and damping of excavated materials		
		• appropriate storage of contaminated material if		
		found.		
		Ground contamination and storm water		
		contamination will be limited on site by proper		
		handling and storage of materials and equipment.		
Rehabilitation of project	To ensure less	• Implement an appropriate re-vegetation program to	2,000	SC Auto
site	vegetation	restore the site to its original status		
	disturbance, land	• During the re-vegetation period, appropriate surface		
	deformation and	water run off controls will be taken to prevent		
	restoration of site	surface erosion;		
		• Monitoring and inspection of the area for indications of erosion will be conducted and		
		appropriate measures taken to correct any		
		occurrences;		
		 Fencing and signs restricting access will be posted 		
		to minimize disturbance to newly-vegetated areas;		
		• Scoop out any contaminated soils and replace with		
		uncontaminated soil from another source		
		Comprehensive Landscaping.		
Health and safety impacts	To avoid potential	• The safety of the workers should surpass as a	1,000	Contractor
	occupational	priority of all other objectives in the		
	hazards	decommissioning project		
		Provide appropriate Personal Protective Equipment		
		(PPE) as necessary.		
		• Staircases and other hazardous areas shall be		
		suitably protected say using strong rails to avoid		
		occurrence of incidences		
		Provide emergency health care and sanitation to		

		 employees. Ensure sufficient emergency firefighting tools (fire extinguishers, hooks, buckets and water tanks) are standby at demolishing site 		
Socio-economic impacts	To prevent loss of income, quality of life and benefits such as medical, insurance cover etc	 Assist with re-employment and job seeking of the involved workforce. Compensate and suitably recommend the workers to help in seeking opportunities elsewhere. Offer advice and counseling on issues such as financial matters. Ensure assistance with re-employment and job seeking of the involved workforce. Make sure to compensate and suitably recommend the workers to help in seeking opportunities elsewhere. Offer advice and counseling on issues such as financial matters. 	2,000	SC Auto

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Environmental Monitoring Plan

A centralized environmental monitoring cell will be established for monitoring of important and crucial environmental parameters which are of immense importance to assess the status of environment during plant operation. With the knowledge of baseline conditions, the monitoring program can serve as an indicator for any deterioration in environmental conditions due to operation of the industry, and helps in planning suitable steps that could be taken in time to safeguard the environment. Monitoring is as important as that of control of pollution since the efficiency of control measures can only be deterred by monitoring. The following routine monitoring program will be implemented by following the IEE report.

Environmental monitoring schedules are prepared covering various phases of project advancement, such as constructional phase, regular operational phase and closing phase.

Environmental Parameters	Monitoring Item	Location	Frequency	Responsibilities
i ui uiiiettei 5	Construction Pha	se/ Decommiss	ioning Phase	
Air quality	• PM ₁₀ , PM _{2.5} , Ozone,, VOC, CO, CO ₂ , NO ₂ , SO ₂	Construction / Closing site	Once during construction period	Construction Contractor
	 Recorded the machineries maintenance Recorded dust emission activities Recorded traffic 	Construction / Closing site	Monthly	Construction supervisor
Soil quality	 Chemical and toxic material emission/ leakage status from storage area Other possible leakage of chemicals due to the vehicular movement and bitumen mixing 	Construction/ Closing site	Monthly	Construction Contractor
Water quality	Checking temporary septic tank and disposed system, temporary drain	Construction/ Closing site	Monthly	Construction Contractor
Water Use	• Daily amount of water use	Construction/ Closing site	Daily Observation	Construction Contractor
Noise	• Intensity measurement	Construction/ Closing site	Monthly	Construction Contractor

		1		1
Waste Disposal	 Recorded disposal amount of solid wastes and sewage of the workers Checking the waste storage area Recorded 	Areas around workers quarters Construction/	Daily Observation Weekly	Construction Contractor
	 disposal amount of construction wastes, compliance with the disposal requirements Separate hazardous and No-hazardous Checking the waste storage area 	Closing site		
Employment	Number of people employed	Construction/ Closing site	Monthly	Construction Contractor
Other Social Considerations	CSR activities record	Monitoring team	Monthly	Construction Contractor
Occupational Health and Safety	Safety activities, Record of accident and OHS training and activities, Record of worker argument and conflict	Workers	Monthly	Safety Supervisor
Community Health and Safety	Record of accident and OHS training and activities, Recorded of training for driver and worker	Local residents	Upon conditions	Safety Supervisor
Emergency risk	Accident record, safety, training	Construction/ Closing site	Monthly	Safety Supervisor
Operation Phase Air Quality	PM ₁₀ , PM _{2.5} , Ozone,, VOC, CO, CO ₂ , NO ₂ , SO ₂	Ambient air	Annual	Factory Manager and HSE officer
	Particulate matters, VOC	Workplaces such as painting area,	Annual	Factory Manager and HSE officer

				(Myannar) Co., Etu.
	Generator exhaust	w are house, car parts assembling area Stack	Annual	Factory Manager and
	gas (CO, CO2, NO2, SO2)			HSE officer
Water Quality	• Wastewater (pH, oil & grease, suspended solid, BOD, COD, color and Temperature, etc	Municipal drain and factory drain outlet	Bi-annual	Factory Manager and HSE officer
	• Ground water (pH, Arsenic, Cl ⁻)	Water reservoir	Bi-annual	Factory Manager and HSE officer
Waste Disposal	 Recorded disposal amount of plastic, drum, paper box, used wedding rock Check collection system Check storage Separation of waste type (Hazardous & No-hazardous) 	Plant premises	Monthly	Factory Manager and HSE officer
Soil Contamination	 Oil leakage, Spill of solvent, Paint Measuring heavy metal 	Plant premises, paint storage area, fuel storage area, generator room,	Annual	Factory Manager and HSE officer
Noise and Vibration	Noise & Vibration level	 Plant premises workplace s area such as painting area, w are house, car parts assemblin g area 	Annually and upon complaint	Factory Manager and HSE officer
Odor	Inspection of ventilation	Factory and storage	Monthly	Factory Manager and HSE officer

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	condition	buildings		
Hazardous and Chemical Substance	 Check handling and using of paint, reinforced fiber Check storage area Check disposal system 	Factory and storage buildings	Monthly	Factory Manager and HSE officer
Occupational Health and Safety	 Record of accident and record of occupation/ safety training, Each employee medical checkup record. Checking PPE and Provide adequate PPE Provide OHS training 	Plant premises	Bi-annual	HSE officer
Other Social Considerations	Check and Record CSR plan and job opportunities	Monitoring team	Annual	HR Manger
Emergency Risks	 Record of emergency case of accident and its response plan Checking Firefighting equipment Provide fire drill and training 	Plant premise	Annual	HSE officer
Transboundary or Global issues	N/A	-	-	-

Public Consultation

Public Consultation Meeting (PCM) and Public Disclosure (PD) for IEE will be planned in order to collect opinions and feedback of the public and to disseminate information on the IEE study of the project.

Public Consultation Meeting

There are two ways of discussion, one way is participants can involve themselves in public consultation meeting and another way is by writing suggestions on distributed suggestion form.

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

Meeting attendees were encouraged to ask questions and give comments during and after the presentation. Comment forms were available at each meeting for attendees to write comments at the time of the meeting.

On June 18th 2018 at Supervise and Administrative office of ZayKabar Company Limited, Thingangyun Gyi village group, Mingalardone Industrial Park, Mingalardone Township, Yangon Region the public meeting for disseminating project information to general public including stakeholder and requesting (22) suggestions letter on the project was carried out (23) participants from local community attended the public meeting and participated in open discussion.

The main points of discussion, questions and answers were mentioned in the following table.

	Suggestions and Discussions	Commitment
1	To take noise control due to outcome from the assembling, repair and maintenance services	We are performing to mitigate Noise level, usage of quiet, properly maintained equipment or machinery in good condition
2	Need to take dispose wastewater systematically at the workplace	To follow National Standard Guideline according to Environmental Management Plan
3	Ensure to take drainage system, dispose wastewater systematically from the factory	We will submit to Industrial Zone Management Committee for keeping of drainage system and dispose wastewater system
4	To provide PPE, Educational, Health and safety to employees	We provided PPE to workers
5	To conserve and prevent to the environment, not to polluting Ambient Air quality and noise	To follow National Standard Guideline according to Environmental Management Plan
6	To provide allowances, benefits, Health and cheerfulness of the workers	We will provide to employees according to the Ministry of Labor Department
7	The person who should be inspect to the factory from GMES Co., Ltd., bi-monthly or quarterly	We will take for Environmental Monitoring according to the Environmental Management Plan
8	It is need to take Air ventilation system due to Automotive paint can be disperse if it was sprayed to the car	We will perform special close type room for not dispersing automotive paint to the environment. We will perform dust controller We will provide PPE to workers
9	Ensure to keep drainage system for the surrounding of the factory	We will take good drainage system submit to Industrial Zone Management Committee

Corporate Social Responsibility (CSR)

Corporate Social Responsibility (CSR) is now an important factor in company's project operation. SC Auto (Myanmar) Co., Ltd has 1 % of an annual profit as a Corporate

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Social Responsibility budget and is formulated annually as part of the Company's annual strategic planning processes.

Conclusions

It is predicted that socio-economic impact due to this project will positively increase the chance of more employment opportunities for local inhabitants. There are no Resettlement and Rehabilitation issues involved in this project. The project infrastructures shall be of use to people of the area. The revenue of the State Govt. shall be definitely increasing due to the proposed project category. The entire project area is devoid of any endangered flora and fauna. Thus the proposed project is not likely to affect the environment or adjacent ecosystem adversely. And then, SC Auto bus assembly factory has installed effective pollution system for air and soil pollution

The assessment has concluded that, with the full adoption of the mitigation measures stated in this report and implementation of the IEE and EMP during the construction , operational and decommission periods, the manufacturing facility should have no significant negative impacts. The facility will also bring a number of socio-economic benefits to the area and the region in general.

The implementation of the project will provide significant contribution to uplift the socio-economic condition of local people. Though the impact zone, affected people and most of the adverse impacts identified and evaluated by the IEE study are of substantial, they can be minimized through the implementation of mitigation measures.

Based on the analysis of benefits and assessments of implementing mitigation measures, the proposal is very relevant for implementation.

အနှစ်ချုပ်အစီရင်ခံစာ

စိမ်းလန်းမြန်မာပတ်ဝန်းကျင်ဆိုင်ရာဝန်ဆောင်လုပ်ငန်းကုမ္ပကီလီမိတက်အနေဖြင့် ကနဦးပတ်ဝန်း ကျင်ဆန်းစစ်ခြင်းအစီရင်ခံစာကို ခရီးသည်တင်မော်တော်ယာဉ်နှင့်အဝေးပြေးဘတ်(စ်)ကားများကို တပ်ဆင် ခြင်း၊ ထုတ်လုပ်ခြင်းနှင့် ပြုပြင်ထိန်းသိမ်းရေးလုပ်ငန်း၏ SC Auto Company အတွက် ရေးဆွဲခဲ့ပါသည်။ SC Auto Company သည် အမှတ် (၁၈၈/၁၈၉)၊ ၁၀ လမ်း၊ ရန်ကုန်စက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်တွင် တည်ရှိ ပါ သည်။ ကုမ္ပကီသည် နိုင်ငံခြားရင်းနှီးမြှပ်နှံမှု အမေရိကန် ဒေါ်လာ ၇,၀၉၀,၁၆၅ သန်း စိုက်ထုတ်ခြင်း စက်ရုံ တည်ဆောက်ရေးနှင့် လည်ပတ်ရေးအတွက် ဆောင်ရွက်ပါသည်။

စီမံကိန်းအမျိုးအစား	ကုန်ထုတ်လုပ်ခြင်းနှင့်ဖြန့် ဖြူးရောင်းချခြင်း
စီမံကိန်းအမည်	ထုတ်လုပ်တပ်ဆင်ခြင်း၊ရောင်းချခြင်းနှင့်ပြုပြင်ထိန်းသိမ်းရေးဝန်ဆောင်မှု
	လုပ်ငန်း
တည်နေရာ	အကွက် ၁၈၈/၁၈၉၊(၁၀)လမ်း၊ ရန်ကုန်စက်မှုဇုန်၊ မင်္ဂလာဒုံ မြို့နယ်၊
	ရန်ကုန်တိုင်းဒေသကြီး။
ဘဏ္ဍာရေးအနေအထား	
မတည်ရင်းနီးငွေ	အမေရိကန်ဒေါ် လာ ၁၂၀,၀၀၀
ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးရံပုံငွေ	ကုမ္ပဏီအမြတ်၏ ၁ %
မြေအကျယ်အဝန်း	၄ ဖက (၁၆၁၈၇.၁၄၄ စတုရန်းမီတာ)
မြေပိုင်ဆိုင်မှု	အငှားမြေ
ငှားရမ်းသူ	ဦးယုရှင်
အဆောက်အဦးအရေအတွက်	2
စီမံကိန်းကာလ	နှစ် (၅ဂ) မူလနှင့် ၁ဂ နှစ် တိုးချဲ့ခွင့် ၂ ကြိမ်
ရေသုံးစွဲမှုအခြေအနေ	၁၈၈၃ ကုဗမီတာ တစ်နှစ်
	မြေအောက်ရေ
လျှပ်စစ်သုံးစွဲမှု	၁ ე/ი.ç kw
	နိုင်ငံတော် လျှပ်စစ်ဓါတ်အားလိုင်း
အရံလျှပ်စစ်ထုတ်စက်	၄၀၀ kwA ဒီဇယ်
	အင်ဂျင်မီးစက်
ဝန်ထမ်းဦးရေ	ပထမနစ် ၂၃
	ဒုတိယနှစ် ၂၉
	တတိယနစ် ၂၉
	စတုတ္ထနစ် ၂၉
တစ်နှစ်တာ အလုပ်ဆင်းရက်	၂၉၀ ရက်ပေါင်း
စီမံကိန်းကွင်းဆင်းလေ့လာနေ့စွဲ	၁၉.၁၁.၂၀၁၇

စီမံကိန်းဆိုင်ရာသတင်းအချက်အလက်များ

ID	Task Name	Duration	Start	Finish												-
ID	I dok Tvdnie	Duration	Statt	rinish	М	Half 2, 201	16 S	N	Half 1, 2017	м	М	Half 2, 2017 J	s	N	Half 1, 2018	
1	SC Auto Master Schedule	397 days?	Tue 8/16/16	Tue 2/20/18											-	
2	Preliminary	323 days	Tue 8/16/16	Wed 11/8/17			·	 						1		
20	Substation	159 days	Thu 2/2/17	Mon 9/11/17							_	_				
142	Canteen	158 days	Wed 2/22/1	7Fri 9/29/17												
285	Factory 1	230 days	Wed 3/1/17	Tue 1/16/18					E F						-	
391	Fiber Building	176 days	Mon 3/20/1	7Mon 11/20/1						—						
495	Factory 2	217 days		Tue 1/16/18						r—					-	
593	Office	200 days	Mon 4/24/1	7Fri 1/26/18												
821	GUARD HOUSE & EXTERNAL WORKS	46 days	Mon 8/7/17	Mon 10/9/17												
831	Construct Underground Water Tank	80 days	Thu 8/10/17	Wed 11/29/1												
847	Construct Water Treatment Tank	64 days	Fri 9/1/17	Wed 11/29/1								I				
856	New Drainage / IC / Sump	25 days	Fri 10/6/17	Thu 11/9/17										1		
859	Construct Drive Way	45 days	Fri 10/6/17	Thu 12/7/17									*			
861	Boundary Wall / Entrance Access	35 days		Thu 11/23/17												
863	Service Cable Installation	47 days	Fri 5/26/17	Mon 7/31/17							-					
870	Hydrant Pipe Installation	69 days	Fri 6/2/17	Wed 9/6/17									1			
877	Site Acceptance Test	115 days	Wed 8/23/1	7Tue 1/30/18								Г				
899	Integration Test	8 days	Wed 1/31/1	EFri 2/9/18											п	
904	Hand Over	7 days	Mon 2/12/1	ETue 2/20/18											п	
906	Note : Above Schedule can change based on receiving date of Approved Drawing															

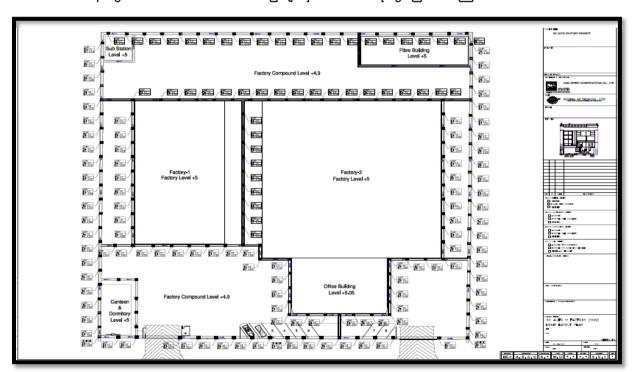


"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.



စီမံကိန်းပုံစံ



စိမံကိန်းတွင်ပါဂင်သောအဆောက်အဦးများမှာအောက်ပါပုံတွင်ဖြစ်ပါသည်။

SC Auto (Myanmar) Co., Ltd.

ဇယား (၂)။ ဂန်ထမ်းအင်အားစာရင်း

	ဖော်ပြချက်	နှစ် ၁ မှ ၂	နှစ် ၃ မှ ၄	နှစ် ၅ မှ ၁ဂ					
စဉ်	ပြည်တွင်	းလုပ်သား							
	ထုတ်လုပ်ရေး								
С	စက်ရုံမန်နေဂျာ	1	1	1					
J	လက်ထောက်စက်ရုံမန်နေဂျာ	3	3	3					
9	ကြီးကြပ်ချေးမှူး	5	24	25					
9	အဖွဲ့ခေါင်းေဆာင်	9	80	90					
ງ	လုပ်သား	83	155	200					
	စုစုပေါင်း	101	263	319					
		င့် စီမံခန့်ခွဲမှု							
Э	HR ဂန်ထမ်း	3	3	3					
J	အဂယ်တော်ဂန်ထမ်း	3	3	3					
9	အရောင်းမြင့်တင်ရေးဂန်ထမ်း	7	7	8					
9	စကားပြန်ပန်ထမ်း	1	3	3					
၅	စားရင်းဇယားထိန်းပန်ထမ်း	3	3	3					
િ	ငွေစာရင်းကိုင်	6	6	7					
γ	သန့်ရှင်းရေးဂန်ထမ်း	2	2	2					
ଚ	စားဖိုဆောင်ပန်ထမ်း	2	2	2					
၉	လုံခြုံဝရး	6	6	6					
၁၀	ယာဉ်မောင်း	3	3	4					
၁၁	IT အရာရှိ	2	2	2					
၁၂	M&E အရာရှိ	2	2	2					
၁၃	အထွေထွေမန်နေဂျာ	1	1	1					
	စုစုပေါင်း	41	41	44					
С	ပစ္စည်းထိန်း	8	8	8					
J	အင်ဂျင်နီယာ	20	20	22					
	စုစုပေါင်း	28	28	30					
С	ပြင်ထိန်းဂန်ထမ်း								
J	ပြင်ထိန်းမန်နေဂျာ	1	1	1					
9	ပြင်ထိန်းကြီးကြပ်ရေးမှူး	4	4	4					
9	ပညာရှင်	15	15	15					
ງ	အရောင်းမြင့်တင်ရေး	3	3	3					
	စုစုပေါင်း	23	23	23					
	ဌာနအားလုံးပေါင်းဦးရေ	193	355	416					

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	နိုင်ငံခြားသားပန်ထမ်း							
э	ကြီးကြပ်ချေးမှူး	12	8					
J	ပညာရှင်	6	4	2				
	စုစုပေါင်း	18	12	2				

စက်ရုံလည်ပတ်ရေးအချိန်ဇယား

စက်ရုံလည်ပတ်ရေးအချိန်ဇယားသည် အလုပ်ချိန် ၈ နာရီ တစ်ဆိုင်းဖြစ်ပြီး တစ်နှစ်တွင် အလုပ် လုပ်ရက် ပေါင်း ၂၉၀ ရှိပါသည်။

အလုပ်လုပ်ချိန်	မနက် ရးဂဂ မှ နေ့လည် ၁၂းဂဂ၊ နေ့လည် ၁းဂဂ မှ ညနေ ၄း၃ဂ
ထမင်းစားနားချိန်	နေ့လည် ၁၂းဂဂ မှ နေ့လည် ၁းဂဂ
တစ်ပတ်အလုပ်လုပ်ရက်	၅ ရက်၊ တနင်္လာ မှ သောကြာ

အခြေခံအချက်အလက်ကောက်ယူခြင်း

လက်ရစီမံကိန်းအနီးပတ်လည်ရှိ ှသဘာဂပတ်ဂန်းကျင် နှင့် လူမှုပတ်ဂန်းကျင်အခြေအနေ ကို အောက်ပါဇယားတွင်ဖော်ပြထားပါသည်။ လေထု၊ ရေထု၊ မြေထု နှင့် ဆူညံသံတို့အားတိုင်းတာ ကောက်ယူ ခဲ့ပြီး အပင် နှင့် တိရိစ္ဆာန်၊ ယဉ်ကျေးမှုအမွှေအနှစ် နှင့် ရေအသုံးချမှုများ နှင့် လူမှုပတ်ဂန်းကျင် အချက်အလက်များကို သက်ဆိုင်ရာဒေသအချက်အလက်မှ ရယူအသုံးပြုခဲ့ပါသည်။

အမျိုးအစား	ဖော်ပြချက်
သဘာပပတ်ပန်းကျင်	
မြေမျက်နာသွင်ပြင်၊	ပင်လယ်ရေမျက်နှာပြင်အထက် ၁၄၄ ပေတွင်ရှိပါသည်။ ချောင်းတစ်ချောင်း
ပထစီအနေအထား၊ ဘူမီဗေဒ	သာလျှင်ရှိပါသည်။ ၄င်းမှာ ဘားလားချောင်းဖြစ်ပါသည်။ မြောက်မှ တောင်
နှင့် မြေအမျိုးအစား	သို့ ၁၂ မိုင်ရှည်သွယ်တန်းနေပီး အနောက်သို့ ၈ မိုင်သွယ်တန်းနေပါသည်။
	မိုးရာသီတွင်ေေ ချာင်အနက်မှာ ၂ ပေ ရှိပီး နွေတွင ၈ ပေခန့့်သာရှိပါသည်။
	ထို့ကြောင့်ရေကြောင်းပို့ဆောင်ရေးအတွက် အသုံးပြုမရပါ။ စီမံကိန်းအနီး
	တွင် မြေမျက်နှာသွင်ပြင်သည်ထိခိုက်နိုင်မှုမရှိပါ။ ရေဂပ်ဖရိယာလည်းမရှိပါ။
ရာသီဥတု	အပူချိန်
	မင်္ဂလာဒုံမြို့နယ်၏အပူချိန်သည် အမြင့်ဆုံး ၃၉ ဒီဂရီဆဲစီးရပ် နှင့်
	အနိန်းဆုံးမှာ ၁၅.၅ ဒီဂရီဆဲစီးရပ်ရှိပါသည်။ ၄င်းကို မြို့နယ်အချက်
	အလက်စာအုပ်မှကောက်နူတ်ဖော်ပြထားပါသည်။
	မိုးငရချိန်
	ရန်ကုန်မြို့၏တစ်နှစ်ပျမ်းမှုမိုးရေချိန်မှာ ၂၆၀၁ mm (၁၀၅.၆
	လက်မ) ရှိပီး တစ်လလျှင် ၂၂၃.၄ mm (၈.၈ လက်မ) ရှိသည်။
သက်ရှိဇီပဗေဒ	ရှားပါးမျိုးစိပ်များစီမံကိန်းအနီးတွင်မရှိပါ။
အရေးပေါ် အခြေအနေ	ရေကြီး၊ ငလျင် နှင့် မုတ်တိုင်းတိုင်းကျရောက်သော နေရာတွင်မကျရောက်ပါ။
လူမှုပတ်ဂန်းကျင်	
လူဦးရေ	မင်္ဂလာဒုံမြို့နယ်သည် ၁၂၈ စတုရန်းကီလာမီတာ ကျယ်ပန်းပါပီးလူဦးရေ

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	သိပ်သည်းမှုမှာ ၂၅၈၂/ စတုရန်းကီလိုမီတာရှိပါသည်။ လူဦးရေမှာ ၂၀၁၄-
	၂၀၁၅ စစ်တန်းအရ ၂၅၅၈၀၇ ရှိပါသည်။
လူမျိုး	လူဦးရေ၏ ၉၃ % သည် ဗမာလူမြိုး၊ ရခိုင် ၁.၂၁ %။ ကရမ်း ၁.၄၈ %၊ မွန်
	ဂ.၆၃ % ဖြသိပါသည်။ ချင်း၊ ကချင်၊ ကယား နှင့် ရှမ်းလူမျိုး များ
	လည်းနည်းပါးစွာရှိပါသည်။
ကိုးကွယ်ယုံကြည်မှု	အဓိက အားဖြင့် ၉၅.၄၉ % သည် ဗုဒ္ဓဘာသာဂင်များဖြစ်ပီး ခရစ်ယန် ၁.၆၃
	%၊ ဟိန္ဒူ ၁.၂၆ % နှင့် မူဆလင် ၁.၆၂ % အသီးသီးကိုးကွယ်ကြပါသည်။
စီးပွားရေးနှင့် အသက်မွေး	မင်္ဂလာဒုံမြို့နယ်သည်တဖြည်းဖြည်းဖွံ့ဖြိုးတိုးတက်နေသည်။ ဒေသခံများ၏
လမ်းကြောင်း	အဓိကလုပ်ငန်း များမှာ စိုက်ပျိုးရေး၊ စက်ရုံပန်ထမ်း၊ ကုမ္ပဏီ ပန်ထမ်း နှင့်
	အစိုးရအလုပ်များလုပ်ကိုင်ပါသည်။ အမှတ် (၃) လမ်းနှင့် ကပ်လျှက်ရှိသဖြင့်
	စက်ရုံများမှထုတ်ကုန်များအား ကုန်စီကူးသန်းရောင်းပယ် ရေးများလုပ်ငန်း
	များလည်းလုပ်ကိုင်ပါသည်။
ဆေးရုံ နင့် ကျန်းမာရေး	ကုတင် (၅ဂ) နှင့် (၁ဂဂ) ရှိမြို့နယ်ဆေးရုံ (၂) ရုံ၊ ပုဂ္ဂလိကဆေးခန်း (၂၅) ခု၊
ဂန်ဆောင် မူလုပ်ငန်းများ	ကျေးလက်ကျန်းမာရေးဌာန (၅) ခု၊ ရှိသည်။ ထို့ပြင် အထွေထွေ ကုတင်
	၁၀၀၀ နှင့် ၅၀၀၊ အရိုးဆေးရုံ ကုတင် (၅၀၀) စစ်ဆေးရုံ (၃) ရုံလည်းရှိပါ
	သည်။
ရှေးဟောင်းယဉ်ကျေးမှု	ရှေးဟောင်းယဉ်ကျေးမှုအမွေအနှစ်များမရှိပါ။
ပတ်ပန်းကျင်အရေအသွေးအခြေ	
လေထုအရည်အသွေး	ပတ်ပန်းကျင်လေထုအရေအသွကို ၂၀၁၇ ဒီဇင်ဘာတွင်တိုင်းတာခဲ့ရာ
	နိုင်ငံတော်မှသတ်မှတ်ထားသော စံချိန်အားကျော်လွန်မှုမရှိပါ။
ရေအရည်အသွေး	စွန့်ပစ်ရေအရည်အသွေး
	စွန့်ပစ်ရေနမှုနာကို စက်ရုံရှေ့စည်ပင်မြောင်းမှကောက်ယူခဲ့ပါသည်။
	တိုင်းတာမှုအရ COD, BOD, TSS တန်းဖိုးများသည်နိုင်ငံ တော်မှ
	သတ်မှတ်ထားသော စံချိန်အားအနည်းငယ်ကျော်လွန်နေပါသည်။
	တရြားသော parameters များသည်စံချိန်အတွင်းရှိပါသည်။
	မြေအောက်ရေအရည်အသွေး
	မြေအောက်ရေနမူနာကို စီမံကိန်းတွင်းအဂီစိတွင်းမှ ကောက်ယူခဲ့ပါ
	သည်။ တိုင်းတာမူအရ သံဓာတ်သည်သောက်သုံးရေစံညွှန်း ထက်
	ကျော်လွန်နေပါသည်။ စေးပျစ်အားသည်လည်း WHO နှင့် India
	စံညွှန်းများကိုကျော် လွန်နေပါသည်။ ထို့ပြင်မန်းဂနိသည်လည်း
	EPA နှင့် India စံညွှန်းများကိုကျော်လွန်နေပါသည်။ တခြားသော
	parameters များသည်စံချိန်အတွင်းရှိပါသည်။
ပေကြီးဆူလည်း	မြေကြီးနမူနာကို စက်ရုံခြေရှေ့မှ ရယူကာ အမျိုးအစား (၁၀) မျိုး ကိုတိုင်း
မြေကြီးအရည်အသွေး	တာခဲ့ပါသည်။၄င်းတို့မှာ pH, Cl, Fe, As, CN, Al, Mn, P-Alkalinity, Total
0 0	Alkalinity, Extractable Acidity တို့ဖြစ်ပါသည်။ ဆူညံသံတိုင်းတာရာတွင် သတ်မှတ်စံညွှန်းအောက်တွင်ရှိပါသည်။
ဆူညံသံ	

ထုတ်လုပ်မှုလုပ်ငန်းစဉ်

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

SC Auto ခရီးသည်တင်ယာဉ် ထုတ်လုပ်မှုလုပ်ငန်းစဉ်အဆင့်ဆင့်

- အဆင့် (၁)။ အင်ဂျင်နီယားရင်းဒီဖိုင်း
- အဆင့် (၂)။ ကုန်ကြမ်းသတ္တုပြားများအား ဖြတ်ခြင်း၊ ကွေးခြင်း
- အဆင့် (၃)။ အစိတ်အပိုင်းများ တပ်ဆင်ခြင်း
- အဆင့် (၄)။ ကားကိုယ်ထည်၊ အင်ဂျင်၊ ပင်ရိုးတန်း၊ ဂီယာအုံ စသည်တို့တပ်ဆင်ခြင်း
- အဆင့် (၅)။ မှန်များ တံခါးများ နှင့် အတွင်းပိုင်း ပစ္စည်းများတပ်ဆင်ခြင်း နှင့် အထိုင်ချခြင်း
- အဆင့် (၆)။ ကားလေအေးပေးစနစ် နှင့် လျှပ်စစ်လိုင်းများတပ်ဆင်ခြင်း
- အဆင့် (၇)။ ကားဆေးမှုန်ခြင်း
- အဆင့် (၈)။ အရည်သွေးစစ်ဆေးခြင်း

SC Auto (Myanmar) Co., Ltd.

ပိတ်ပန်းကျင်ထိခိုက်နိုင်မှုများ၏ သိသာထင်ရှားမှု အဆင့်သတ်မှတ်ခြင်း

လုပ်ဆောင်မှုများ	အတိုင်းအတာများ	ထိရိုက်မှုများ	ကာလ	ഗ്രന	နေရာ	အမျိုးအစား	ဖြစ်နိုင်ချေ	သိသာ ထင်ရှားမှု
	• •	တည်ခေ	တက်ရေးကာလထိ	ာ ဂိုက်နိုင်မှုများ၏ သိ	ာသာထင်ရှားမှုမျ):		
မြေညိုခြင်း	လေအရည် အသွေး	လေထုအတွင်းထုတ်လွှတ် မှု မြင့်မားခြင်း(ဇုန်နှင့် အိတ်ဇောမှ ထုတ်လွှတ်မှု များ)	ကာလတို	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	_ეე-ეე%	အတန် အသင့်
	မြေမျက်နာ သွင်ပြင်နှင့် ရှုခင်း	မြေမျက်နှာ သွင်ပြင်နှင့် မျက်စိ ပသာဒ ထိခိုက်ခြင်း	အမြံတမ်း	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်		အတန် အသင့်
ပတ်ဝန်းကျ ဇီဝမျိုးစုံမျိုး လူမှုစီးပွား န	ကုန်းမြေဇီဝ ပတ်ဝန်းကျင် နှင့် ဇီဝမျိုးစုံမျိုး ကွဲများ	အပင်နှင့် သတ္တဝါများ အပေါ် သက် ရောက်ခြင်း	အမြံတမ်း	အတန်အသင့်	စီမံကိန်း နေရာ	တိုက်ရိုက်	<u> ე</u> ე-ეე%	အတန် အသင့်
	လူမှုစီးပွား ဆိုင်ရာ လုပ်ဆောင်မှု များ	စီးပွားရေး အလုပ်အကိုင် များ တိုးတက် လာ ခြင်း	ജസധിജസന്	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	၂୭-୵୭%	ကောင်းကျိူးရရှိ
	အသံဆူညံခြင်း	ဆူညံသံ ထုတ်လွှတ် ခြင်း	ကာလတို	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	ე <u>ე</u> -ეე%	မသိသာ
လုပ်ရြင်း အလ မြေ သွင် ကူ ကူ	လေထုအရည် အသွေး	လေထုအတွင်းထုတ်လွှတ် မှု မြင့်မားခြင်း (ဇုန်နှင့် အိတ် ဇောမှ ထုတ်လွှတ် မှုများ)	ကာလတို	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	 ეე-იეე%	မသိသာ
	မြေမျက်နာ သွင်ပြင်နှင့် ရှုခင်း	မြေမျက်နှာ သွင်ပြင်နှင့် မျက်စိပသာဒထိခိုက် ခြင်း	အမြဲတမ်း	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<u> </u>	အတန် အသင့်
	ဆူညံသံ ညစ်ညမ်းခြင်း	ဆူညံသံ ထုတ်လွှတ် ခြင်း	ကာလတို	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	၂၅-၇၅%	မသိသာ
	လူမှုစီးပွားဆိုင်ရာလု ပ်ဆောင်မှုများ	ဒေသတွင်း အလုပ် သမားများ အခွင့် အလမ်း	အလယ်အလတ်	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<u> </u>	ကောင်း ကိျူးရရှိ

		ရရှိခြင်း						
လုပ်ငန်းအတွက် ပစ္စည်းများ ဝယ်ယူခြင်း	လေထုအရည် အသွေး	လေထုအတွင်းထုတ်လွှတ် မှု မြင့်မားခြင်း (ဖုန်နှင့် အိတ် ဇောမှ ထုတ်လွှတ် မှုများ)	ကာလတို	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<u> ე</u> ე-იე%	မသိသာ
လူအရင်းအမြစ်	လူမှုစီးပွား ဆိုင်ရာ ဆောင်ရွက်မှု များ	ဒေသတွင်း အလုပ် သမား များ အခွင့်အ လမ်း ရရှိခြင်း	အလယ်အလတ်	အတန်အသင့်	စီမံကိန်း နေရာ	တိုက်ရိုက်	>റ്9%	ကောင်း ကိျူးရရှိ
အလုပ်သမားများ အတွက် ယာယီနေထိုင်စရာ		ရေအသုံးချမှု နှင့် စွန့် ပစ်ရေ စွန့် ထုတ်ခြင်း	အလယ်အလတ်	အတန်အသင့်	စီမံကိန်း နေရာ	တိုက်ရိုက်	<u> ၂၅-၇၅%</u>	မသိသာ
အဆောက်အဦး များ ဆောက်လုပ်ခြင်း	လူမှုစီးပွား ဆိုင်ရာ ဆောင်ရွက်မှု များ	စီးပွားရေးလုပ်ငန်းများ လုပ်ဆောင်မှုမြင့်မား လာခြင်း	အလယ်အလတ်	အတန်အသင့်	စီမံကိန်း နေရာ	တိုက်ရိုက်	>റ്9%	ကောင်းကျိူးရရှိ
မြေတူးခြင်း ၊ အုတ်မြစ်ချခြင်း ၊ အဆောက်အဦး များ တည်ဆောက်ခြင်း	လေထု အရည်အသွေး	လေထုအတွင်းထုတ်လွှတ် မူ မြင့်မားခြင်း (ဖုန်နှင့် အိတ် ဇောမှ ထုတ်လွှတ် မှုများ)	ကာလတို	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<u> </u>	မသိသာ
	မြေမျက်နာ သွင်ပြင်နှင့် ရှုခင်း	ကည်ဆောက်ရေးလုပ်ငန်း လုပ် ဆောင်မှု များကြောင့် မျက်စိ ပသာဒ ထိနိုက်ခြင်း	ကာလတို	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	_ეე-ეე%	မသိသာ
	လူမှုစီးပွားဆိုင်ရာ ဆောင်ရွက်မှုများ	စီးပွားရေးလုပ်ငန်းများ လုပ် ဆောင်မှုမြင့် မားလာခြင်း	အလယ်အလတ်	အတန်အသင့်	စီမံကိန်း ရှိရာဒေသ	တိိုက်ရိုက်	>റ്റ്റ%	ကောင်းကိျူးရရှိ
	ဆူညံသံထုတ်လွှတ်ြ ခင်း	ဆူညံသံများ မြင့်မားခြင်း	ကာလတို	နည်းပါး	စီမံကိန်းနေရာ	တို က်ရိုက်	<u> </u>	မသိသာ
ယာဉ်များနှင့် တည်ဆောက်ရေးလုပ်ငန်း သုံး စက်များ အသုံးပြုရြင်း	လေထု အရည်အသွေး	လေထုအတွင်းထုတ်လွှတ် မှု မြင့်မားခြင်း (ဖုန်နှင့် အိတ်ဇောမှ ထုတ်လွှတ်မှုများ)	ကာလတို	နည်းပါး	Lစီမံကိန်းနေရာ	တိုက်ရိုက်	<u> </u>	မသိသာ
	လူမှုစီးပွားဆိုင်ရာ ဆောင်ရွက်မှုများ	စီးပွားရေးလုပ်ငန်းများလုပ် ဆောင်မှု မြင့်မား လာခြင်း	အလယ်အလတ်	အတန်အသင့်	စီမံကိန်းနေရာ	တိုက်ရိုက်	>റ്റ്റ%	ကောင်းကျိူးရရှိ

အခြေခံအဆောက်အဉီများ ဆောက်လုပ်ခြင်း	ဇီဝမျိုးစုံမျိုးကွဲများ	ဂေဟစနစ် ယိုယွင်း စေခြင်း	ကာလတို	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<u> </u>	မသိသာ
	ဆူညံသံ ထုတ်လွှတ်ခြင်း	ဆူညံသံများ မြင့်မားခြင်း	ကာလတို	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<u> </u>	မသိသာ
	လူမှုစီးပွားဆိုင်ရာ ဆောင်ရွက်မှုများ	စီးပွားရေးလုပ်ငန်းများ လုပ်ဆောင် မှုမြင့်မား လာခြင်း	အလယ်အလတ်	အတန်အသင့်	စီမံကိန်းနေရာ	တိုက်ရိုက်	>იე%	ကောင်းကိျူးရရှိ
စွန့်ပစ်ပစ္စည်းများ စွန့်ထုတ်ခြင်း	မြေအောက်ရေ အရည်အသွေး	စွန့်ပစ်ပစ္စည်း များ မြေ အောက်ရေကို ထိရိက်စေခြင်း	အလယ်အလတ်	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<്വ്ര%	အတန် အသင့်
	လူမှုပတ်ဝန်းကျင်ဆို င်ရာ ဘေးအွန္တရယ် ကင်းရှင်းရေးနှင့် ကျန်းမာရေး	ကျန်းမာရေးအပေါ် ဆိုးကျိုး သက်ရောက်မှု	အလယ်အလတ်	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<പ്ര%	အတန် အသင့်
			I					
			လုပ်ငန်းလ	ည်ပတ်ရေးကာလ)			
အဆင့် ၁ ၊ အင်ဂျင်နီယာ ဒီဇိုင်းများ								
တတင် ၂၂ တန်ကြမ်းများ	ဆူညံသံညစ်ညမ်း ခြင်း	ဆူညံသံ ထုတ်လွှတ် ခြင်း	ကာလတို	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	၂၅-၇၅%	မသိသာ
အဆင့် ၂ ၊ ကုန်ကြမ်းများ ဖြတ်တောက်ခြင်း ၊ ကွေးခြင်း ၊ လှိမ့်ခြင်း	လုပ်ငန်းခွင် ကျန်းမာရေးနှင့်ဘေး အွန္တရာယ်ကင်းရှင်းစ ရး	ကျန်းမာရေးအတွက် ဆိုးကျိူးသက်ရောက်မှုများ	အလယ်အလတ်	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<പ്ര%	အတန်အသင့်
	ဆူညံံသံ ညစ်ညမ်းခြင်း	ဆူညံသံ ထုတ်လွှတ် ခြင်း	ကာလတို	SMALL နည်းပါး	စီပံကိန်း နေရာ	တိုက်ရိုက်	၂၅⁻୵၅%	မသိသာ
အဆင့် ၃ ၊ အစိတ်အဝိုင်းများ တဝ်ဆင်ခြင်း	လုပ်ငန်းခွင် ကျန်းမာရေးနှင့်ဘေး အွန္တရာယ်ကင်းရှင်းဖေ	ကျန်းမာရေးအတွက် ဆိုးကျူးသက်ရောက်မှုများ	အလယ်အလတ်	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<്വ്വ%	အတန်အသင့်
	ရး							

	ဆူညံသံ ညစ်ညမ်းခြင်း	ဆူညံသံ ထုတ်လွှတ် ခြင်း	ကာလတို	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	၂၅-୵၅%	မသိသာ
အဆင့် ၄ ၊ ပုံကြမ်း တပ်ဆင်ရြင်း	လုပ်ငန်းခွင် ကျန်းမာရေးနှင့်ဘေး အွန္တရာယ်ကင်းရှင်းဓ ရး	ကျန်းမာရေးအတွက် ဆိုးကျိူးသက်ရောက်မှုများ	ജസധിജസന്റ	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<്വ്ര%	အတန်အသင့်
အဆင့် ၅၊ အစိတ်အဝိုင်းများ တပ်ဆင်ခြင်းနှင့် ကိုယ်ထည်အတွင်း ဝိုင်းတပ်ဆင်ခြင်း	လုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ် ကင်းရှင်းရေး	ကျန်းမာရေးအတွက် ဆိုးကိျူး သက် ရောက်မှု များ	အလယ် အလတ်	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<പ്ര%	အတန်အသင့်
အဆင့် ၆ ၊ လေအေးပေး စနစ် တပ်ဆင်ခြင်း နှင့် လျှပ်စစ်စနစ် များ တပ်ဆင်ခြင်း	လုပ်ငန်းခွင် ကျန်းမာရေးနှင့်ဘေး အွန္တရာယ်ကင်းရှင်းစ ရး	ကျန်းမာရေးအတွက် ဆိုးကိျူး သက် ရောက်မှု များ	အလယ် အလတ်	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<്വ്ര%	အတန်အသင့်
	လေထုအရည် အသွေး	အငွေပျံနိုင်သော အော်ဂဲနစ် ဒြပ်ပေါင်း များံ	ကာလရှည်	အတန် အသင့်	စီမံကိန်း နေရာ		<പ്ര%	အတန်အသင့်
အဆင့် ဂု ၊ ဆေးမှုတ်ခြင်း	လုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ ကင်းရှင်းရေး	ကျန်းမာရေးအတွက် ဆိုးကိျူးသက်ရောက်မှုများ	အလယ် အလတ်	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<്വ്ര%	အတန်အသင့်
အဆင့် ၈ ၊ အရည်အသွေး ထိန်းသိမ်းခြင်းနှင့် စစ်ဆေးခြင်း								
အစိုင်အခဲစွန့်ပစ်ပစ္စည်းများ	မြေအောက်ရေ အရည်အသွေး	စွန့်ပစ်ပစ္စည်းများ မြေအောက်သို့ စိမ့်ဝင်ခြင်း	အလယ်အလတ်	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<്വ്യ%	အတန်အသင့်
အစုပအခစ္စန္ ပမဝစ္စည်းများ စွန့်ထုတ်ရြင်း	Community health and safety ပတ်ဝန်းကျင် လူမှုကျန်းမာရေး	Adverse health impacts ကျန်းမာရေးအတွက် ဆိုးကျိူးသက်ရောက်မှုများ	MEDIUM အလယ်အလတ်	SMALL နည်းပါး	LOCAL စီမံကိန်းနေရာ	DIRECT တိုက်ရိုက်	<25% <്വ്ര%	MODERATE အတန်အသင့်

SC Auto (Myanmar) Co., Ltd.

	ထိခိုက်မှုများ							
			රිරාිරිදි	ားခြင်းကာလ				
စွန့်ပစ်ပစ္စည်းစွန့်ထုတ်ခြင်း	မြေအောက်ရေ အရည်အသွေး	စွန်	အလယ်အလတ်	နည်းပါး	စီမံကိန်းနေရာ	တိုက်ရိုက်	<്വഉ%	အတန်အသင့်
	ပတ်ဝန်းကျင် လူမှုကျန်းမာရေး ထိခိုက်မှုများ	ကျန်းမာရေး အတွက် ဆိုးကိျူးသက် ရောက်မှုများ	အလယ်အလတ်	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<്വ്യ%	အတန်အသင့်
အဆောက်အဦများ ပြန်လည် ဗြိုဖျက်ခြင်း	ဆူညံသံ ထွက်ရှိမှု	ဆူညံသံ ထုတ်လွှတ်ခြင်း	ကာလတို	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	<u> ე</u> 9-ეე%	မသိသာ
	လူမှုစီးပွားဆိုင်ရာ ဆောင်ရွက်မှုများ	ဒေသတွင်း အလုပ်အကိုင်အခွင့်အလမ် း တိုးတက်ခြင်း	အလယ်အလတ်	နည်းပါး	စီမံကိန်း နေရာ	တိုက်ရိုက်	၂ე-ეე%	ကောင်းကိျူးရရှိ

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်

စီမံကိန်း/ လုပ်ဆောင်မှု အခြေအနေ (သက်ရောက်နိုင်သော ပတ်ဝန်းကျင်ဆိုင်ရာ ထိခိုက်မှုများ)	ရည်ရွယ်ချက်	လျော့ပါးစေသောနည်းလမ်းများ	လျော့ပါးစေသော နည်းလမ်းများအတွ် ခန့်မှန်း ကုန်ကျစရိတ်	တာဝန်ရှိပုဂ္ဂိုလ် /အဇွဲအစည်း				
	တည်ဆောက်ရေးကာလ							
မြေဆီလွှာပျက်စီးခြင်း	တည်ဆောက်ရေး	• မြေဆီလွှာပျက်ဆီးမှု မဖြစ်စေရန်	သီးသန့်ကုန်ကျစရိတ်	စီမံကိန်းဖော်				
	 လုပ်ဆောင်မှုများ	မြေတူးဖော်ခြင်းအလုပ်များကို စနစ်တကျ လုပ်ဆောင်ခြင်း	မရှိ	ဆောင်သူနှင့်				
	ကြောင့် မြေဆီလွှာ	• ရေမြောင်းစနစ်ကို ကောင်းစွာ ပြုလုပ်ခြင်း		တည်ဆောက် ရေး				
	ပျက်စီးမှု	• စီမံကိန်းပြီးမြောက်သောနေရာများတွင် မျက်စိပသာဒ		လုပ်ငန်းတာဝန်ယူ				

	နည်းပါးစေရန်	ဖြစ်စေသော ရှုခင်းများ ဖော်ဆောင်ခြင်း • မိုးသည်းထန်သော ကာလတွင် လုပ်ဆောင်မှုများကို စနစ်တကျ ထိန်းချပ်ခြင်း • မြေဆီလွှာပျက်စီးခြင်း ၊ ထိန်းသိမ်းခြင်းတို့အတွက် လိုအပ်သော အထောက်အပံ့များ တည်ဆောက်ခြင်း • မြေဆီလွှာထိန်းသိမ်းခြင်းအနေဖြင့် မြက် နှင့် အခြားသော အပင်မျိုးများကို ပြန်လည်စိုက်ပျိုးပေးခြင်း • ယာယီအကာများ ဖုံးအုပ်ထားခြင်းဖြင့် မြေမျက်နှာပြင်ပေါ် ရေစီးဆင်းမှုကို ကာကွယ်ခြင်း • မိုးသည်းထန်ချိန်တွင် ထိတွေ့နိုင်သော မြေမျက်နှာပြင်ရေိယာကို တိုင်းတာခြင်း		ວ _ີ ມ
భా చేప	ဆူညံသံထွက်ရှိမှု သည် လက်ခံနိင် သော အတိုင်း အတာ ရှိစေခြင်း	 တည်ဆောက်ရေးလုပ်ငန်းများကို ပုံမှန် အလုပ်ရိန်အတိုင်းသာ ဆောင်ရွက်ရန် ဆူညံသံထွက်ရှိမှုမြင့်မားသော စက်ပစ္စည်းများကို အသံလျော့ချသောစနစ်တပ်ဆင်ရန် ဆူညံသံ ၈၀ dBA ခံစားရသော အလုပ်သမားများကို အလုပ်ရိန် ၈ နာရီသာ လုပ်ခွင့်ပြုရန် နှင့် နားကြပ်များ တပ်ဆင်စေခြင်း 	သီးသန့်ကုန်ကျစရိတ် မရှိ	တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ
လေထုညစ်ညမ်းခြင်း (အမှုန်အမွှား)	ပတ်ဝန်းကျင်လေ ထုအတွင်းသို့ ဖုန် နှင့် အမှုန်အမွှား ပြန့်နှံ့မှုကို ထိန်း ချူပ်ခြင်း	 ခြောက်သွေ့သောကာလ မြေတူးဖော်ခြင်း လုပ်ငန်းလုပ်ဆောင်ချိန်တွင် အမှုန်အမွှားထွက်ရှိမှု လျော့ချရန် ရေဖြန်းစနစ်ထားရှိခြင်း တည်ဆောက်ရေး ယာဉ်များ၏ လည်ပတ်ခြင်းနှင့် သွားလာမောင်းနှင်မှု အမြန်နှုန်းများကို ထိန်းချုပ်ခြင်း မလိုအပ်ပဲ စက်မောင်းနှင်ထားခြင်းအား တားမြစ်ခြင်း 	သီးသန့်ကုန်ကျစရိတ် မရှိ	တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ

		 တည်ဆောက်ရေး စက်များနှင့် ယာဉ်များ၏ အသံထွက်ရှိမှုကို ထိန်းသိမ်းခြင်း ခြောက်သွေပြီး လေတိုက်ခတ်သော ကာလတွင် တည်ဆောက်ရေးလုပ်ငန်းခွင်အတွင်းရှိ လုပ်သားများကို မျက်နာဖုံးအုပ်၍ အလုပ်လုပ်စေခြင်း 		
ပစ္စည်းများ သယ်ယူပို့ဆောင်ခြင်း	သယ်ယူပို့ဆောင် ရိန်အတွင်း ဖုန် ၊ အသံနှင့် စွန့်ပစ် ပစ္စည်းများ ထွက် ရှိမှုကို လျော့နည်း စေခြင်း	 မြေကြီးများ သယ်ယူပို့ဆောင်ရာတွင် အဖုံးအကာဖြင့် သယ်ယူပို့ဆောင်ရန် မြေသယ်ကားများသည်လည်း အဖုံးအကာများ လုံခြုံစွာ ဖုံးအုပ်နိုင်သော စနစ် တပ်ဆင်ထားရမည် မြေနှင့် တည်ဆောက်ရေးလုပ်ငန်းသုံး ပစ္စည်းများ သယ်ယူပို့ဆောင်ရာတွင် လမ်းမများပေါ် သို့ ဖိတ်ကျခြင်းအတွက် ရှင်းလင်းရန် တည်ဆောက်ရေးကန်ထရိုက်တာမှ တာဝန်ရှိသည်။ ယင်းအချက်များသည် စီမံကိန်းအကောင်အထည်ဖော်ဆောင်သူနှင့် တည်ဆောက်ရေးကုန်ထရိုက်တာတို့ စာချူပ်ချူပ်စဉ်တွင် ပါဝင် ဖော်ပြထားရမည်။ လောင်စာဆီနှင့် ချောဆီများ တည်ဆောက်ရေးလုပ်ငန်းခွင်သို့ သယ်ပို့ရာတွင် သတ်မှတ်ထားသော ယာဉ်အမျိုးအစားဖြင့်သာ သယ်ပို့ရမည်။ ဖြစ်နိုင်လျှင် တည်ဆောက်ရေးပစ္စည်းများ သယ်ယူပို့ဆောင်ခြင်းသည် စီမံကိန်းဧရိယာအတွင်းသာ ရှိသင့်သည်။ 	သီးသန့်ကုန်ကျစရိတ် မရှိ	တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ

SC Auto	(Myanmar)	Co., Ltd.
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ပစ္စည်းများ သိုလှောင်ခြင်း မိလ္လာ စွန့်ပစ်ခြင်း စီမံခန့်ခွဲမှု	ပစ္စည်းများ ကောင်းစွာသို လှောင်ခြင်းနှင့် မတော်တဆ ယိုဖိတ်မှုကို ရှောင်ကြည်ရန် ရောင်ကြည်ရန် မှ မြေဆီလွှာနှင့် ရေထုညစ်ညမ်းမှု ကို ကာကွယ်ခြင်း ၊ ယာယီမိလ္လာကန် များမှ ယိုဖိတ်မှု မဖြစ်စေရန် ကာကွယ်ခြင်း	 တိုင်စိုက်ခြင်းအတွက် ပစ္စည်းများကို စနစ်တကျ သိုလှောင်ထားရမည်။ သံ ၊ ထုံးအစရှိသော ပစ္စည်းများကို ရေမြောင်းများနှင့် အဝေးတွင် လုံခြုံစွာ ထိန်းသိမ်းထားရမည်။ ပစ္စည်းများ သိုလှောင်ထားရှိရန်အတွက် အန္တနရာယ်ကင်းသော ဖရိယာများ သတ်မှတ်ထားပေးရမည်။ အန္တနရာယ်ရှိသော ဓာတုပစ္စည်းများ (ဥပမာ ၊ လောင်စာ) တို့ကို သင့်တော်သော ကွန်တိန်နာများ တွင် ထားရှိပြီး စနစ်တကျ သော့ဓတ်ထားရမည်၊ စနစ်တကျကိုင်တွယ်အသုံးပြုရမည်။ မိလ္လာသန့်စင်စနစ်ထားရှိရမည် အစိုင်အခဲစွန့်ပစ်ပစ္စည်း စွန့်ပစ်စနစ်ကို လုံလောက်စွာထားရှိပေးရမည် သတ်မှတ်ထားသော စွန့်ပစ်ရမည့် နေရာသို့ စွန့်ပစ်နိုင်ရန် စီစဉ်ပေးရမည်။ 	သီးသန့်ကုန်ကျစရိတ် မရှိ သီးသန့်ကုန်ကျစရိတ် မရှိ	တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ
တည်ဆောက်ရေး စွန့်ပစ်ပစ္စည်းများ စွန့်ထုတ်ခြင်း	တည်ဆောက်ရေး လုပ်ငန်းမှ စွန့်ပစ် ပစ္စည်းများ ဖြစ်ကြ သော မှန် ၊ သတ္တု ၊ သစ်သား ၊	 စွန့်ပစ်ပစ္စည်း သိမ်းဆည်းခြင်းနှင့် စွန့်ပစ်ခြင်းတို့ကို မင်္ဂလာဒုံမြို့နယ်စည်ပင်သာယာနှင့် ချိတ်ဆက်၍ စွန့်ပစ်ရမည် စီမံကိန်းလုပ်ငန်းခွင် ပြင်ဆင်ခြင်းနှင့် တည်ဆောက်နေစဉ် အစိုင်အခဲစွန့်ပစ်ပစ္စည်းများ အနည်းဆုံး ထွက်စေရန် 		တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ

မတော်တဆ ၊ ထိခိုက်မှု ၊ ကျန်းမာရေးအန္တရာယ်	ဘိလပ်မြေ အကြွင်း အကျန်များ ၊ ပလတ်စတစ် ၊ စက္ကူများ ၊ ဆီများ ယိုဖိတ်ခြင်း တို့ မဖြစ်စေရန် လုံလောက်သော စွန့်ပစ်စနစ်ထား ရွိခြင်း မတော်တဆနှင့် ထိခိုက်မှုများ ၊ ရောဂါများ ဖြစ်ပွားမှု အနည်းဆုံး ဖြစ်စေရန်	ပြုလုပ်ရမည်။ • . • အော်ဂဲနစ် စွန့်ပစ်ပစ္စည်းများ ထွက်ရှိမှု လျော့ချခြင်းနှင့် မြေဆီလွှာထိန်းသိမ်းရန် အပင်ငယ်များ ပြန်လည်စိုက်ပျိုးခြင်း • တူးဖော်ထားသော မြေများကို လိုအပ်သောနေရာတွင် ပြန်လည်ဖို့ခြင်း • အသုံးမဝင်တော့သော ဆောက်လုပ်ရေးလုပ်ငန်းသုံ ပစ္စည်းအပျက်များကို မင်္ဂလာဒုံမြို့နယ် စည်ပင်သာယာဌာနနှင့် ဆက်သွယ်စွန့်ပစ်ရန် • တကိုယ်ရည်သုံးအကာအကွယ်ပစ္စည်း များ ၊ ဖိနပ်၊ ဦးထုပ် ၊ မျက်မှန် ၊လက်အိတ် စသည်တို့ကို လုပ်ငန်းခွင်တွင် အချိန်ပြည့် သုံးရန် • အကာအရံများ လိုအပ်သလို ကာရံထားခြင်းအတွက် အလုပ်သမားများ ထိခိုက်မှုကို ကာကွယ်ပေးခြင်း	သီးသန့်ကုန်ကျစရိတ် မရှိ	တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ
ဆူညံံသံညစ်ညမ်းခြင်း	ဆူညံသံထွက်ရှိမှု	 အန္တရယ်ရှိသောနေရာများတွင် သတိပေးဆိုင်းဘုတ်များ ချိတ်ဆွဲထားခြင်း လုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအွန္တရယ်ကင်းရှင်းရေး အစီအစဉ်များ အကောင်အထည်ဖော်ခြင်း ထိခိုက်မှုများအတွက် ရှေးဦးသူနာပြုဆေးသေတ္တာများကို အလွယ်တကူ ထားရှိပေးခြင်း ဘေးအွန္တရယ်ကင်းရှင်းရေးအတွက် ပုံမှန်ဟောပြောပွဲများ သင်တန်းများပေးခြင်း 		

	သည် သတ်မှတ်သော လမ်းညွှန်ချက် များအတွင်းရှိစေ ရန်			
စွန့်ပစ်ဓရ	ပတ်ဝန်းကျင် မြေထုနှင့် ရေထု ညစ်ညမ်းမှုကို လျော့ချရန်	 ထုတ်လုပ်မှုလုပ်ငန်းစဉ်နှင့် စက်ပစ္စည်းများ ဆေးကြောခြင်းအတွက် ရေအသုံးချမှုကို အနည်းဆုံးဖြစ်စေရန် အသုံးပြုခြင်း စွန့်ပစ်ရေ သန့်စင်မှုစနစ်ကို အဆင့်မြင့်တင်ရန် စီစဉ်ခြင်း ရေကို တတ်နိုင်သမှု ပြန်လည် အသုံးချနိုင်ရန် စီစဉ်ခြင်း မသန့်စင်ရသေးသော စွန့်ပစ်ရေများ စွန့်ထုတ်ခြင်းကို သေချာစွာ စောင့်ကြပ်ကြည့်ရှုခြင်း 	ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ်၏ ကုန်ကျစရိတ်အတွင်း မှ	SC AUTO စီမံခန့်ခွဲမှု အဖွဲ
အစိုင်အခဲစွန့်ပစ်ပစ္စည်း	အစိုင်အခဲစွန့်ပစ် ပစ္စည်းများ ကြောင့် မြေထု ညစ်ညမ်း ခြင်းကို ကာကွယ်ရန်	 စွန့်ပစ်ပစ္စည်းစီမံခန့်ခွဲမှု အစီအစဉ် သတ်မှတ်ခြင်း DOWA ကဲ့သို့သော စွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမှု စနစ်ရှိနေရာသို့ ဆက်သွယ်စွန့်ပစ်ခြင်း အန္တရာယ်ရှိသော ပစ္စည်းနှင့် အွန္တရာယ်မရှိသော ပစ္စည်းများ၏ ဗူးခွံများကို ရောင်းချသူထံသို့ ပြန်လည်အသုံးပြုနိုင်ရန် ပေးပို့ခြင်း 	ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ်မှ စွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမှု ကုန်ကျစရိတ် အတွင်းမှ	SC AUTO ကျန်းမာရေးနှင့် ဘေးအန္တရာယ်ကင်း ရှင်းရေး ဌာန
C	လ ဂလုပ်သမားများအတွ က် ဘေးကင်း သော ပုပ်ငန်း ခွင်ဖြစ် စေရန်	ပုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ်ကင်းရှင်းရေး • တကိုယ်ရည်သုံးအကာအကွယ် ပစ္စည်းများ ထောက်ပံ့ပေးခြင်း နှင့် စနစ်တကျ အသုံးပြုတတ်စေရန် သင်တန်းပေးခြင်း	ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ်ကင်းရှ င်းရေးအတွက်	SC AUTO ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ်ကင်း

ဆူညံသံနှင့် တုန်ခါမှု	ဆူညံသံထွက်ရှိမှု သည် သတ်မှတ် သော လမ်းညွှန်ချက် များအတွင်းရှိစေရန်	 ဆူညံသံမြင့်မားသော စက်များကို လူများနှင့် သီးသန့်ခွဲထားခြင်း တုန်ခါမှု ထိတွေ့ ချိန်ကို လျော့ချခြင်း တကိုယ်ရည်သုံးအကာအကွယ်ပစ္စည်းများ ထောက်ပံ့ပေးခြင်း • 	ကုန်ကျစရိတ်အတွင်း မှ ကျန်းမာရေးနှင့် ဘေးအန္တရာယ်ကင်းရှ င်းရေးအတွက် သတ်မှတ်ထားသော ကုန်ကျစရိတ်အတွင်း မှ	SC AUTO ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ်ကင်း ရှင်းရေးဌာန
စက်ပစ္စည်းများ	ကျန်းမာရေးနှင့် ဘေးအန္တရာယ်ကင်းရှ င်းရေး ဦးတည် ချက် များနှင့် ကိုက်ညီစေရန်	 တကိုယ်ရည်သုံးအကာအကွယ် ပစ္စည်းများကို မှန်ကန်စွာရွေးချယ်တတ်စေရန် ဝန်ထမ်းများအား သင်တန်းပေးခြင်း စက်များနှင့် ဘေးအွန္တရယ်ကင်းရှင်းရေး ပစ္စည်းများကို မှန်ကန်စွာအသုံးပြုတတ်စေရန် ဝန်ထမ်းများ အား သင်ကြားပေးခြင်း ထိခိုက်နိုင်သော ပစ္စည်းများကို တိုက်ရိုက်ကိုင်တွယ်ခြင်းမှ ရှောင်ကြဉ်ခြင်း 	SC Auto စီမံခန့်ခွဲ မှုမှ ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ် ကင်းရှင်း ရေးဦး တည်ချက်ကို သတ် မှတ်ခြင်း SC Auto စီမံခန့်ခွဲမှုမှ ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ်ကင်းရှ င်းရေး အတွက် အပိုဆုကြေးငွေ သတ်မှတ်ခြင်း	SC Auto ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ်ကင်း ရှင်းရေး ဌာန

		လုပ်ငန်းဖျက်သိမ်းခြင်းအဆင့်		
ဖျက်သိမ်းရေးလုပ်ငန်းများ မှ	လုပ်ငန်းခွင်အတွင်း	• ဘက်ပေါင်းစုံမှ နည်းလမ်းအဆင့်ဆင့်ဖြင့် အစိုင်အခဲ	1,000	တည်ဆောက် ရေး
စွန့်ပစ်ပစ္စည်း စွန့်ပစ်မှု	အပျက်အစီးများ နှင့်	စွန့်ပစ်မှု စီမံခန့်ခွဲမှု အစီအစဉ်ကို အသုံးပြုခြင်း။		လုပ်ငန်း
	အခြားအပိုင်းအစ များ	• စက်ရုံ ဖျက်သိမ်းရေးလုပ်ငန်းများကြောင့်		တာဝန်ယူသူ
	ထွက်ပေါ် လာ ခြင်းကို	ထွက်ပေါ် လာသည့် စွန့် ပစ်ပစ္စည်းများကို		
	လျော့ချ ရန်	စွန့်ပစ်ပစ္စည်းစီမံခန့်ခွဲမှုဆိုင်ရာလုပ်ထုံးလုပ်နည်းများ		
		နှင့်အညီ အမျိုးအစားအလိုက် လိုက်နာ ဆောင်ရွက်ခြင်း။		
		• အဆောက်အအုံများ၊ အဆောက်အဉီများ၊ စက်ပစ္စည်းများ		
		နှင့် ကိရိယာများအားလုံးကို အခြားရည်ရွယ်ချက်များ တွင်		
		ပြန်သုံးခြင်းမပြုပဲ ဖယ်ရှားရမည်။ (အခြားစီမံကိန်းများတွင်		
		ပြုပြင်ပြီး၊ ပြန်သုံးခြင်းကို ဆိုလိုသည်)		
		• စက်ပစ္စည်းများ၊ စက်ကိရိယာများ၊ အသုံးပြုကိရိယာများ နှင့်		
		အခြား စွန့်ပစ်ပစ္စည်းများ ကို		
		ပြန်လည်ပြုပြင်ခြင်း၊ပြန်သုံးခြင်းလုပ်ရန် မဖြစ်နိုင်ပါက		
		၄င်းပစ္စည်းများကို ခွင့်ပြုထားသော နေရာများတွင်သာ		
		စွန့်ပစ်ရမည်။		
		• လုပ်ငန်းအဆုံးသတ် စွန့် ပစ်ပစ္စည်း စွန့် ပစ်ခြင်း အတွက်		
		မင်္ဂလာဒုံမြို့နယ်ရှိ စည်ပင်သာယာ နှင့် ဆက်သွယ်ရမည်။		
ဖျက်သိမ်းရေးလုပ်ငန်းများ	ဖြစ်လာနိုင်သော	• မြေတူးစဉ် အဆိပ်အတောက်ဖြစ်နေသော	2,000	SC Auto
ကြောင့် မြေအောက်ရေညစ်	ညစ်ညမ်းမှုများကို	ပစ္စည်းများကိုရှာဖွေရန် လုပ်ထုံးလုပ်နည်းများထားရှိရမည်။		
ညမ်း မှု	တားဆီးရန်	• တူးဖော်ရရှိထားသောပစ္စည်းများကိုစုပုံထားပြီး		
		ကာထားခြင်း။		
		• အဆိပ်အတောက်ဖြစ်နေသော ပစ္စည်းများကိုရှာဖွေရ		
		ရှိပါက သင့်တော်စွာ သိုလှောင်ခြင်း။		

စီမံကိန်းလုပ်ငန်းခွင်၏ ပြန်လည်ထူထောင်ရေး	သဘာဂပေါက်ပင်များ ၏ပျက်စီးမှု၊ မြေသားပုံပျက်မှု တို့နည်းစေရန်၊ လုပ်ငန်းခွင်ကို ပြန်လည်ထူထောင်မှု ရှိစေရန် သေချာအောင်လုပ် ေ ဆာင်ခြင်း	 လုပ်ငန်းခွင်အတွင်း ပစ္စည်းများ နှင့် စက်ကိရိယာများကို သင့်တော်စွာကိုင်တွယ်ပြီး သို့လှောင်ခြင်းဖြင့် မြေအောက်ရေ နှင့် စီးဆင်းရေ ညစ်ညမ်းမှုကို တားဆီးနိုင်သည်။ လုပ်ငန်းခွင်၏မူလအခြေအနေအတိုင်းပြန်လည်ရရှိအောင် သဘာဂပေါက်ပင်များကိုပြန်လည်စိုက်ပျိုးသည့် သင့်တော်သော အစီအစဉ် များကို အကောင်အထည်ဖော်လုပ်ဆောင်ခြင်း။ သဘာဂပေါက်ပင်များကိုပြန်လည်စိုက်ပျိုးသည့်အချိန် အတွင်း မျက်နှာပြင်တိုက်စားမှုမှကာကွယ်ရန် မျက်နှာပြင်စီးဆင်းရေကို သင့်တော်သော ထိန်းသိမ်းမှုများလုပ်ဆောင်ရမည်။ ထိုဧရိယာ၏လေ့လာစောင့်ကြည့်ခြင်းနှင့် ကြည့်ရှုထိန်းသိမ်းခြင်း အတွက် တိုက်စားခြင်း၏လက္ခကာရပ်များကို ကောက်ယူပြီး မည်သည့် အခြေအနေကိုမဆို မှန်ကန်စေရန် သင့်တော်သည့်ဆောင်ရွက်မှုများ ကိုလုပ်ဆောင်သွားရမည်။ အသစ်စိုက်ပျိုးထားသောဧရိယာကို နှောက်ယှက်မှု မရှိစေရန် တားမြစ်ဆိုင်းဘုတ်များ၊ ခြံဂန်းများ ကာထားခြင်းလုပ်ရမည်။ ညှစ်ညမ်းနေသောမြေဆီလွှာများကိုပစ်ပြီး အခြားဘက်ရှိ မသစ်ညမ်းနေသောမြေဆီလွှာများကိုပစ်ပြီး အခြားဘက်ရှိ 	2,000	SC Auto
ကျန်းမာရေး နှင့် ဘေးကင်း	အလားအလာရှိသော	မညစ်ညမ်းသောမြေဆီလွှာများနှင့် အစားထိုးရမည်။ • လုပ်ငန်းဖျက်သိမ်းခြင်းတွင် အလုပ်သမားများ၏	2,000	တည်ဆောက် ရေး

SC Auto (Myani	nar) Co., Ltd.
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လုံခြံုရေး	လုပ်ငန်းခွင်အန္တရာယ်မ ျားကိုရှောင်ရှားရန်	ဘေးကင်းလုံခြုံခြင်းသည် အခြားသောကိစ္စများထက် ဦးစားပေးရမည်။ • လိုအပ်ပါက တစ်ဦးချင်းအကာအကွယ်ပစ္စည်းများ ထောက်ပံ့ရမည်။ • ထိခိုက်မှုများဖြစ်ပွားခြင်းမှရှောင်ရှားရန် လှေကားများ နှင့် အခြားအန္တရာယ်ရှိသောနေရာများတွင်လက်ရန်းများ တပ်ထားရမည်။ • အလုပ်သမားများအတွက် အရေးပေါ် ကျန်းမာရေး နှင့် သန့် ရှင်းရေးစောင့်ရှောက်မှုများပေးရမည်။ • ဖျက်သိမ်းသည့်လုပ်ငန်းခွင်အတွင်း မီးသတ်ဘူးများ၊ ချိတ်၊ ပုံး၊ ရေလှောင်ကန်များ ကဲ့သို့သော အရေးပေါ် မီးသတ်ကိရိယာများ အဆင်သင့်ထားရှိရမည်။		လုပ်ငန်း တာဝန်ယူသူ
လူမှုစီးပွားရေးဆိုင်ရာ သက်ရောက်မှုများ	ပင်ငွေ၊ ဘပအဆင့်အတန်း နှင့် ဆေးဘက် ဆိုင်ရာ အာမခံများ စသည်တို့ လျော့နည်းလာခြင်းမှ ကာကွယ်ရန်။	 အလုပ်သမားအင်အားစုတွင်ပါပင်သော အလုပ်အကိုင် ရှာဖွေခြင်း နှင့် အလုပ်ပြန်လည် ခန့် အပ်ရန် အထောက်အကူပေးခြင်း။ အလုပ်သမားများကို လျော်ကြေးပေးခြင်း နှင့် အခြားနေရာမှအခွင့်အလမ်းများရှာဖွေရာတွင် သင့်တော်သောအကြံပြုချက်များပေးခြင်း။ ငွေကြေးပိုင်းဆိုင်ရာကိစ္စရပ်များအပေါ် ကမ်းလှမ်းချက် နှင့် အကြံဉာက် များပေးခြင်း။ 	1,000	တည်ဆောက် ရေး လုပ်ငန်း တာဝန်ယူသူ

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုရေးအစီအစဉ်

တည်ဆောက်ရေးနှင့် ပိတ်သိမ်းခြင်းကာလတွင် ပတ်ဝန်းကျင်အချက်အလက်များကို အကဲ ဖြတ် ခြင်း လုပ်ငန်းသည် အထူးအရေးပါပြီး ယင်းအချက်များကို အခြေခံ၍ ပတ်ဝန်းကျင်စောင့် ကြပ်ကြည့်ရှု ရေးလုပ်ငန်းစဉ်များကို လုပ်ဆောင်ရပါမည်။ ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှုရေး အစီအစဉ်တွင် ပါဝင်မည့်လူများ သည် တိုင်းတာရရှိထားသည့် အချက်အလက်များကို ညွှန်းကိန်းအဖြစ် အသုံးပြု လည်ပတ်ရေး ကာလမှ ရရှိသည့် အခြေအနေများကို သုံးသပ် ချိန်ထိုးရပါမည်။

စောင့်ကြပ်ကြည့်ရှုခြင်းအစီအစဉ်သည် ပတ်ဝန်းကျင်ထိခိုက်မှုမရှိရန် ကောင်းစွာကြပ်မတ် နိုင်ပါ သည်။ အောက်ဖော်ပြပါ ပုံမှန်စောင့်ကြပ်ကြည့်ရှုခြင်း အစီအစဉ်သည် စက်ရုံတည်ဆောက် ပြီးစီးချိန်တွင် ဆောင်ရွက်ရမည့် ကနဦးပတ်ဝန်းကျင်ဆန်းစစ်ခြင်းအစီရင်ခံစာပါညွှန်ကြားချက်များ အတိုင်းလိုက်နာ ဆောင်ရွက်ရပါမည်။

ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုရေးအစီအစဉ်တွင် တည်ဆောက်ရေးကာလ၊ လည်ပတ်ရေး နှင့် ပိတ်သိမ်းရေးကာလ အခြေအနေနှစ်ရပ်ကို ထည့်သွင်းဖော်ပြရပါမည်။

စောင့်ကြပ်ကြည့်ရှုတိုင်းတာ ရမည့် အစီအစဉ်များ	တိုင်းတာသည့် အချက်အလက်	နေရာ	အကြိမ် အရေအတွက်	တာဝန်ယူမှု
	ဆောက်လုပ်	ရေး/ ပိတ်သိမ်းခြင်းက	ာလ	
လေအရည်အသွေး	TSP, Particulate, VOC, CO, CO2, NO2, SO2	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေး လုပ်ငန်းခွင်	ဆောက်လုပ်ရေးကာ လအတွင်းတကြိမ် တိုင်းရန်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
	 စက်ပစ္စည်းများပြင်ဆင် ထိန်းသိမ်းမှုမား မှတ် တမ်းတင်ခြင်း ဖုန်မှုန်ထွက်ရှိမှုများ သောလုပ်ငန်းများအား မှတ်တမ်းတင်ခြင်း 	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေး လုပ်ငန်းခွင်	လစဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
မြေထုအရည်အသွေး	 စတိုးများသိုလှောင်ကန် များမှဓာတုပစ္စည်း နှင့် အဆိပ်ရှိ ပစ္စည်းများ ထုတ်လွှတ်/ ယိုစိမ့်မှု အခြေအနေ ယာဉ်များမှဓာတုပစ္စည်း များ၊စက်ဆီချောဆီများ ယိုစိမ့်မှု 	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေးလုပ် ငန်းခွင်	လစဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
ရေအရည်အသွေး	ယာယီ မိလ္လာကျင်းများ နှင့် မိလ္လာစွန့်ပစ်မှုစနစ်၊ ယာယီ ရေမြောင်းစနစ်များအားစစ် ဆေးရန်	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေးလုပ် ငန်းခွင်	လစဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
ရေအသုံးပြုမှု	နေ့စဉ်ရေသုံးစွဲမှုပမာက	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေး လုပ်ငန်းခွင်	လစဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ

SC Auto (Myanmar) Co., Ltd.

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ရာညံသံ	ပြင်းထန်မှုတိုင်းတာ ခြင်း	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေး လုပ်ငန်းခွင်	လစဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
စွန့်ပစ်ပစ္စည်းစွန့်ပစ်မှု	 အလုပ်သမားများ၏ အစိုင်အခဲ နှင့်မိလ္လာ ထွက် စွန့်ပစ်ပစ္စည်း များပမာက မှတ်တမ်း သိုလှောင် ဧရိယာ အားစစ် ဆေးခြင်း 	အလုပ်သမား များနှင့် ရပ်ကွက် ပတ်ဝန်းကျင် ဧရိယာ	နေ့စဉ် တွေ့ရှိ ချက်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
	 စွန့်ပစ်မှုဆိုင်ရာလိုအပ် ချက် အတိုင်းစွန့်ပစ် သောဆောက်လုပ်ရေး စွန့်ပစ် ပစ္စည်းပမာက မှတ်တမ်း အန္တရာယ်ရှိ သော စွန့်ပစ် ပစ္စည်းနှင့် အန္တ ရာယ်မရှိသောစွန့်ပစ် ပစ္စည်းအားခွဲခြား ခြင်း သိုလှောင်ဧရိယာ အား စစ် ဆေးခြင်း 	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေးလုပ် ငန်းခွင်	အပတ်စဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
အလုပ်အကိုင်ရရှိမှု	အလုပ်အကိုင်ရရှိသူ ဦးဖေရ	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေး လုပ်ငန်းခွင်	လစဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
အခြားလူမှုစီးပွားအတွက် ထည့်သွင်းစဉ်းစားချက်များ	 လူမှုစီးပွားတာဝန်ယူမှု အစီအစဉ် ဒေသခံများအလုပ်အ ကိုင်ဖန်တီးပေးမှု 	စောင့်ကြည့် လေ့လာရေးအဖွဲ	လစဉ်	ဆောက်လုပ်ရေး ကန်ထရိုက်တာ
လုပ်ငန်းခွင်ကျန်းမာ ရေး နှင့် ဘေးအွန္တ ရာယ် ကင်းရှင်းရေး	ဘေးအန္တရာယ်ကင်း ရှင်း ရေး အစီအစဉ်၊ မတော် တဆမှုမှတ်တမ်း၊ အလုပ် အကိုင် မှတ်တမ်း	အလုပ်သမား များ	လစဉ်	ဘေးအွန္တရာယ်ကင်းရှင်း ရေး အရာရှိ
အများပြည်သူကျန်းမာရေး နှင့် ဘေးအွန္တရာယ်ကင်းရှင်း ရေး	မတော်တဆမှုမှတ် တမ်း နှင့်အလုပ်အကိုင်မှတ် တမ်း	ဒေသခံတွင်း နေ ထိုင်သူ များ	အခြေအနေများ ပေါ် မူတည်၍	ဘေးအွန္တရာယ်ကင်းရှင်း ရေး အရာရှိ
အရေးပေါ် အခြေအနေ	မတော်တဆမှု မှတ်တမ်း၊ ဘေးအွန္တရာယ်ကင်းရှင်းရေး သင်တန်းပေးခြင်း	ဆောက်လုပ် ရေးလုပ်ငန်းခွင်၊ ပိတ်သိမ်းရေးလုပ် ငန်းခွင်	လစဉ်	ဘေးအွန္တရာယ်ကင်းရှင်း ရေး အရာရှိ
 လုပ်ငန်းလည်ပတ်သည့်ကာလ				
				2
လေအရည်အသွေး	Particulate matter, VOC, CO, CO2, NO2, SO2	ပတ်ဝန်းကျင် လေထု	နှစ်စဉ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်

SC Auto (Myanmar) Co., Ltd.

	Particulate matters, VOC	လုပ်ငန်းစဉ်ဇရိယာ -ဉပမာ ကားဆေး မှုတ်ခန်း၊စတိုး၊ ကားတပ်ဆင် သောနေရာ	နှစ်စဉ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
	မီးစက်မီးနိုးခေါင်းတိုင်မှ ထွက် သော အငွေ့များ (CO, CO2, NO2, SO2)	မီးစက်ခေါင်းတိုင်	နှစ်စဉ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
စွန့်ပစ်ရေအရည် အရည်အသွေး	စွန့်ပစ်ရေ (Temp:, pH, oil & grease, suspended solid, BOD, COD ,etc)	စက်ရုံရှေ့မြောင်း ရေ နှင့် စက်ရုံ တွင်း မြောင်း အထွက်	တစ်နှစ် ၂ ကြိမ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
	မြေအောက်ရေ (pH, Arsenic, Cl)	ရေစုကန်	တစ်နှစ် ၂ ကြိမ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
စွန့်ပစ်ပစ္စည်းစွန့်ပစ်မှု	 ပလပ်စတစ်၊ စည်ပုံး၊ စက္ကူပုံးနှင့် စွန့်ပစ်ရေ သန့်စင်ရုံမှ ထွက် သောရွံ့နွံများစွန့်ပစ်မှု ပမာဏ အား မှတ်တမ်း တင် ခြင်း အမှိုက်သိမ်း စနစ်အား စစ်ဆေးခြင်း သိုလှောင်မှုအား စစ် ဆေးခြင်း သိုလှောင်မှုအား စစ် ဆေးခြင်း စွန့်ပစ်ပစ္စည်းများအားခွဲ ခြား ခြင်း (အန္တရာယ်ရှိ သော စွန့်ပစ် ပစ္စည်း နှင့် အ္တန္တရာယ်မရှိ သောစွန့်ပစ် ပစ္စည်း) 	စက်ရုံပတ်ဝန်း ကျင်	လစဉ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
မြေဆီလွှာညစ်ညမ်းမှု	ဆီများယိုစိမ့်ခြင်း၊ ဖျော်ရည်၊ သုတ်ဆေး၊ စွန့်ပစ်ရေ ဖရိ ယာမှ ဖိတ်စင်ခြင်း	ကျင်၊ဓာတု ပစ္စည်း သိုလှောင်ဇရိ ယာ၊ လောင်စာ ဆီ သိုလှောင် ဇရိယာ၊ ဘွိုင် လာခန်း၊ ဂျင်နရေတာခန်း	နှစ်စဉ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
ဆူညံသံနှင့်တုန်ခါမှု	ဆူညံသံနှင့်တုန်ခါမှု အဆင့်	စက်ရုံဝန်းကျင်၊ လုပ်ငန်းခွင်	နှစ်စဉ် နှင့် ညွှန်ကြား ချက်အ တိုင်း	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
အနံ့အသက်	လေဝင်လေထွက် ကောင်းမွန်မှုအား စစ်ဆေးခြင်း	အလုပ်ရုံ နှင့် သို လှောင်ရုံ များ	လစဉ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်
အန္တရာယ်ရှိပစ္စည်းများ နှင့် ဓာတုပစ္စည်းများ	 ကားမှုန်ဆေး နှင့် fiber ကော် ပစ္စည်းများ စသည်တို့ကို ကိုင် တွယ်ခြင်း၊ အသုံးပြု ခြင်းများကို စစ်ဆေး 	အလုပ်ရုံ နှင့် သိုလှောင်ရုံများ	လစဉ်	စက်ရုံမန်နေဂျာနှင့် တာဝန်ခံပုဂ္ဂိုလ်

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	ခြင်း • သိုလှောင်ဇရိယာများ အား စစ်ဆေးခြင်း • စွန့်ပစ်ခြင်း နည်းစနစ် များအား စစ်ဆေး ခြင်း			
လုပ်ငန်းခွင်ကျန်းမာရေး နှင့်ဘေးအွန္တရာယ် ကင်း ရှင်းရေး	 လုပ်ငန်းခွင်ဘေးအွန္တ ရာယ်ကင်းရှင်းရေ နှင့် မတော် တဆမှု များ မှတ်တမ်း ဝန်ထမ်းတစ် ဦးချင်းစီ ၏ ဆေး မှတ် တမ်း ဝန်ထမ်းတစ် ဦးချင်းစီ ၏ ဆေး မှတ် တမ်း တေးအွန္တရာယ် ကင်း ရှင်းရေးသင်တမ်းများ ပေးခြင်း သင့်တော်သော် PPE များထောက်ပံ့ပေးခြင်း PPE များအားပုံမှန်စစ် ဆေးခြင်း 	စက်ရုံပတ်ဝန်း ကျင်	တစ်နှစ် ၂ ကြိမ်	ဘေးအန္တရာယ်ကင်းရှင်း ရေး အရာရှိ
အခြားလူမှုစီးပွားအတွက် ထည့်သွင်းစဉ်းစားချက်များ	 လူမှုစီးပွားတာဝန်ယူမှု အစီအစဉ် ဒေသခံများအလုပ်အ ကိုင်ဖန်တီးပေးမှု 	စောင့်ကြည့် လေ့ လာ ရေး အဖွဲ့	နှစ်စဉ်	လူမှုဆက်ဆံရေး မန်နေဂျာ
အရေးပေါ် အခြေအနေ	 အရေးပေါ် မတော် တဆဖြစ်ပွားမှု များ နှင့် ၎င်းတို့ အား ဖြေရှင်း မှု အစီအစဉ် မှတ်တမ်း မီးသတ်ပစ္စည်းများစစ် ဆေးခြင်း မီးသတ်သင်တန်းများ ပေးခြင်း 	စက်ရုံပတ် ဝန်းကျင်	နှစ်စဉ်	ဘေးအွန္တရာယ်ကင်းရှင်း ရေး အရာရှိ
နယ်စပ်ဖြတ်ကျော်ပတ်ဂန်း ကျင်ဆိုင်ရာကိစ္စ များ	N/A	-	-	-

အများပြည်သူနှင့်တွေ့ဆုံဆွေးနွေးမှု

ကနဦးပတ်ဝန်းကျင်ဆန်းစစ်ခြင်း အစီရင်ခံစာအတွက် အများပြည်သူနှင့်တွေ့ဆုံဆွေးနွေးခြင်း (PCM) နှင့် ထုတ်ဖော်ကြေညာခြင်း (PD) လုပ်ငန်းစဉ်များကို စီမံကိန်းနှင့်ပတ်သက်၍ အများပြည်သူထံမှ သဘောထား အမြင်များ၊ အကြံပြုချက်များကို ရရှိစေရန်နှင့်လုပ်ငန်း၏ ကနဦးပတ်ဝန်းကျင်ဆန်းစစ်ခြင်း လေ့လာမှုအတွက် သတင်းအချက်အလက်များ ဖြန့်ဝေပေးရန်အတွက် ပြုလုပ်ခြင်းဖြစ်သည်။

အများပြည်သူနှင့်တွေ့ဆုံဆွေးနွေးပွဲကျင်းပခြင်း

တွေ့ဆုံဆွေးနွေးပွဲတွင် နည်းလမ်း (၂) ရပ်ဖြင့်အကြံပြုနိုင်ရန်စီစဉ်ပေးခဲ့ပါသည်။ ပထမ တစ်မျိုးမှာ တက်ရောက်သူများမှ ပွဲတွင်ပါဂင်ဆွေးနွေးခြင်း နှင့် နောက်တစ်နည်းမှာ အကြံပြုစာများ ဖြန့်ဂေပေးခြင်းဖြစ် ပါသည်။

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SC Auto (Myanmar) Co., Ltd.

ဆွေးနွေးပွဲတက်ရောက်သူများမှ ရှင်းလင်းတင်ပြမှုပီးသောအခါ အကြံများပေးခြင်းသိလိုသည်များ မေးမြန်းခြင်းများပြုလုပ်ခဲ့ပါသည်။ ဆွေးနွေးပွဲတွင်အကြံပြုစာများမှအကြံများလည်းရရှိပါသည်။ ဆွေးနွေးပွဲကို ဇေကမ္ဘာကုမ္ပကီလိမိတက်၏ စီမံခန့်ခွဲမှုရုံးတွင်၂၀၁၈ ဇွန်လ ၁၈ ရက်နေ့ တွင်

ပြုလုပ်ခဲ့ပါသည်။ ဆွေးနွေးပွဲသို့ ဒေသခံ (၂၂) ဦးတက်ရောက်ခဲ့ပီး အကြံပြုစာ (၂၂) စောင်ရရှိခဲ့ပါသည်။ ဆွေးနွေးပွဲမှအဓိကဆွေးနွေးချက်များ နှင့် ပြန်လည်ဖြေရှင်းချက်များမှာအောက်ပါအတိုင်းဖြစ် ပါသည်။

အကြံပြုချက်ဆန္ဒသဘောထားများ	ဆောင်ရွက်ပေးမည့်အစီအစဉ်
 ယာဉ်များတပ်ဆင်ထုတ်လုပ်ခြင်းနှင့် ထိန်းသိမ်း ရေးလုပ်ငန်းဖြစ်သဖြင့် တပ်ဆင်မှုများအတွက် ဖြစ်ပေါ် လာသည့် ဆူညံသံများအား အတတ် နိုင်ဆုံးထိန်းချုပ်ပေးရန်လိုအပ်ပါသည်။ 	 ဆူညံသံလျော့နည်းရန်အတွက် စက်ပစ္စည်း များအား ပြင်ဆင်ခြင်း၊ ဆူညံသံထွက်သည့် စက်ပစ္စည်းများကို ကာရံခြင်းများ ပြုလုပ်ပါမည်။ ၎င်းနေရာတွင် လုပ်ကိုင်နေသော ဝန်ထမ်းများ အတွက် အကာအကွယ်ပစ္စည်းများ စီစဉ်ထားရှိ ပေးပါမည်။
 လုပ်ငန်းခွင်တွင် ရေဆိုးစွန့်ပစ်မှုကိစ္စများ အတွက် စနစ်တကျပြုလုပ်ရန် လိုအပ်ပါသည်။ 	 ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် အရ နိုင်ငံတော်မှ သတ်မှတ်ချက်များနှင့်အညီ ဆောင်ရွက်ပါမည်။
 ရေမြောင်းစနစ်၊ ရေစီးရေလာစနစ်၊ စက်ရုံမှ ထွက်သော စွန့်ပစ်ရေများကို စနစ်တကျ ကောင်းမွန်အောင် လုပ်ဆောင်သင့်ပါသည်။ 	 သက်ဆိုင်ရာစက်မှုဇုန်စီမံခန့်ခွဲရေးကော်မတီသို့ တင်ပြ၍ လုပ်ဆောင်ပါမည်။
• အလုပ်သမားများ၏ လုပ်ငန်းခွင်အွန္တရာယ် ကင်းရှင်းရေးအတွက် (PPE)ထောက်ပံ့ပေးရန်၊ ပညာရေး၊ ကျန်းမာရေး၊ လုံခြုံမှု စောင့်ရှောက် ပေးရန်	• လုပ်သားများ လုပ်ငန်းခွင် ဘေးအွန္တရာယ် ကင်းရှင်းရေးအတွက် ဆောင်ရွက်ပေးပါမည်။
 သဘာဝပတ်ဝန်းကျင် မပျက်စီးစေရန်၊ လေထု ညစ်ညမ်းမှုမဖြစ်စေရန်၊ ဆူညံသံမထွက်စေရန် ဆောင်ရွက်ပေးပါ 	 ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အရ နိုင်ငံတော်မှ ချမှတ်ထားသော လမ်းညွှန်ချက် နှင့်အညီဆောင်ရွက်ပါမည်။
 အလုပ်သမားရရှိနိုင်မည့် အကျိုးခံစားခွင့်၊ ကျန်းမာ ရေးနှင့်ညီညွှတ်သောနေရာထိုင်ခင်းများ စီစဉ်ပေး ခြင်း၊ အလုပ်သမားများ စိတ်ရော ကိုယ်ပါ ကျန်းမာ ခြင်း အတွက် အစီအစဉ်များ ဆောင်ရွက်ပေးရန် 	 အလုပ်သမားဝန်ကြီးဌာနမှ ညွှန်ကြားထားသည့် အလုပ်ရုံများနှင့်ပတ်သက်သည့် ဝန်ထမ်းခံစားခွင့် နှင့်အညီ ဆောင်ရွက်ပေးပါမည်။
 Green Myanmar မှ တာဝန်ရှိသူများစက်ရုံသို့ ၂ လ၊ ၃ လ တစ်ကြိမ် လာရောက်စစ်ဆေး သင့်ပါ ကြောင်း 	 ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်ပါ စောင့်ကြည့် အဖွဲများမှ စောင့်ကြည့်တိုင်းတာ စစ်ဆေးခြင်းနှင့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်အတိုင်း ဆောင်ရွက်ပါမည်။
 ကာများဆေးမှုတ်လျှင် အမှုန်များ လွင့်နိုင်သော ကြောင့် လေသန့်ရှင်းစေရန် ပြုလုပ်ပေးပါ 	 ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်ပါ စောင့်ကြည့် အဖွဲများမှ စောင့်ကြည့်တိုင်းတာ

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	စစ်ဆေးခြင်းနှင့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်အတိုင်း ဆောင်ရွက်ပါမည်။
• ကာများဆေးမှုတ်လျှင် အမှုန်များ လွင့်နိုင်သော	• ကားဆေးမှုတ်ရာတွင် အထူးသီးသန့် အလုံခန်း
ကြောင့် လေသန့်ရှင်းစေရန် ပြုလုပ်ပေးပါ	များတွင် စနစ်တကျ စီစဉ်ထားရှိပြီး အမှုန်များ
	မလွင့်စေရန်
	အကာအရံများနှင့်အမှုန်စုပ်စနစ်များ
	စီစဉ်ဆောင်ရွက်ပါမည်။ ဝန်ထမ်းများ အတွက်
	အကာအကွယ်ပစ္စည်းများ
	ဖြည့်ဆည်းပေးပါမည်။
• စက်ရုံအနီးပတ်ဝန်းကျင်ရှိ ရေမြောင်းများ	 သက်ဆိုင်ရာစက်မှုဇုန်စီမံခန့်ခွဲရေးကော်မတီသို့
ရေစီးရေလာကောင်းအောင် ပြုလုပ်ပေးပါ	သတင်းပို့၍ ရေစီးရေလာကောင်းစေရန် ပြုလုပ်
	ပေးပါမည်။

လူမှုစီးပွားတာဝန်ယူမှုအစီအစဉ်

SC Auto (Myanmar) ကုမ္ပဏီလီမိတက်၏ လူမှုစီးပွားတာဝန်သိမှုရံပုံငွေကို နှစ်စဉ် ကုမ္ပဏီအမြတ် ၁ % ကို အသုံးပြုသွားမည်ဖြစ်ပါသည်။

နိဂုံး

ယခုတည်ဆောက်မည့် စက်ရုံကြောင့် ဒေသစံပြည်သူများ အလုပ်အကိုင်အခွင့်အရေးများ ပေါ်ထွန်း လာပြီး လူမှုစီးပွားဘဝတိုးမြင့်လာမည်ဟု ခန့်မှန်းသုံးသပ်၊ဴရပါသည်။ စက်ရုံကြောင့် လူများ အကျိုးခံစား ခွင့်ရမည်ဖြစ်ပါသည်။အစိုးရ၏ အခွန်ဝင်ငွေများတိုးပွားလာပါမည်။ယခုအကောင်အထည် ဖော်မည့်နေရာ သည် သစ်ပင်ပန်းမာန် နှင့် ရှားပါးတိရိစäာန်မျိုးများကျက်စားသည့်နေရာမဟုတ်ပါ။ ထို့ကြောင့် စီမံကိန်း နေရာသည် သဘာဝပတ်ဝန်းကျင်ကို ထိခိုက်မှုမရှိသည့် နေရာဖြစ်ပါသည်။ ထို့ပြင် ၄င်းစက်ရုံတွင်ထပ်မံကာ လေထု၊ မြေထုအားထိန်းသိမ်းကာကွယ်ခြင်းများအတွက် ထိန်းချုပ်ကာကွယ် သောစနစ်များ တပ်ဆင်ထား သည်မှာ ပြည့်စုံလုံ လောက်မှုရှိ ပါသည်။

ယခုအစီရင်ခံစာဖြစ်သည့် ကနဦးပတ်ဝန်းကျင်လေ့လာဆန်းစစ်ခြင်း တွင်ပါဝင်သည့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ်များအတိုင်း ကုစားမှုများကို တည်ဆောက်ရေး၊ လည်ပတ်ရေး နှင့် ပတ်သိမ်း ခြင်း ကာလများတွင် စံနစ်တကျ ဆောင်ရွက်ခြင်းဖြင့် ကြီးမားသော ပတ်ဝန်းကျင် ပျက်ဆီးမှုများ မဖြစ်နိုင်ပါ။ စီမံကိန်း ကြောင့် လူမှုစီးပွား ဖွံ့ဖြိုးမှုများကို ရရှိမည်ဖြစ်ပါသည်။ ယခုကနဦး ပတ်ဝန်း ကျင်လေ့လာဆန်း စစ်ခြင်းအစီရင်ခံစာတွင် ပါရှိသည့်အတိုင်း ဆိုးကျိုးများ ကို ဖော်ထုတ်ပြီး ကုစား မည့်နည်းလမ်း များ ကိုပါ ဆောင်ရွက်ခြင်းဖြင့် စီမံကိန်းကြောင့် ထိခိုက်မှု အနည်းဆုံး ဖြစ်မည်ကို လေ့လာတွေ့ ရှိရပါ သည်။

လေ့လာတွေ့ရှိချက် နှင့် အကဲဖြတ်ချက်များအရ ဆိုးကျိုးဖြစ်ပေါ် စေမည့် အချက်များကို ကုစား ဆောင်ရွက်ပါက ယခုစီမံကိန်းသည် အကောင်အထည်ဖော်ရန် သင့်တော်ကြောင်းတွေ့ ရှိရပါ သည်။ "Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

1.0 INTRODUCTION

1.1 Overview

Operation of industrial, service and certain commercial activities have impacts on environment. To consider the protection of environment and the health & safety of the community, the proper design and construction of industrial premise is a vital element of an effective environmental protection program for new / proposed industrial premises as well as on any planned expansion or modification of existing premises.

The preparation of an IEE Report is one of the requirements in the submission of application for an Environmental Clearance to Environment Conservation Department.

This document is the Initial Environmental Examination for the Manufacturing, Assembling and Sales of Vehicles and Related Business Activities project of SC Auto (Myanmar) Co., Ltd.

The proposed project mainly focuses on design and manufacturing of Buses/Coaches and parts for import substitution and export. SC Auto (Myanmar) design also includes assembly, repairs, services alter of vehicles inclusive of buses, coaches and support spare parts services and accessories and then it has purpose to produce vehicles as lorries, vans, cars and trucks.

Manufacturing facilities include vehicle assembly plants, which employ 355 people and produce 100 unit for local sales and 100 unit for export sales at first year.

1.2 Rationale of the IEE

The Project requires an initial environmental examination (IEE) to determine the nature and extent of impact from implementation of the Project. An IEE is also required as per the provision of the Environment Protection Act and Regulations of Government of Myanmar. In this regard, an IEE for the Manufacturing, Assembling and Sales of Vehicles and Related Business Activities project was prepared.

1.3 Objectives of the IEE

The main objective of the IEE is to identify impacts from the project implementation on physical, biological, socio-economic, and cultural environment of the project area, and to propose measures to avoid, minimize, mitigate, and compensate such impacts. The specific objectives of the proposed IEE are to:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on bio- physical, socio-economic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan, and
- Confirm that IEE is sufficient for the proposed work.

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

1.4 Structure of Report

This report reviews information on existing environmental attributes of the areas around the Study Area. Geological, hydrological and ecological features, air quality, noise, water quality, soils, social and economic aspects and cultural resources are included. The report predicts the probable impacts on the environment due to the proposed project. This IEE also proposes various environmental management measures. Details of all background environmental quality, environmental impact/pollutant generating activities, pollution sources, pollution control equipment, predicted environmental quality and related aspects have been provided in this report.

- Introduction
- Description of the Project
- Description of Environmental and Social Conditions
- Assessment of Environmental Impacts and Mitigation Measures
- Institutional Requirements Environmental Management Plan
- Public Consultation
- Findings, Recommendations and Conclusions

1.5 IEE Working Group

The planning and conduct of the IEE report for Manufacturing, Assembling and Sales of Vehicles and Related Business Activities Project was carried out by a team of Green Myanmar Environmental Services (GMES) Co., Ltd. - **Transitional Consultant Registration Number of Organization No.0006**. And then, Consultant personal qualification, Certificate of Organization and Personal are as shown in Appendix (1) and (2) respectively.

No.	Title of Post	Term of Reference	Nominee and Organization & Transitional Consultant Registration Number
1	Team Leader	 Overall management of IEE/EMP operation Work plan Technical meeting & Workshop Document Reviewing and Process Flow Studying Lead and Facilitation of Public consultation 	Engr-U Kyaw Soe Win Professional Engineer Managing Director Green Myanmar Environmental Services Co., Ltd. No.0019
		 Data compilation & analysis Coordination with stakeholders 	

Table	1.1	GMES	IEE	Team
1 auto	1.1	OWIED		I Cam

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			Se Auto (Myaninar) eo., Etu.
2	Consultant (Air Quality Management)	 Give Advice on collecting field data for air quality Assist on air quality control system Give Advice on air pollution evaluate and mitigation Give advice for data processing, computing, projection, modeling and analysis Give advice in report preparation 	Engr-U Sein Thaung Oo Professional Engineer Chairman Green Myanmar Environmental Services Co., Ltd. No.0023
3	Environmental Consultant	 Advise on the design of EMP Develop term of reference for duty and responsibility among EMP team Advise on the environmental baseline Advise on the field survey Facilitate technical analysis Streamline the Environmental Management Plan 	Engr. Daw Khin Swe Aye Former Lecturer. Department of Chemical Engineering, YTU No.0021
4	Consultant on Environmental Quality Management	 Assist in preparation of guideline for environmental sampling of air and water quality Monitor the sample collection Register and inspect the sample collected Assist in report preparation for environmental baseline 	Engr. Daw Khin Shwe Htay Former Lecturer, YTU Environmental Engineer No.0022
5	Consultant for Laboratory Analysis	 Advise on data processing and laboratory testing Prepare instruction for laboratory testing Check the result of environmental laboratory testing Compare the laboratory result and verification 	U Myo Myint Former Factory Manager of Alcohol Distillery Beelin, Ministry of Industry (1) No.0026
6	Specialist on waste management	• Collecting field data for industrial and municipal waste	Engr. Daw Tin May Soe, Former Professor, YTU Experience in environmental

SC Auto (Myanmar) Co., Ltd.

			SC Auto (Myanniar) Co., Ltu.
		 Assist in Laboratory Testing Data processing, computing, projection, modeling and analysis Assist in report preparation 	toxicology and pollution control No.0028
7	Specialist on Water quality	 Collecting surface and ground water quality samples Assist in Laboratory Testing Data processing, computing, projection, modeling and analysis Assist in report preparation 	Engr. Daw Aye Aye Kyaw Former Professor, YTU Experience in Water Management Professional Engineer
8	Social Operation and Field Coordinator	 Develop operational checklist for Social Survey Facilitate technical meeting and record keeping Assist in data mining and secondary data collection Coordinate with local authority and communities for village level meeting 	U Khin Aung GMES Co., Ltd.
9	Environmental Consultant	 Advise on the design of EMP Develop terms of reference for duty and responsibility among EMP team Advise on the environmental baseline Advise on the field survey Advise on data processing and laboratory testing Facilitate technical analysis Streamline the EMP report and Environmental Management Plan 	Engr. U Maung Maung Aye Construction Coordinator Badamyar Topside Construction, Total E&P Myanmar)
10	Quality Engineer	 Develop operational checklist for Environmental Study In charge for preliminary field visit Establish field operational office for EMP field survey Supervise field survey Check the report quality and formatting 	U Kyi Han Bo BE – Aerospace Fuel and Propellant Engineer (Myanmar Aerospace Engineering University.)
11	Technician	 Environmental and Social Survey Data analysis 	U Myo Thet Naung BE – Aerospace Fuel and Propellant Engineer.

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		• Report preparing and formatting	 (Myanmar Aerospace Engineering University.) U Aung Kyaw Than BE. Chemical Engineer U Myo Min Htun B.Sc (physic)
12	Water Sampling and Laboratory Testing	 Preparation for water & wastewater sampling Preparation for laboratory testing Laboratory testing Reporting for laboratory result 	Daw Cheey Twin, B.E Chemical Laboratory Manger Daw Wint Phyu Htway, B.E Chemical Laboratory Supervisor
			Daw Aye Thuzar Hein, B.E Chemical Laboratory Technician Green Myanmar Environmental Services Co., Ltd.

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2.0 POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

2.1 Background

The emerging environmental scenario calls for attention on conservation and judicious use of natural resources. There is a need to integrate the environmental consequences of the development activities and for planning suitable measures in order to ensure sustainable development. The environmental considerations in any developmental process have become necessary for achieving sustainable development. To achieve such goals, the basic principles to be adopted are:

- To enhance the quality of environment in and around the project area by adopting proper measures for conservation of natural resources;
- Prevention of adverse environmental and social impact to the maximum possible extent;
- To mitigate the possible adverse environmental and socio-economic impact on the project-affected areas.

Policy, legal and institutional framework of the proposed project relating to the environmental, social, health and economic conditions are discussed in this section.

2.2 Policy and Legal Framework

This section highlights the relevant environmental policies and legal established by The Government of The Republic of The Union of Myanmar for purposes of environmental protection towards the process of sustainable development. Myanmar Government issued an Environmental Policy in 1994, Myanmar Agenda 21 in 1997, National Sustainable Development Strategy in 2009, The Environmental Conservation Law in 2012, Environmental Conservation Rules in 2014, Environmental Impact Assessment Procedure and National Environmental Quality (Emission) Guidelines in 2015.

To establish sound environment policies, utilization of water, land, forests, mineral, marine resources and other natural resources in order to conserve the environment and prevent its degradation, Ministry of Natural Resources and Environmental Conservation (MONREC) of the Government of The Republic of The Union of Myanmar has established National Environmental Policy of Myanmar (2019) which broadly aim at:

• To establish national environmental policy principles for guiding environmental protection and sustainable development and for mainstreaming environmental considerations into all policies, laws, regulations, plans, strategies, programmes and projects in Myanmar.

2.3 Legal Compliance and Environmental Commitments

2.3.1 Legal Compliance

SC Auto (Myanmar) Co., Ltd. endorse for this IEE Report as follow:

- The IEE is the accurate and complete,
- The IEE has been prepared in strict compliance with applicable laws including EIA Procedure (2015), and

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

• The Project will at all times comply fully with the commitments, mitigation measures, and plans in the IEE Report.

Legal and approval requirements applicable to the Project related to the environmental and social concerns will be identified by SC Auto (Myanmar) Co., Ltd.

The lifespan of the factory will be 50 years. So, SC Auto (Myanmar) Co., Ltd. will prepare the environmental management plan for decommissioning phase before the decommissioning and comply and implement according to that environmental management plan.

SC Auto (Myanmar) Co., Ltd. will comply the following Myanmar Acts, Laws, Rules, Regulations, Procedures and Guidelines relevant to the project described in Table 2.1 and Table 2.2.

Laws and Regulations	Year	Purpose/ Description
Administrative Sector		
The Penal Code of Offences Affecting the Public Health, Safety, Convenience, Decency and Morals	1861	Provisions related to prohibitions against contaminating public springs or reservoirs and "making atmosphere noxious to health"
The Towns Act	1907	Provisions on offences which affect the human environment
The Police Act	1945	Provisions on offences which affect the human environment
The Emergency Provisions Act	1950	Prohibitions on the destruction of embankments; causing extreme suffering to the public or loss of life; endangering the security or well-being of public reservoirs, water supply works, water pipe connections, and public dams; and poisoning drinking water
The Ward or Village Tracts Administration Law (Amendment)	2012 (2016)	Provisions on offences which affect the human environment
Culture and Heritage Sector		
Archive Properties	1962	To implement the protection and preservation
(Amendment) Act		policy with respect to perpetuation of cultural heritage that has existed for many years Provisions to protect ancient sites and regions and cultural heritage areas from any adverse
TheProtectionandPreservationofCulturalHeritage Regions Law	1998	impacts due to industrialization, tourism and urbanization
(Amendment)	(2009)	To protect and preserve the cultural heritage
TheProtectionandPreservationofAncient	2015	and New project in such sensitive areas is required to get prior approval from the Culture

Table 2.1 Myanmar Acts and Rules relevant to the Project

SC Auto (Myanmar) Co., Ltd.

Laws and Regulations	Year	Purpose/ Description
Monuments Law		
City Development Sector		
The Water Power Act	1927	Prohibitions on the pollution of public water
The Underground Water Act	1930	This Act provides the requirement for systematic use of ground water towards sustainable purpose
The City of Yangon	1990	Provisions relating to environmental
Development Law	(1995,	sanitation, pollution of air and water, and
(Amendment)	1996)	public health
Environmental Conservation Second	ector	
Environment Conservation Law	2012	To implement National Environmental Policy; to set up basic principles and guidelines for sustainable development and systematic integration of environmental conservation; to conserve the clean environment, natural and cultural heritage for present and future generation, to prevent degradation of natural resources and for sustainable use, to build up public understanding on environmental awareness
Environmental Conservation	2014	The Rules reinforce the obligation for project
Rules		developers to submit an EIA or an IEE. It aims to establish and adopt the necessary programs for the conservation and enhancement of environment, protection, control and reduction of pollution in environment, and conservation
Environmental Impact Assessment Procedures	2015	To establish types of project that needed to submit an EIA or an IEE or an EMP. And also to establish the environmental assessment process and to issue the environmental compliance certificate
National Environmental Quality (Emission) Guidelines	2015	To provide the basis for regulation and control of noise and vibration, air emissions, and liquid discharges from various sources in order to prevent pollution for purposes of protection of human and ecosystem health
Finance and Revenue Sector	4	
The Myanmar Insurance Law	1993	Requires any business which may pollute the environment to effect compulsory general liability insurance

SC Auto (Myanmar) Co., Ltd.

Laws and Regulations	Year	Purpose/ Description
Forestry Sector		
The Forest Law The Forest Rules	1992 1995	Provisions to conserve water, soil, biological diversity and the environment; sustain forest produce yields; protect forest cover; establish forest and village firewood plantations; sustainably extract and transport forest products
Protection of Wild Life and Wild Plants and Conservation of Natural Areas Law	1994	To protect wildlife, wild plants and conserve natural areas, to contribute towards works of natural scientific research, and to establish zoological gardens and botanical gardens. The Law highlights habits maintenance and restoration, protection of endangered and rare species of both fauna and flora, establishment of new parks and protected areas, and buffer zone management
Health Sector		
The Public Health Law	1972	For promoting and safeguarding public health and to take necessary measures in respect of environmental health
Prevention and Control of Communicable Diseases Law (Amendment)	1995 (2011)	The Law highlights the functions and responsibilities of health personnel and citizens in relation to prevention and control of communicable diseases. It also describes measures to be taken in relation to environmental sanitation, reporting and control of outbreaks of epidemics and penalties for those failing to comply. The law also authorizes the Ministry of Health to issue rules and procedures when necessary with approval of the government
The Control of Smoking and Consumption of Tobacco Product Law	2006	To protect from the danger which affects public health adversely by creating tobacco smoke-free environment; To uplift the health, economy and social standard of the public through control of smoking and consumption of tobacco product
Industrial Sector		
The Electricity Law	1984 2014	The law elaborates the responsibilities of the Inspectorate under the Ministry of Industry for ensuring safety in electricity in
The Electricity Rules	1985	generation, transmission and distribution. It includes the testing of all electrical goods produced domestically or imported. If safety

SC Auto (Myanmar) Co., Ltd.

Laws and Regulations	Year	Purpose/ Description
		is at risk the Inspector has the authority to disconnect supply to any customer. The Inspector also is responsible for determining cause of any injury or death caused by electricity, issuing electrician registration certificates, and establishing standards
The Petroleum Act	1934	Provisions to regulate production, storage,
The Petroleum Rules	1937	and transport of oil so as not to cause pollution or the outbreak of fires
The Factories Act (Amendment)	1951 (2016)	Provisions for the proper disposal of waste and effluents in factories; treatment of waste water; regulations for health and cleanliness in factories, and the prevention of hazards
The Private Industrial Enterprise Law	1990	Provisions to avoid environmental pollution.
The Prevention of Hazard from Chemical and Related Substances Law	2013	To protect from being damaged the natural environment resources and being hazardous any living beings by chemical and related substances To perform the sustainable development for the occupational safety, health and environmental conservation
National Planning and Econon	ic Develop	
Foreign Investment Law (Amendment) Foreign Investment Rules	2012 (2015) 2013	Provisions to restrict or prohibit investment activities which affect public health, the environment and ecosystems, which produce toxic waste or which engage with toxic chemicals; duties of investors to conduct business in such a way as to avoid environmental damage, air and water pollution, in accordance with existing laws
Myanmar Citizen Investment Law (Amendment)	2013 (2015)	Broad provisions supporting environmental conservation and protection and adherence to existing laws related to environmental matters; restrictions on businesses which cause damage to the natural environment and ecosystems.
Myanmar Investment Law (MIL) Transportation Sector	October 2016	The new investment law has been effective since April 1, 2017; the MIL combines the Foreign Investment Law (FIL) 2012 and the Citizens Investment Law 2013. The new investment law was created to attract both foreign and local investors by simplifying the application process and offering tax breaks, incentives, rights and protections for businesses.

SC Auto (Myanmar) Co., Ltd.

Laws and Regulations	Year	Purpose/ Description
The Canal Act	1905	Prohibitions against the destruction of, damage to, or pollution of the flow of water in any canal or drainage work
The Motor Vehicle Law	1964 2015	Provisions to control vehicle engine emissions and the leakage of fuel or oil
The Conservation of Water Resources and Rivers Law The Conservation of Water Resources and Improvement of River Systems Rule	2006 2013	The Conservation of Water Resources and Rivers Law (2006) prohibits carrying out any actions with the aim to ruin water resources, including rivers, and causing intentional water wastage, and pollution of water resources
Workforce Sector		•
The Workmen's Compensation Act (Amendment)	1923 (2005)	To make payments out-of-pocket to employees who become injured or who die in any accidents arising during and in consequence of their employment. Such compensation also must be made for diseases which arise as a direct consequence of employment, such as carpal tunnel syndrome
The Leave and Public Holidays Act (Amendment)	1951 (2014)	To allow worker for leave and holiday allowances, religious or social activities with earn allowance, and benefits for Health allowances Concerned workers: Daily wage workers/ temporary workers/permanent workers
Constitution of the Union of Myanmar	2008	Section 24 – The Union shall enact necessary laws to protect the rights of workers Section 349 (b) – Citizens shall enjoy equal opportunity in carrying out occupation Section 359 -The Union prohibits forced labor except hard labor as a punishment for crime duly convicted and duties assigned by the Union in accord with the law in the interest of the public.
The Labor Organization Law	2011	The objectives of this law are: To protect the rights of the workers in accordance with section 24 of the Constitution To promote good relations between the employer and the worker To enable to workers to form and carry out the labor organizations systematically and independently
The Development of Employment and Skill Law	2013	The main objectives of this law are: To facilitate employment which is appropriate to the age and ability of the job seeker

SC Auto (Myanmar) Co., Ltd.

Laws and Regulations	Year	Purpose/ Description
		To help workers obtain employment and to provide stability of employment and skills development for employees To help employers obtain appropriate employees
The Minimum Wage Law The Minimum Wage Rules	2013 2013	To fulfill the basic needs of the workers and their families who are working in commercial establishments, production and servicing establishments, agriculture and livestock. And, to develop the work performance and competitiveness of workers.
The Payment of Wage Law	2016	Receipt of wages is made regularly. Unlawful deductions are not to be made.
The Settlement of Labor Dispute Law (Amendment)	2012 (2014)	The objectives of this law are: For safeguarding the rights of workers. Promoting a good relationship between employer and workers and creating a peaceful workplace Obtaining the rights fairly, rightfully and quickly by settling disputes between employer and worker justly
The Social Security Law The Social Security Rules	2014 2014	The objective of this law is to get benefit for sickness, maternity, death, employment injury, invalidity benefit, superannuation benefit by: giving medical treatment, providing cash benefit or granting a right to residency

Table 2.2 Myanmar Legislation and Relevance to the Project

The	The Constitution of the Republic of the Union of Myanmar, 2008		
Description	 The Union shall enact necessary laws to protect the rights of workers. (section 24) The economic system of the Union is market economy system. (section 35) The Citizens shall enjoy equal opportunity in carrying out occupation. [section 349(b)] The Citizens shall enjoy equal opportunity in carrying our business. [section 349 (d) Every Citizen has in accord with the law, the right to conduct business freely in the Union for national economic development. (section 370) 		
Relevance to the Project	The project will manage to align with the concept of the constitution.		
	The Competition Law, 2015		
Description	• No entrepreneur shall obstruct or disturb directly or indirectly other economic business. (section 22)		
Relevance to	The project shall carry out to align with the guideline.		

the Project					
The Penal Code					
Description	 Voluntarily corrupts or fouls the water of any public spring or reservoir, so as to render is less fit for the purpose for which it is ordinarily used shall be punished. (section 277) Voluntarily vitiates the atmosphere in any place, so as to make it noxious to the health of persons in general dwelling or carrying on business in the neighborhood or passing along a public way shall be punished. (section 278) Doing any act so rashly or negligently with fine or any combustible matter or explosive substance or machinery shall be punished. (section 285,286+287) 				
Relevance to the Project	This is relevant to the discharging and emission of waste water and combustion gases from the project. The Project shall not cause water and air pollutions.				
	The Police Act, 1945				
Description	 No person shall commit the following acts: (section 34 (6), (9)) Throwing or placing any dirt, filth, or any stones or building materials, or causing any offensive matter to run from any house, factory or any road or in any open place or street may be taken into custody by any police. Neglecting to fence in on duly protect any well, tank or other dangerous place or structure. 				
Relevance to the Project	The project will manage to align with the law.				
The Ward or	Village Tract Administration Law, 2012 and the Ward or Village Tract Administration Rules, 2012				
Description	 The Ward or Village Tract Administrator shall cause the residents to work and reside peacefully and tranquility. [section 12 (c)] The Head of Ward or Village Tract shall report the entering of foreigners, residing of foreigners and occurring special events of foreigners to whom it concerns. (Rule 17) 				
Relevance to the Project	The project will manage to align with the law.				
	The Myanmar Fire Brigade Law, 2015				
Description	• Factory, industry, the business owner or manager of endangered from fire safety shall form the reserved fire brigade and shall keep the equipment related to fire safety. (section 25)				
Relevance to the Project	The project will manage to align with the law.				
	The Myanmar Investment Law, 2016				
Description	• The objectives are to protect the invertors and their businesses in accord with Law, to give opportunities of work for the people, to promote the production, service, trade of high capacity. [sections 3				

(b), (c) + (e)]
• The investor shall have the right to lease the land or building for long term from the owner if it is private or from the relevant government
department organization if it is state-owned or entitled to administer by the government. [section 50 (a)]
• The investor shall register the land lease contract at the office of
registry of deeds in accordance with the registration act. [section 50 (d)]
• The investor shall appoint skilled citizen and foreign workers, technicians, and staff by signing an employment contract between employer and employee in accordance with the labor laws and rules; [section 51 (d)]
• The investments are ensured not to centralize. (section 52)
• The investor shall not make any significant alteration of topography or elevation of the land on which he is entitled to lease or to use, without the approval of the commission; [section 65 (f)]
• The investor shall not affect, pollute, damage the natural and social environment and not to obscure cultural heritage in accord with the existing laws, rules, procedures and the best standards exercising internationally. [section 65 (g)]
• The investor shall list and keep proper records of books of account and annual financial statement, and necessary financial matters relating to the investments performed by permit or endorsement in accordance with internationally and locally recognized accounting standards; [section 65 (h)]
• The investor shall close and discontinue the investment only after payment of compensation to employees in accordance with applicable laws for any breach of employment contracts, closure of investment, sale and transfer of investment, discontinuation of investment, or reduction of workforce; [section 65 (i)]
• The investor shall pay wages and salaries to employees in accordance with applicable laws, rules, procedures, directives and so forth during the period of suspension of investment for a credible reason; [section 65 (j)]
• The investor shall pay compensation and indemnification in accordance with applicable laws to the relevant employee or his successor for injury, disability, disease and death due to the work; [section 65 (k)]
• The investor shall supervise foreign experts, supervisors and their families, who employ in their investment, to abide by the applicable laws, rules, orders and directives, and the culture and traditions of Myanmar; [section 65 (l)]
• The investor shall respect and comply with the labor laws; [section 65 (m)]
• The investor shall have the right to sue and to be sued in accordance with the laws; [section 65 (n)]
 The investor shall pay effective compensation for loss incurred to the
victim, if there are damage to the natural environment and socioeconomic losses caused by logging or extraction of natural

	 resources which are not related to the scope of the permissible investment, except from carrying out the activities required to conduct investment in a permit or an endorsement. [section 65 (o)] The investor shall allow the Commission to inspect in any places, when the Commission informs the prior notice to inspect the investment; [section 65 (p)] The investor shall take in advance permit or endorsement of the Commission for the investments which need to obtain prior approval under the Environmental Conservation Law and the procedures of environmental impact assessment, before undertaking the assessment, and shall submit the situation of environmental and social impact assessment to the Commission along the period of activities of the
	investments which obtained permit or endorsement of the
	Commission. [section 65 (q)] For insurance
	 The investor shall insure the types of insurance stipulated in the provision of the rules at any insurance enterprise which is entitled to carry out insurance businesses within the Union. [section 73]
Relevance to	early out institutee outsitesses within the emon. [seedon 75]
the Project	The project will manage to align with the law
D	Myanmar Investment Rules, 2017
Description	• The Investor must comply with the conditions of the Permit and other
	applicable laws when making an Investment. [section 202]The Investor shall fully assist while negotiating with the Authority for
	settling the grievances of the local community that have been effected
	due to Investments. [section 203]
	 If the Investor is desirous to appoint a foreigner as senior management, technician expert or consultant according to section 51 (a) of the Law, it shall submit such foreigner's passport, expertise evidence or degree and profile to the Commission Office for approval. [section 206] For Insurance
	 Every Investor that holds the Permit or Tax Incentives must have taken out the relevant insurance out of the following types of insurance at any insurance business that holds the license in the Union based on the nature of the business: [section 212] (a) Property and Business Interruption Insurance ;
	(b) Engineering Insurance ;
	(c) Professional Liability Insurance;
	(d) Professional Accident Insurance;
	(e) Marine Insurance; and(f) Workmen Compensation Insurance.
	(1) Workmen compensation institutee.
Relevance to the Project	 The project will manage to align with the rules.
	The Myanmar Insurance Law, 1993
Description	 Owners of motor vehicles shall effect compulsory Third Party Liability Insurance with the Myanma Insurance. (section 15) An entrepreneur or an organization operating an enterprise which

Relevance to the Project Description	 may cause damage to the life and property of the public or which may cause pollution to the environmental shall affect compulsory general liability insurances with the Myanmar Insurance. (section 16) The Ministry may determine from time to time the entrepreneurs or organizations which are to effect compulsory general liability insurances. (section 17) The project shall carry out to align with the guideline. The Income Tax Law, 1974 Income gained from the economic business shall be levied under the heading of economic business. [section 11 (a)] An entrepreneur shall send income annual list annually within three months after the end of the income year. (section 18)
Relevance to the Project	 According to the schedule, this project relates to this law.
The Commer	cial Tax Law, 1990 and the Law Amending the Commercial Tax Law, 2014
Description	 Carrying out the service business shall be levied tax stated in the schedule of this Law. [section 4 (d)] Carrying out the production business or service shall register to the township income tax officer as prescribed in the regulations. (section 11)
Relevance to the Project	✤ According to the schedule, this project relates to the law.
	The Money Laundering Law, 2014
Description	• Whoever commits the money laundering offence shall, or conviction, be punished with imprisonment for a term which may extend to 10 years or with a fine or with both. If it is a company or organization, it shall be punished with a fine which may extend to Kyat 500 million and the benefit holder shall be punished with imprisonment which may extend to 7 years. [Section 43]
Relevance to the Project	The project will manage to align with the law.
	The Import Export Law, 2012
Description	 No one shall import or export the prohibited goods. [section 5] No one shall import or export the goods without permit which are prescribed to obtain permit. [section 6] A person who obtained any license shall not violate the conditions contained in the license. [section 7]
Relevance to the Project	The project will manage to align with the law
	Yangon City Development Committee Law, 2018
Description	 Repair and removal of the dangerous buildings, components and parts and sanction to reside; [section 24, a (10)]

	• Cooperation in disaster prevention process, arranging firefighting equipment, demolition or cancellation of the fire-hazardous buildings and tents; [section 24, a (13)]
Relevance to the Project	The project will manage to align with the law.
the Project	The Environmental Conservation Law, 2012
Description	The following provisions are particularly relevant to Environmental
Description	Impact Assessment requirements and this project:
	For waste disposal,
	 A person causing a point source of pollution shall treat, emit, discharge
	and deposit the substances which cause pollution in the environment in accord with stipulated environmental quality standards. [section 14]
	 The owner or occupier of any business, material or place which causes
	a point source of pollution shall install or use an on-site facility or controlling equipment in order to monitor, control, manage, reduce or eliminate environmental pollution. If it is impracticable, it shall be
	arranged to dispose the wastes in accord with environmentally sound methods. [section 15]
	• A person or organization operating business in the industrial estate or business in the special economic zone or category of business stipulated by the Ministry: [section 16]
	(a) is responsible to carry out by contributing the stipulated cash or king in the relevant combined scheme for the environmental conservation
	including the management and treatment of waste;(b) shall contribute the stipulated users charges or management fees for the environmental conservation according to the relevant industrial estate; special economic zone and business organization;
	(c) shall comply with the directives issued for environmental conservation according to the relevant industrial estate; special economic zone or business
	For prior permission,
	• No one shall, without the prior permission operate business, work-site or factory, workshop which is required to obtain the prior permission under this law. [section 28]
	 For prohibition, No one shall violate any prohibition contained in the rules, notifications, orders, directives and procedures issued under this Law.
	[section 29] The duties and powers relating to the environmental conservation of the Ministry are as follows:
	 Managing to cause the polluter to compensate for environmental impact, cause to contribute fund by the organizations which obtain benefit from the natural environmental service system cause to contribute a part of the benefit from the business which explore, trade and use the natural resources in environmental conservation works;
Relevance to the Project	[section 7]The project shall carry out according to the directives of environmental

	conservation department.
	The Environmental Conservation Rules, 2014
Description	 The Environmental Conservation Rules, 2014 MOECAF launched Environmental Conservation Rules on 5 June 2014. The Rules reinforce the obligation for project developers to submit an EIA or an IEE. It aims to establish and adopt the necessary programs for the conservation and enhancement of environment, protection, control and reduction of pollution in environment, and conservation. The Environmental Conservation Rules stipulate the following relevant articles under Chapter (XI) Environmental Impact Assessment. The business department organization or person who would carry out categories of plan business or activity stipulated under rule 52: Shall carry out environmental impact assessment for his plan, business or activity; b. Submit to the Ministry in advance by which organization or person, the environmental impact assessment report to the Ministry. [section 54] The plan, business or activity which is established before the issue of these rules and responsible to carry out the environmental impact assessment report to the Ministry. The Ministry shall scrutinize the environmental impact assessment or initial environmental examination shall prepare the environmental management plan in accord with the environmental management plan for approving it. The person who carries out the project, business or activity shall implement the environmental management plan approved by the Ministry. [section 55] The person who carries out any project, business or activity shall arrange and carry out for conducting the environmental impact assessment for any project, business or activity shall arrange and carry out for conducting the environmental impact assessment for any project, business or activity shall, on submission to the Ministry in advance by which organization or person, the environmental impact assessment is intended to be carried out under sub-rule (b) of rule 54, determine and
	intended to be carried out under sub-rule (b) of rule 54, determine and decide, after making scrutiny, whether or not it is suitable level of international organization or person to carry out the environmental impact assessment. The decision of the Ministry relating to such
	 matter is final and conclusive. [section 57] The Ministry shall form the environmental impact assessment report Review Body with experts from relevant Government departments and organizations. [section 58] If private experts are included in the environment impact assessment
	 report Review Body, honorariums, expenses and allowances for them shall be borne from the environmental management fund. [section 59] The Ministry may assign the Department to scrutinize the report of environmental impact assessment prepared and submitted by a third party or an organization and report to the Ministry through the environmental impact assessment Review Body. [section 60]

Relevance to the Project The	 The Ministry may approve and reply the environmental impact assessment report or environmental management plan with the guidance of the Committee. [section 61] For Prohibitions Any person shall not carry out the actions which can be damaged to natural environment which is changing due to ecosystem and such system; except the permission of the relevant Ministry in order to the interest of the public. [section 69] This states to carry out environmental impact assessment. National Environmental Quality (Emission) Guidelines, 2015
Description	 These National Environmental Quality (Emission) Guidelines (hereafter referred to as Guidelines) provide the basis for regulation and control of noise and vibration, air emissions, and liquid discharges from various sources in order to prevent pollution for purposes of protection of human and ecosystem health. Para 4 states that these Guidelines refer to emission sources, and are intended to prevent or minimize adverse impacts to environmental quality or human health by ensuring that pollutant concentrations do not reach or exceed ambient guidelines and standards. The Guidelines apply to projects that generate noise or air emissions, and / or that have either direct or indirect discharge of process water, wastewater from utility operations or storm water to the environment. Para 6 mentions the provisions of the general and applicable industry-specific Guidelines shall be reflected in project environmental management plan (EMP) and environmental compliance certificate (ECC) and together constitute a project's commitment to take necessary measures to avoid, minimize and control adverse impacts to human health and safety, and the environment through reducing the total amount of emissions generation; to adopting process modifications, including waste minimization to lower the load of pollutants requiring treatment; and as necessary, to apply treatment techniques to further reduce the load of contaminants prior to release or discharge. Para 7 states recognizing that these Guidelines are intended to prevent pollution through reducing the mass of pollutants emitted to the environment, dilution of air emissions and effluents to achieve maximum permitted values is not acceptable. Specified guideline values should be achieved, without dilution, at least 95 percent of the time that a project is operating, to be calculated as a proportion of annual operating hours.
Relevance to the Project	 The project shall carry out to align with the guideline.
	Environmental Impact Assessment Procedure (2015)
Description	• The monitoring reports shall include: a) documentation of compliance with all Conditions; b) progress made to date on implementation of the EMP against the submitted implementation schedule; c)

difficulties encountered in implementing the EMP and recommendations for remedying those difficulties and steps proposed to prevent or avoid similar future difficulties; d) number and type of non-compliance with the EMP and proposed remedial measures and timelines for completion of remediation; e) accidents or incidents relating to the occupational and community health and safety, and the environment; and f) monitoring data of environmental parameters and conditions as committed in the EMP or otherwise required. [section 102]
• Within ten (10) days of completing a monitoring report as contemplated in Article 97 and Article 98 in accordance with the EMP schedule, the Project Proponent shall make such report (except as may relate to National Security concerns) publicly available on the Project's website, at public meeting places (e.g. libraries, community halls) and at the Project offices. Any organization or person may request a digital copy of a monitoring report and the Project shall, within ten (10) days of receiving such request, submit a digital copy via email or as may otherwise be agreed upon with the requestor. [section 103]
• The Ministry has the right, using its own officers at national, regional, state, Nay Pyi Taw Union Territory and/or local offices, the services of any consultant, or both, to conduct monitoring and inspections of a Project and activities related thereto in order to control and determine compliance by the Project with all applicable environmental and socio-economical requirements and, where possible, to prevent violations of the Project's obligations. The Ministry may also, for the implementation of monitoring and inspections, enlist the assistance of other relevant government departments and organizations. [section 104]
• If, upon inspection, the Ministry identifies any non-compliance with the EMP or Conditions in the ECC, the Ministry may require the Project Proponent to undertake remedial measures and/or may impose penalties as provided for in this Procedure. [section 105]
 For purposes of monitoring and inspection, the Project Proponent shall grant to the Ministry and/or its representatives, at any time during normal working hours and from time to time as and when the Ministry may reasonably require, access to the Project's offices and to the Project site and any other location at which the Project activities or activities related to the Project are performed. [section 106]
• In carrying out any inspection, the Ministry may take photographs and make other audio and video recordings of any type, take soil, sediment, water, and air samples, and examine computers, copy documents including digital files, interview persons, and carry out any other investigation which the Ministry believes to be necessary or appropriate. The Ministry, as it deems necessary, may carry out such inspection in coordination with any other ministries. [section 107]
• In the event of an emergency, or where, in the opinion of the Ministry, there is or may exist a violation or risk of violation of the compliance by the Project with all applicable environmental and social requirements, the Project shall grant full and immediate access

	 to the Ministry at any time as may be required by the Ministry, including outside normal working hours. [section 108] The Ministry's inspections may include without limitation sites, facilities, vehicles, computers, archives, documents and all other forms and types of media and information storage, and persons. [section 109] The Project Proponent shall further ensure that the Ministry's rights of access hereunder shall extend to access by the Ministry to the Project's contractors and subcontractors. [section 110] The Ministry shall indicate the manner in which environmental obligations are not being complied with by the Project Proponent, and shall give the Project a specified time period (determined by the Ministry to be reasonable under the circumstances) within which to bring the Project into compliance. [section 113] All costs of the Ministry to conduct inspection and monitoring of the Project shall be borne by the Project Proponent. Such costs shall not exceed that which is necessary to ensure the Project's compliance with the Project commitments as set out in the EMP and in the ECC. [section 115] The Ministry may require that Projects and other economic activities that derive from such policy, strategy, development plan, framework or program and which have been required to undertake a study to identify and assess the potential environmental and social impacts (as stipulated above) shall be developed and implemented (sited, designed, constructed and operated) in accordance with the environmental and social management and monitoring framework of such policy, strategy, development plan, framework or program. [section 117]
Relevance to the Project	 The project will manage to align with the procedure.
	The Standardization Law, 2014
Description	 A person desirous of obtaining quality recommendation shall apply to the department and organization which have obtained the accreditation certificate from the Department. [section 17] The Committee may, if it is found out that the person who has obtained the quality recommendation violates any term or condition contained in the relevant recommendation, take any of the following actions: [section 19] (a) warning; (b) suspending the quality recommendation If any person who has obtained the quality recommendation uses the standardization mark on the product or relating to service which does not meet the relevant standard shall be punished with imprisonment for a term not exceeding one year or with fine not exceeding Kyat one million or with both. [section 26]
Relevance to the Project	The project will manage to align with the law.

	Myanmar Engineering Council Law,2013	
Description	 If, whoever has received a registration certificate, is found to have breached any rules contained in the registration certificate or violated any prohibition contained in a rule, order or directive enacted under this law or in any stipulation of this law, the executive committee may take the following administrative actions- [section 34] (a) giving a warning; (b) assessing a suitable fine; (c) suspending the registration certificate; (d) cancelling the registration certificate. No one shall perform any engineering work and technological work which are specified as being dangerous to the public by a rule enacted under this law without having received a registration certificate issued by the council, except for engineers appointed in a government department or an organization in the performance of their duties. [section 37] 	
Relevance to the Project	The project will manage to align with the law.	
	The Electricity Law, 2014	
Description	 No electrical business shall be operated other than the business contained in the permit by any permit holder. [section 45] No one shall produce, transmit, connect, contact and use the electric power without electric safety certificate. [section 47] No one shall connect, waste, and utilize the electric power without the permission of the permit holder. [section 52] No one shall cut off the electric power line, transfer electricity, destroy electrical equipment and used in any electrical business. [section 53] 	
Relevance to the Project	 The provisions are to be cautious in operating this project. 	
	The Petroleum Act, 1934	
Description	 Import, transport or storage of petroleum shall be abided by the rules made under section and terms and conditions of the license that requires to obtain under the rules. [section 3] Dangerous petroleum (petroleum lower than 76°F which is flammable) shall be warned as a duty. [section 6] 	
Relevance to the Project	 This is relevant to the transport, storage, and usage of oil by the project. The project will manage to align with the law. Petroleum and Petroleum Products Law,2017 	
Deseriet		
Description	 Issuing licenses for motor vehicles, watercraft and barges for the carriage of petroleum and any types of petroleum products; [section 9 (a)] specifying the procedures and terms for transportation, except for transportation by pipelines. [section 9 (e)] Issuing storage licenses for warehouses and storage tanks; [section 10 (a)] 	

Relevance to	 issuing a transportation permit for motor vehicles, watercraft and barges for the transportation of petroleum and any types of petroleum products; [section 10 (b)] with regard to license applications under sub-section (a) and a permit under subsection (b), specifying the application period, forms and terms, application procedures, issuing body and fees to be collected; [section 10 (c)] on-the-spot investigation and taking action in accordance with the laws in force in case of environmental damages caused during the operation of petroleum and petroleum products businesses; [section 10 (d)] Every container which contains dangerous petroleum or any types of dangerous petroleum products shall display a warning through the placement of a mark, embossing, painting, printing or in other appropriate ways. If it is not possible to do so, a warning which is similar to a mark that warns of the dangerous nature of petroleum, spirit and petrol shall be displayed in easily visible words or signs. [section 11]
the Project	• m ', '11 , 1' ',1 ,1 1
inc i rojeci	The project will manage to align with the law.
D	The Private Industrial Enterprise Law, 1990
Description	 The salient basic principles to operate the industrial business are: (section 3) Any person conducting any private industrial enterprise on the day this Law is enacted; by using any type of power which is three horsepower and above or manpower of ten wage-earning workers and above shall register under this Law. (section 4) The duties of the entrepreneur are as follows: shall abide by the terms and conditions of the registration certificate; (section 13 b) shall shift the place of enterprise, change the nature of enterprise, amalgamate enterprises and split up enterprises only with the approval of the Directorate; (section 13 f) shall abide by the orders and directives issued from time to time by the Ministry and the Directorate; (section 13 g) The entrepreneur has the right to carry out the followings: appointing foreign exports and technicians with the approval of the Ministry; (section 15 a) carrying out change of the name of enterprise, transfer of ownership, temporary suspension or permanent closing down of the enterprise in the manner prescribed and with the approval of the Directorate. (section 15 b)
Relevance to	The provisions are to be cautious in operating this project.
the Project	ntion of Hazard from Chemical and Related Substances Law, 2013
<i>Description</i>	
Description	 A person who has obtained a license, before starting the respective chemical and related substances business:- shall be inspected for the safety and the power of resistance of the

 machinery and equipment by the respective Supervisory Board and Board of Inspection; (section 15 a) shall be attended the person who serve in the work to the respective foreign trainings or the trainings and the expert trainings on prevention of hazard from the chemical and related substances opened by the government department and the government organizations. (section 15 b) A person who has obtained a license: shall perform to abide strictly the instructions for being safety in using the chemical and related substances by himself and also the persons who serve the work; (section 16 b) shall keep the required safety equipment enough in the chemical and related substances businesses, furthermore shall grant the personal protection equipment and dresses free of charge to the working persons: (section 16 c)
 persons; (section 16 c) shall make the course of training and study and instruction if necessary to the working persons for using the occupational safety equipment, the personal protection equipment and the dresses systematically in the chemical and related substances business; (section 16 d) shall make medical checkup the working persons who will work in the chemical and related substances business and shall permit to serve in that work after obtaining the recommendation that his health is suitable
 for that work after obtaining the recommendation that his neutrin is suitable for that work. This medical checkup records shall be kept systematically; (section 16 f) A person who has obtained a license, shall put the insurance in accordance with the prescriptive stipulations to be able to pay the compensation, if the impact and damage is occurred on the Human Being and Animals or the environment in respect of the chemical and related substances businesses. (section 17)
 A person who has obtained the registration certificate shall abide the regulations consisted in the registration certificate furthermore shall also abide the order and instructions issued occasionally by the Central Supervisory Board. (section 22) A person who has obtained the license to be complied the following matters to control and decrease the hazard of the chemical and related substances:
 classifying the hazard level to protect in advance the hazard according to the properties of the chemical and related substances; (section 27 a) expressing the Material Safety Data Sheet and Pictogram; (section 27 b) providing the safety equipment, the personal protection equipment to
 protect and decrease the accident and attending to the training to be used systematically; (section 27 c) performing in accordance with the stipulations in respect of transporting, possessing, storing, using, discharging the chemical and related substances; (section 27 d) not being imported or exported the chemical and related substances
banned by the Central Supervisory Board and the machinery and equipment which are used them. (section 27 e)

Relevance to the Project	 Producing, using, possessing, storing, distributing, selling, transporting, importing, exporting the chemical or related substances prohibited by the Control Body, and Operating without licenses is prohibited. [section 33+34] Chemicals and related substances which are not registered, cancelled from the registration list has not reached the standard and quality shall be used in the business. [section 35] The project will manage to align with the law
	The Water Power Act, 1927
Description	• The law provides the use of public water.
	 Use of public waters, attempt to use of public waters occurrence of environmental pollution by the water flow, obstruction of water flow for producing water power energy or for prospecting minerals are prohibited to generate without license or not in conformity with the terms and conditions of the license. [section 3] The Deputy Commissioners may issue order to erect the materials constructed to affect the water power by violating the Act, order issued under the Act. [section 5]
Relevance to the Project	The Law is not relevant the proposed project and EIA study because the project site will not use public water for industrial purpose.
	The Underground Water Act, 1930
Description	 Digging tube wells shall be done only with the license issued by prescribing terms and conditions. [section 3] Digging underground water or attempt to do so shall be informed to the authorized official determined by the President. [section 5]
Relevance to the Project	The project will manage to align with the law.
The Conservat	ion of Water Resources and Rivers Law, 2006 and The Conservation of
	Water Resources and Rives Rules, 2013
Description	 For Prohibitions No person shall carry out any act or channel shifting with the aim to ruin the water resources and rivers and creeks. [section 8 (a)] Disposal of fuel, chemicals, poisonous substances and other substances which affect the natural environment from the shore, sailing, launched, anchored, stranded, sunk vessel or disposal of explosive substances are prohibit. [section 11] No one shall dispose of any substance into the river-creek that may cause damage to waterway or change of watercourse from the bank or vessel which is plying, vessel which has berthed, anchored, stranded or sunk. [section 19] No one shall drill well or pond or dig earth without the permission of the Directorate. [section 21(b)] No one shall, without the permission of the directorate, pile sand, shingle and other heavy materials for business purposes in the bank area and waterfront area. [section 22]

	not to cause water pollution and change of watercourse in rivers and creeks. [section 24 (b)]
Relevance to the Project	The project will manage to align with the law.
The	Motor Vehicle Law, 2015 and The Motor Vehicle Rules, 1989
Description	 Unregistered motor vehicle, motor vehicles of terminated, expired or cancelled motor vehicle registration are not allowed to drive in the public place. [section 45] Motor vehicle without insurance for injury shall not be used in the public place. [section 46] No one shall drive without license in the public place. [section 47] No vehicles shall carry more than the number or weight of goods which is permitted according to registration. [Rule 138]
Relevance to the Project	The project will manage to align with the law.
	The Highway Law, 2000
Description	 The aim of this law is to supervise systematically the use in highways. [section 3] Not to drive the vehicle in highways with the prescribed wheel type, weight. [section 8] Violating any prohibition to protect the damage of highway shall be used by the prescribed wheel type, find the prescribed wheel type, weight.
	 punished with imprisonment or with a fine. [section 9 (a)] It is liable to pay compensation or damage for damaging the highway. [section 9-A] No buildings shall be constructed in the highway area. [Rule 26 (b)]
Relevance to the Project	The project will manage to align with the law.
	Myanmar Public Health Law, 1972
Description	 Includes a general provision that empowers Union Government to carry out measures relating: To protect environment from gas, odor, dust, sound and radio activity which endanger in the public environment, [section 3 (1) (c)]. To keep the factory, industry, work site produced and sell food clean. [section 3 (2) (d)] Examine if necessary in the government laboratory. [section 3 (2) (h)] To be cautions to be in conformity with the standard prescribed by the Union Government from time to time. [3 (2) (i)]
Relevance to the Project	The project will manage to align with the law.
The Con	trol of Smoking and Consumption of Tobacco Product Law, 2006
Description	 This law aims to protect from the danger which affects public health adversely by creating tobacco-free environment and to up lift the health, economy, and social standard of the public through control of smoking and consumption of tobacco product. [section 3] The responsible person shall arrange the written statements that state

r	
	 non-smoking area in the prescribed places. [section 9 (a)] Smoking area shall be arranged and statements that show specific places for smoking area in non-smoking area provided in section 7. [section 9 (b)]
	 No one shall smoke in non-smoking area. [section 9 (c)]
	 Non-smoking areas are prescribed and smoking, turning, carrying,
	holding are liable to a fine. [sections 7+17]
Relevance to	notating are nable to a fine. [sections / +1/]
the Project	The project shall carry out to align with the law.
	The Factories Act, 1951
Description	Working hours
2000.000	 Shall not exceed 8 working hours per day or 44 hours per week
	[section 59+62]
	• Shall not exceed 48 hours per week for the work which has to be done
	continuously [section 59]
	• There must be a minimum 30 minutes interval after each 5 working
	hours [section 63]
	• The combined working hours and interval time shall not exceed 10 hours per day [section 64]
	• The working days shall not exceed 6 days per week
	• There must be one day holiday each week (Sunday). If Sunday service
	is required, there must be a substitution of another day. There must be
	substituted an alternative day-off. [section 61]
	Overtime
	• Shall not exceed more than 16 hours per week or, for continuous work,
	12 hours per week
	• The overtime wage shall be calculated as double the basic wage
	• Permission of Factories and the General Labor Law Inspection
	Department must be obtained for an approval of a constant overtime
	policy
	Calculation of overtime wages
	• For salary earners: Overtime wage per hour = {(salary x 12 month) /
	52-week x 44 (48) hrs.} x 2
	• For daily wages worker: Overtime wage per hour = {(daily wage x 6 day) / 44 (48) hrs.} x 2
	 Piece-work laborers: Overtime wage per hour = {(daily average wage
	$x 6 day) / 44 (48) hrs. \} x 2$
	Worksite Safety and Health Measures
	• The factory must be kept clean and the workspace must be situated
	away from drains, latrines or other things which create a bad or
	unhealthy smell. [section 13]
	• Wastes must be disposed systematically. [section 14]
	• There must be proper ventilation, light and heat. [section 15+19]
	• There must be no dust or smoke in the hall or factory. [section 16]
	• There must be clean drinking water in proper places for all workers.
	[section 20]

SC Auto (Myanmar) Co., Ltd.

	• Population of workers must not be dense and there must be sufficient
	light. [section 19]
	• The latrines must be in suitable places. [section 21]
	• The generators and other auxiliary units must be kept undercover. [section 23, 24]
	 There must be arrangements made for any emergency cut out of
	electricity service. [section 26]
	 In weaving or spinning machines, any female workers and any
	children must not be allowed to handle. [section 28]
	 Females and young workers are not allowed to lift heavy loads.
	 Floors, stairs and paths must be well-built and hand rails are to be built
	and necessary covers must be placed. [section 34]
	• Explosive and flammable substances should be covered and protected.
	[section 39]
	• In every factory, the arrangement of escape routes and fire alarms must
	be kept. [section 40]
	Welfare
	• There must be washing and cleaning facilities for workers. [section
	44+45]
	• There must be sufficient seats for workers if a chance is given for
	sitting. [section 46]
	• There must be sufficient First Aid Boxes. [section 47]
	• If the workers in a factory exceed 250, doctors or nurses in clinic are to
	be appointed. [section 48]
	• If the workers of a factory exceed 100, recreation centers and canteens
	are to be kept for food. [section 49]For factories with over 50 female workers, there must be a child
	nursery center available for the children under 6 year of age. [section
	50]
Relevance to	1
the Project	The project will manage to align with the law.
The	Social Security Law 2012 and The Social Security Rules, 2014
Description	• The objective is benefit for sickness, maternity, death, employment
I IIII	injury, invalidity benefit, superannuation benefit by giving medical
	treatment, providing cast benefit or granting a might to residency.
	(Section 3)
	• All establishments shall contribute to the social security fund from
	the salary of insured workers as follows:
	(a) Health and social care fund:2% from employer, 2% from employee
	(b) Injury fund: 1% from employer
	(c) The accepted maximum salary per month to qualify for participation in the social security fund is currently set at 300,000/ kyate
	in the social security fund is currently set at 300,000/- kyats Kinds of security funds are:
	(a) Health and social care fund
	(b) Family assistance fund
	(c) Injury fund
	(d) Invalidity benefit, superannuation benefit, and survivors benefit

 fund (e) Unemployment benefit fund (f) Other social security fund (e.g. housing fund) 	
(f) Other social security fund (e.g. housing fund)	
For medical treatment and cash benefit for sickness;	
• Beneficiaries have the right to take medical treatment at	the
permitted hospital or clinic for a period up to 26 weeks. (Sect	on
22(a))	
• When the insured person beneficiary is retired, 50% payment	of
medical treatments is entitled if social security contributions have been paid for more than 180 months. (Section 29)	ive
• Beneficiaries have the right to enjoy 60% of average wag	es
calculated against the most recent four-month working period, a	
cash benefit, during a period of illness lasting up to maximum weeks. (Section 23)	
For maternity benefits (Section 25, 26 and 27)	
(a) Benefits are allowed to be taken if the prior working period of	an
employee has been a minimum of one year and if there have be	
paid social security contributions by the worker for a minimum	
months.	-
(b) Maternity leave may total sis weeks before confinement and ei	ght
weeks after confinement, up to 14 weeks in total	-
(c) An additional four weeks are allowed for maternity leave if tw	ins
have been delivered.	
(d) Up to a maximum of six weeks total leave is allowed to be taken	in
cases of miscarriage.	
(e) Full wages may be taken for prenatal examination at the rate of	one
day per time and up to a maximum of seven times.	
(f) 70% of average wages of the previous year can be taken	as
maternity leave compensation before the birth.	
(g) An additional 50% of wages which can be taken once the child	
born (additional 75% for twins, 100% for triplets). Hence, 120%	
average wages will be administered for the eight weeks of matern	ity
leave which may be taken after birth.	ati1
(h) Has the right to take leave for medical treatment for a child up up one year after birth.	1111
(i) A father is entitled to take up to 15 days unpaid leave for infant c	are
upon confinement of his wife.	uυ
For funeral expenses	
• If a social security insured person passes away, his or	ner
beneficiary is entitled to receive five times their average mont	
wage. This is determine as the average wage of the last f	
working months of the decreased person.	
• The obligations of employers are:	
(a) To inform immediately to the Social Security Office when	an
injures has happened to an employee. (Section 54(a))	
(b) To register their business in the Social Security Office within	30
days from the day of first business operations (Rules)	
(c) To register every newly appointed employee with the Soc	ial
Security Office. (Rules)	

	• The employer who registered in accord with the Social Security Law has the right to be exempted from the Workmen's Compensation Act.		
Relevance to the Project	The project will manage to align with the Law.		
	The Workmen's Compensation Act, 1923		
Description	 This Law is for factories which have failed to register with the Social Security Office and to subscribe to the 2012 Social Security Law and Rules. Required to employees who become injured or who die in any accidents arising during and in consequence of their employment. Such compensation also must be made for disease which arise as a direct consequence of employment, such as carpal tunnel syndrome. (Section 3) 		
Relevance to the Project	The project will manage to align with the Law.		
	The Leave and Holiday Act, 1951		
Description	 To allow worker for leave and holiday allowances, religious or social activities with earn allowance, and benefits for Health allowances. Concerned workers: Daily wage workers/temporary workers/ permanent workers. Casual Leave (6) days (Section 5) (a) Casual leave of 6 days with wages is to be provided (b) Casual leave can be taken a maximum of 3 days at a time except in special cases. (c) Casual leave cannot be joined with any other leave (d) Leave will be cancelled if it has not been used with a year. Earned Leave (10) days (Section 4) (a) For continuous service of 12 months and above 10 days of 'earned leave' shall be entitled. (b) If the service day is not 24 days, 1 day deduction from earned leave is made, (c) Can be accumulated for up to 3 years. Medical Leave (30) days [section 6] (a) Workers are entitled to 30 days of medical leave with full pay if 6 months service has not been completed (b) If 6 months service has not been completed, 'leave without pay' can be granted for medical needs (c) If not taken within a year, medical leave is void or cancelled. Maternity Leave [section 7-A] (a) 6 weeks maternity leave before confinement and at least (8) weeks after confinement (b) Entitled jointly with medical leave. 		
	 Public Holidays (21) days [section 3] (a) Workers can enjoy time off with full pay (b) If work is given on a public holiday, twice the rate of regular 		

	wages is required.
Relevance to the Project	The project will manage to align with the law.
	The Payment of Wages Law, 2016
Description	 The employer shall pay the wage when the work is completed or the time of agreed period for any daily, hourly, weekly, or other part time job or for work charge. (section 4 (a)) The agreed period shall not be more than one month. (section 4 (b)) Permanent job shall be paid monthly. (section 4 (c)) Resignation on own volition, dismiss or decrease of the employee shall be paid according to the provisions of section 4.
Relevance to the Project	The project will manage to align with the law.
The Mi	nimum Wages Law, 2013 and The Minimum Wages Rules, 2013
Description	As to the preamble of this law, the objectives are:
	 To fulfill the basic needs of the workers and their families who are working in commercial establishments, production and servicing establishments, agriculture and livestock. And to develop the work performance and competitiveness of workers. The minimum Wages Law is passed by parliament in late 2013 and amounts were specified/ finalized by a national tripartite committee in mid-2015. Implementation of the new wage rates was required to start on 1 September 2015. Duties of the Employer 3,600 Kyats per 8-hour working day (450 Kyat/hour) shall be the minimum wage paid to skilled employees of companies with more than 15 employees in all industries, throughout all of Myanmar. 50% of the minimum – 1,800 Kyats per 8-hour working day (225 Kyats/hour) – may be paid to completely unskilled newly hired workers engaged in a training/induction program up to a maximum of 3 months. 75% of the minimum – 2,700 Kyats per 8-hour working day (338 Kyats/hour) – may be paid to newly hired employees during their 2nd 3 months of employment, regarded as a 'probationary period'.
Relevance to the Project	The project will manage to align with the law.
	r Organization Law, 2011 and The Labor Organization Rules, 2012
Description	 As to the preamble of this law, the objectives are: To protect the rights of the workers in accordance with section 24 of the Constitution To promote good relations between the employer and the worker. To enable to workers to form and carry out the labor organizations systematically and independently. Rights and Responsibilities of the Labor Organization
	 The labor organizations shall have the right to carry out freely in drawing up their constitution and rules, in electing their

	representatives, in organizing their administration and activities or in		
	formulating their programs.		
	• The labor organizations have the right to negotiate and settle with the		
	employer if the workers are unable to obtain and enjoy the rights of		
	the workers contained in the labor laws and to submit demands to the		
	employer and claim in accord with the relevant law if the agreement cannot be reached.		
	• The labor organization has the right to demand the relevant employer to re-appoint a worker if such worker is dismissed by the employer		
	and if there is cause to believe that the reasons of such dismissal were		
	based on labor organization membership or activities, or were not in		
	conformity with the labor laws.		
	• The labor organizations have the right to send representatives to the		
	Conciliation Body in settling a dispute between the employer and the		
	worker.		
	• In discussions with the Government between the employer and the		
	complaining workers, the representatives of the labor organization		
	also have the right to participate and discuss.		
	• Have the right to participate in solving the collective bargaining of the workers		
	• Shall carry out peacefully the holding of meetings, strikes and the		
	carrying out any other collective activities.		
	• Shall assist in making agreements between the employer and the		
	workers. [section 17 to 23]		
	Duties of the Employer		
	The employer shall:		
	recognize the labor organizationsallow the member of executive committee assigned by the labor		
	organization to perform their duty not exceeding two days per month		
	 shall assist as much as possible if the labor organizations requests 		
	help which is in the interest of the factory's workers. [section 29 to		
	31]		
	Prohibitions		
	No employer shall:		
	No employer shall:lock-out any service without the permission of relevant conciliation		
	No employer shall:lock-out any service without the permission of relevant conciliation body		
	 No employer shall: lock-out any service without the permission of relevant conciliation body lock-out any work during the settlement of dispute period 		
	No employer shall:lock-out any service without the permission of relevant conciliation body		
	 No employer shall: lock-out any service without the permission of relevant conciliation body lock-out any work during the settlement of dispute period carry out an illegal lock-out, dismiss a worker for his membership in a labour organization or for the exercise of organizational activities or participating in a strike. [section 43+44] 		
	 No employer shall: lock-out any service without the permission of relevant conciliation body lock-out any work during the settlement of dispute period carry out an illegal lock-out, dismiss a worker for his membership in a labour organization or for the exercise of organizational activities or participating in a strike. [section 43+44] No worker shall: 		
	 No employer shall: lock-out any service without the permission of relevant conciliation body lock-out any work during the settlement of dispute period carry out an illegal lock-out, dismiss a worker for his membership in a labour organization or for the exercise of organizational activities or participating in a strike. [section 43+44] No worker shall: (a) Go on strike without informing in advance the relevant employer 		
	 No employer shall: lock-out any service without the permission of relevant conciliation body lock-out any work during the settlement of dispute period carry out an illegal lock-out, dismiss a worker for his membership in a labour organization or for the exercise of organizational activities or participating in a strike. [section 43+44] No worker shall: (a) Go on strike without informing in advance the relevant employer or the relevant conciliation body 		
	 No employer shall: lock-out any service without the permission of relevant conciliation body lock-out any work during the settlement of dispute period carry out an illegal lock-out, dismiss a worker for his membership in a labour organization or for the exercise of organizational activities or participating in a strike. [section 43+44] No worker shall: (a) Go on strike without informing in advance the relevant employer or the relevant conciliation body (b) Go on strike during the settlement of dispute period 		
Relevance to	 No employer shall: lock-out any service without the permission of relevant conciliation body lock-out any work during the settlement of dispute period carry out an illegal lock-out, dismiss a worker for his membership in a labour organization or for the exercise of organizational activities or participating in a strike. [section 43+44] No worker shall: (a) Go on strike without informing in advance the relevant employer or the relevant conciliation body 		

	The Settlement of Labor Disputes Law, 2012
Description	 The Settlement of Labor Disputes Law, 2012 As to the preamble of this law, the objectives are: To safeguard the rights of workers To promote a good relationship between employer and workers and creating a peaceful workplace. To obtain the rights fairly, rightfully and quickly by settling disputes between employer and worker justly. Forming Workplace Coordinating Committee The employer shall, in an establishment which has 30 employees and above and if there is a labor organization. Allow 2 nominated workers for each labor organization. Allow 2 nominated workers. If there is no labor organization, Organize election of 2 representatives of the workers. Appoint 2 representatives of the employer The term of such committees is one year. Settlement of Dispute A party, employer or worker, may complain to the Conciliation Body, may apply to the court. [section 23] The Conciliation Body shall refer the collective dispute which does not reach settlement to the relevant Arbitration Body. [section 25] No party shall be barred to proceed with the right to institute criminal or civil proceedings in respect of such dispute during conciliation or arbitration or
Relevance to	 arbitration. [section 52] As a strike suspends the employment agreement temporarily, the employer shall not be liable to pay salary or allowance during such period to the workers who go on strike. [section 54]
the Project	The project will manage to align with the law.
	The Development of Employment and Skill Law,2013
Description	 The employer shall carry out the training program in accord with the work requirement in line with the policy of the skill development team to develop the skill relating to the employment for the workers who are proposed to appoint and working at present. [section 14] The employer shall apply through the relevant committees to the skill development team to acquire the registration certificate in accord with the stipulations. [section 16 (a)]
Relevance to the Project	The project will manage to align with the law.

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

2.4 Environmental Management Commitments

The following Environmental Management Commitments are relevant to the operation of the "*Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services*". To meet environmental, social and other requirements, SC Auto (Myanmar) Co., Ltd. shall

- Ensure that other obligations are incorporated in the designs, procedures and project controls.
- Communicate other requirements to personnel and contractors accountable for compliance.
- Ensure all relevant legal and other requirements and associated documentation (e.g., licenses, permits, approval applications) are readily available on site to SC Auto (Myanmar) Co., Ltd. personnel, contractors, subcontractors and consultants.
- Conduct a compliance audit at least annually and ensure there is a process in place to monitor on-going compliance with all legal and other requirements.
- Ensure that all mitigation measures for the project as soon as practical.
- Ensure that all management plans for the project as soon as appropriately.
- Ensure that budget allocation for all mitigation measures & management plans.

2.5 International Conventions, Treaties and Agreements

Myanmar has signed several international treaties related to the environment. The Error! Reference source not found. presents a list of the conventions signed by Myanmar.

No.	International Convention, Treaties and Agreements	Remarks
1.	Relevant ILO Conventions in force in Myanmar	Ratified:
	C1 Hours of Work (Industry)	1921
	C14 Weekly Rest (Industry)	1923
	C17 Workmen's Compensation (Accidents)	1956
	C19 Equality of Treatment (Accident Compensation)	1927
	C26 Minimum Wage Fixing Machinery	1954
	C29 Forced Labour Convention	1955
	C42 Workmen's Compensation (Occupational Diseases) Revised	1957
	1934	1954
	C52 Holidays with Pay	1955
	C87 Freedom of Association and Protection of the Right to Organize	
2.	Plant Protection Agreement for the Southeast Asia and Pacific	1959
	Region, Rome	(Ratification)
3.	Treaty on the Prohibition of the Emplacement of Nuclear Weapons	1971
	and other Weapons of Mass Destruction on the Sea Bed and Ocean	(Signatory)
	Floor and in the Subsoil there of, London, Moscow, Washington,	
	1971	
4.	MARPOL: International Convention for the prevention of pollution	1988

Table 2.3 International Treaties and Conventions

SC Auto (Myanmar) Co., Ltd.

No.	International Convention, Treaties and Agreements	Remarks
	from ships. November 2, 1973	(Accession)
5.	MARPOL: Protocol of 1978	1988
		(Accession)
6.	Convention for the prevention of marine pollution from Land-Based	-
	Sources June 4, 1974	
7.	ICAO: ANNEX 16 to the Convention on International Civil Aviation	Accession
	Environmental Protection Vol. I and II, Aircraft Noise and Aircraft	
	Engine Emission	
8.	Agreement on the Networks of Aquaculture Centers in Asia and the	1990
	Pacific, Bangkok 1988	(Accession)
9.	Convention on the Rights of the Child	1991
		(Accession)
10.	Convention on the Prohibition of the Development, Production,	1993
	Stockpiling and Use of Chemical Weapons and their Destruction,	(Signatory)
	Paris, 1993	
11.	Vienna Convention for the Protection of the Ozone Layer, Vienna	24-11-1993
	1985	(Ratification)
12.	Montreal Protocol on Substances that Deplete the Ozone Layer,	24-11-1993
	Montreal 1987	(Ratification)
13.	London Amendment to the Montreal Protocol on Substances that	24-11-1993
	Deplete the Ozone Layer, London, 1990	(Ratification)
14.	Agreement to Promote Compliance with International Conservation	1994
	and Management Measures by Fishing Vessels on the High Seas,	(Acceptance)
	Rome, 1973	
15.	The Convention for the Protection of the World Culture and Natural	29-4-1994
	Heritage, Paris, 1972	(Acceptance)
16.	United Nations Framework Convention on Climate Change, New	25-11-1994
	York, 1992 (UNFCCC)	(Ratification)
17.	Convention on Biological Diversity, Rio de Janeiro, 1992	25-11-1994
		(Ratification)
18.	International Tropical Timber Agreement (ITTA), Geneva 1994	1996
		(Ratification)
19.	Agreement Relating to the Implementation of Part XI of the United	21-5-1996
	Nations Convention on the Law of Sea of 10 December 1982, New	(Accession)
	York, 1994	
20.	Convention on International Trade in Endangered Species of Wild	1997
	Fauna and Flora (CITES), Washington DC 1973; and as amended in	(Accession)
	Bonn, Germany 1979	
21.	United Nations Convention to Combat Desertification in Those	1997
	Countries Experiencing Serious Drought, Paris 1994	(Accession)
22.	Convention on Elimination of All Forms of Discrimination against	1997
	Women (CEDAW)	(Accession)

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No.	International Convention, Treaties and Agreements	Remarks
23.	Cartagena Protocol on Biosafety, Cartagena, 2000	2001
		(Signatory)
24.	ICAO: ANNEX 16 to the Convention on International Civil Aviation	Accession
	Environmental Protection Vol. I and II, Aircraft Noise and Aircraft	
	Engine Emission	
25.	Kyoto Protocol to the Convention on Climate Change, Kyoto 1997	2003
		(Accession)
26.	Declaration on ASEAN Heritage Parks	2003
		(Signatory)
27.	International Treaty on Plant Genetic Resources for Food and	2004
	Agriculture, 2001	(Ratification)
28.	Stockholm Convention on Persistent Organic Pollutants (POPs)	2004
		(Accession)
29.	Ramsar Convention on Wetlands of International Importance	2005
		(Accession)
30.	Establishment of ASEAN Regional Centre for Biodiversity	2005
		(Signatory)
31.	Universal Declaration of Human Rights (UNDHR)	Signatory
32.	Convention for the protection of marine environment of the North-	-
	East Atlantic September 9, 1992	
33.	Convention on the protection of the Marine Environment of the Baltic	-
	Sea Area April 9, 1992	
34.	United Nations convention of the law of the sea December 10, 1982	-
35.	The Convention on the prevention of marine pollution by Dumping	-
	Waste and Other matter December 29, 1972	
36.	Protocol to the convention on the prevention of marine pollution by	-
	Dumping of Waste and Other matter 1996	

2.6 Standards and Guidelines for the Surrounding Environment of the Project

According to Article 10 of the Environmental Conservation Law (2012), (now MONREC set up some environmental quality standards, with the approval of the Union Government and the Committee.

As of 29 December 2015, emission guideline and target values of ambient air quality, air emission, wastewater, and noise levels were set in NEQEG, while other standards have not been set yet by MONREC.

In this Project, the Project Proponent, SC Auto (Myanmar) Company Limited basically apply the NEQEG and in case of no quantitative target values in NEQEG, the quantitative target values of other country and international organizations will be referred. Each quantitative target value to be applied is described below sections.

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2.6.1 Air Quality

Since there is no ambient air quality standard in Myanmar and only air emission guideline values in National Environmental Quality Emission Guidelines (NEQEG) (2015) referred from WHO's air quality guidelines, these guideline values shown in below table will be set as target values for both ambient and emission air quality for operation and closing phases.

No.	Parameter	Averaging Period	Guideline Value (µg/m ³)
1.	Nitrogen dioxide	1-year	40
	(NO ₂)	1-hour	200
2.	Ozone (O ₃)	8-hour daily	100
		maximum	
3.	PM ₁₀	1-year	20
		24-hour	50
4.	PM _{2.5}	1-year	10
		24-hour	25
5.	Sulfur dioxide	24-hour	20
	(SO ₂)	10-minutes	500

Table 2.4 Air Emission Guidelines

Source: National Environmental Quality (Emission) Guidelines (NEQEG) (29 Dec 2015)

Since there are any combustion facilities designed to deliver electrical or mechanical power, steam, heat or any combination of these, it is necessary to set the target value for air emission level from combustion facilities in this project.

Table 2.5 Small Combustion	Facilities En	mission Guidelin	es
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No.	Combustion Technology /Fuel	Particulate Matter PM ₁₀ ^a	Sulfur Dioxide	Nitrogen Oxides
1.	Gas	-	-	$200^{b} \text{ mg/Nm}^{3c}$
				$400^{d} \text{ mg/Nm}^{3}$
				$1,600^{\rm e} {\rm mg/Nm}^{\rm 3}$
2.	Liquid	100	3	$1,600-1,850^{\rm f}{\rm mg/Nm}^3$
3.	Natural gas (3-<15 MW ^g)	-	-	$90^{\rm h} {\rm mg/Nm}^3$
				$210^{i} \text{ mg/Nm}^{3}$
4.	Natural gas (15-<50 MW)	-	-	50 mg/Nm^3
5.	Fuels other than natural	-	0.5 % sulfur	$200^{\rm h} {\rm mg/Nm^3}$
	gas (3-<15 MW)			310^{j} mg/Nm ³
6.	Fuels other than natural	-	0.5 % sulfur	150 mg/Nm^3
	gas (15-<50 MW)			
7.	Gas	-	-	320 mg/Nm^3
8.	Liquid	150 mg/Nm^3	$2,000 \text{ mg/Nm}^3$	460 mg/Nm^3
9.	Solid ^j	150 mg/Nm^3	$2,000 \text{ mg/Nm}^3$	650 mg/Nm^3

^aParticulate matter 10 micrometers or less in diameter, ^bSpark ignition, ^c Milligrams per normal cubic meter at specified temperature and pressure, ^d dual fuel, ^e compression ignition, ^f higher value applies if bore size > 400 m,

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^g Megawatt, ^h Electric generation, ⁱ mechanical drive, ^j Includes biomass Source: National Environmental Quality (Emission) Guidelines (NEQEG) (29 Dec 2015)

2.6.3 Water Quality

According to International Water Quality Guidelines Study report published by United Nation Environment Program, there are various water quality standards and they are:

- a) Water Quality Standards
 - Water Quality Standards for Conservation of the living Environment (Rivers)
 - Water Quality Standards for Conservation of the living Environment (Lakes)
 - Water Quality Standards for Protecting Human Health (Rivers and Lakes)
- b) Ground Water Quality Standards
- c) Coastal Water Quality Standards
 - Coastal Water Quality Standards for Conservation of the Living Environment
 - Coastal Water Quality Standards for the Protection of Human Health
- d) Drinking Water Quality Standards

Although the water quality standards are widespread, for this IEE, Study GMES IEE Team selected WHO Drinking Water Standards - 2011 and also selected National Environmental Quality (Emission) Guidelines (2015) as effluent water standards for general effluent runoff.

No.	Parameter	Guideline Values	Unit
1.	Aluminum	0.2	mg/l
2.	Arsenic	10	µg/l
3.	Chloride	250	mg/l
4.	Copper	2	mg/l
5.	Cyanide	0.07	mg/l
6.	Manganese	0.4	mg/l
7.	рН	6.5~8.5	-
8.	Sulfate	250	mg/l
9.	Total Alkalinity	-	mg/l
10.	Total Dissolved Solids	600	mg/l
11.	Total Hardness	500	mg/l
12.	Total Iron	0.3	mg/l
13.	Turbidity	5	NTU

Table 2.6 WHO Drinking Water Standards (2011)

The guideline values for effluent water quality are referred to general application standards of NEQEG (2015) and tabulated in Error! Reference source not ound..

Table 2.7 Effluent Water Standards for Operation Phase

No.	Parameter	Guideline Values	Unit
1.	5-day Biological oxygen demand	50	mg/l
	(BOD)		

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No.	Parameter	Guideline Values	Unit
2.	Ammonia	10	mg/l
3.	Arsenic	0.1	mg/l
4.	Cadmium	0.1	mg/l
5.	Chemical oxygen demand (COD)	125	mg/l
6.	Chlorine (total residual)	0.2	mg/l
7.	Chromium (Hexavalent)	0.1	mg/l
8.	Chromium (total)	0.5	mg/l
9.	Copper (Cu)	0.5	mg/l
10.	Cyanide (free)	0.1	mg/l
11.	Cyanide (total)	1	mg/l
12.	Fluoride	20	mg/l
13.	Heavy metals (total)	10	mg/l
14.	Iron	3.5	mg/l
15.	Lead	0.1	mg/l
16.	Mercury	0.01	mg/l
17.	Nickel	0.5	mg/l
18.	Oil and grease	10	mg/l
19.	pH	6-9	S.U. ^a
20.	Phenols	0.5	mg/l
21.	Selenium	0.1	mg/l
22.	Silver	0.5	mg/l
23.	Sulfide	1	mg/l
24.	Temperature increase	<3	°C
25.	Total coliform bacteria	400	100 ml
26.	Total phosphorus	2	mg/l
27.	Total suspended solids	50	mg/l
28.	Zinc	2	mg/l

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^a Standard unit

2.6.3 Noise Levels

According to the NEQEG, the noise levels are set as shown in the following table and noise prevention and mitigation measures should be taken by all projects where predicted or measured noise impacts from a project facility or operation exceed the applicable noise level guideline at the most sensitive point of reception. Noise impacts should not exceed the levels shown below, or result in a maximum increase in background levels of three decibels at the nearest receptor location off-site.

Since the project is located in Yangon Industrial Zone and surrounding receptors are industrial and commercial areas, the target noise level targeted to industrial and commercial receptors will be applied during the operation phase of the project.

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	One Hour L _{Aeq} , dB (A)		
Receptor	Day time 07:00-22:00 (10:00-22:00 for Public holidays)	Night time 22:00-07:00 (22:00-10:00 for Public holidays)	
Resident, Institutional, Educational	55	45	
Industrial Commercial	70	70	

Table 2.8 Ambient Noise Level Standards for Operation Phase

Source: National Environmental Quality (Emission) Guidelines (NEQG) (29 Dec 2015)

Table 2.9 OHS Noise Exposure	Limits for the Work Environment	(Noise Exposures in dBA)
		(I tolbe Enpobales in abil)

Noise (dBA)	Permissible exposure Noise (hours and minutes)
85	16 hrs
87	12 hrs 6 min
90	8 hrs
93	5 hrs 18 min
96	3 hrs 30 min
99	2 hrs 18 min
102	1 hrs 30 min
105	1 hr
108	40 min
111	26 min
114	17 min
115	15 min
118	10 min
121	6.6 min
124	4 min
127	3 min
130	1min

Note: Exposures above or below the 90 dB limit have been "time weighted" to give what OHSA believes are equivalent risks to a 90 dB eight-hour exposure. [Source: Marsh (9)]

2.7 Institutional Framework of Myanmar Government Responsible for Project

2.7.1 Ministry of Natural Resources and Environmental Conservation (MONREC)

Ministry of Natural Resources and Environmental Conservation (**MONREC**) is the focal ministry for environmental management and empowered to undertake a range of regulatory activities under the Environment Conservation Law (ECL). The ECL gives MONREC mandate to implement the EIA-regime in Myanmar through the EIA Procedure.

2.7.2 The Environment Conservation Department (ECD)

The Environment Conservation Department (ECD) under MONREC has an executive role in environmental licensing, pollution control and monitoring of

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environmental impacts and a coordination and collaboration role for the integration of environmental issues into sectorial planning. ECD is creating sub-national offices, at the regional level, with further offices planned at the district and township levels.

National Environmental Conservation and Climate Change Committee (NECCCC) has a coordinating role and a role in the approval of the EIAs.

2.7.3 Myanmar Investment Commission (MIC)

Myanmar Investment Commission (MIC) is the main administrative body for the granting of investment permits under the Myanmar Investment Law. Directorate of Investment and Company Administration (DICA) acts a secretariat to the MIC.

2.7.4 Department of Public Health

Department of Public Health within the Ministry of Health and Sports is responsible for occupational and health protection in Myanmar.

2.7.5 Ministry of Labor, Immigration and Population

Ministry of Labor, Immigration and population also is responsible for labor and welfare administration. The Department of Factories and general labor laws inspection monitors and enforces safety and health standards in factories and disseminates industrial safety information.

2.7.6 Directorate of Industrial Supervision and Inspection (DISI)

Directorate of Industrial Supervision and Inspection (DISI) is responsible to inspect and register for boiler according to the boiler law (2012) and electrical system in factory according to the electrical power law (2014).

2.7.8 Departmental Cooperation Team

The Departmental Cooperation Team is organized for the field inspection of the operation of business in accordance with section 14 of the Foreign Investment Law. The Departmental Cooperation Team is responsible for coordination between business and government department and to guide to the business for the government department's requirements

The Departmental Cooperation Team is organized by representatives from the governmental departments:

- (1) Directorate of Investment and Company Administration
- (2) Department of Customs
- (3) Department of Commerce
- (4) Directorate of Labor
- (5) Department of Immigration and National Registration
- (6) Ministry of Hotel and Tourism
- (7) Internal Revenue Department
- (8) Central Bank of Myanmar

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- (9) Ministry of Electricity and Energy
- (10) Directorate of Industrial Supervision and Inspection
- (11) Ministry of Natural Resources and Environmental Conservation
- (12) Ministry of Agriculture, Livestock and Irrigation.

2.8 Key Commitment of Proponent for Environmental Management

The general commitments by SC Auto (Myanmar) Company Limited are as follows:

- To comply with all Myanmar laws, rules and regulations and Environmental Conservation Law (2012)
- To ensure that legal requirements are incorporated in designs for construction phase and in production procedures for operational phase
- To ensure that all contractors and sub-contractors follow strictly relevant legal and other requirements during construction phase
- To ensure all relevant legally required documents are readily available on site by the project proponent's personnel, contractors and sub-contractors such as licenses, permits, approval applications
- To conduct environmental compliance audit at least bi-annually during operational phase
- ✤ To ensure implementation of company's CSR program
- ✤ To ensure compliance with company's OSH policy
- ✤ To submit the environmental monitoring report biannually.

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3.0 DESCRIPTION OF THE PROJECT

5.1 Project Particulars			
Project name	The Manufacturing, Assembling and Sales of Vehicles and Related		
	Business Activities Project		
Project location	No 188/189,10 th Road, Yangon Industrial Zone, Mingalardon		
	Township, Yangon Region		
Project proponent	SC AUTO (MYANMAR) COMPANY LIMITED		
Office address	No 188/189,10 th Street, Yangon Industrial Zone, Mingalardone		
	Township, Yangon Region		
Contact person	Ms. Lee Swee Hoon		
Designation	Promoter		
Telephone	01-9670928		
Email	Rachel.lee@scauto.com.sg		
Proponent name	Wai Phyo Aung		
Designation	Corporate Affairs Manager		
Telephone	09-254088442		
Email	waiphyo.aung@scauto.com.sg		

3.1 **Project Particulars**

3.2 Project Location and Area

The proposed project is located in No 188/189,10th Road, Yangon Industrial Zone, Mingalardon Township, Yangon Region.



Figure 3.1 Google Earth Map of the Project Site

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3.3 Site Boundaries and Surrounding Environment and Site Assess Road

At the vicinity of SC auto there are still plots which have no buildings. SC Auto factory is located in Mingalardon Industrial City. The detail access road is as shown in following figure.



Figure 3.2 Assess Road around the Project Area

3.4 **Project Investment**

Amount of foreign capital is to be brought in US \$ 10,901.65 Thousands.

3.5 Raw Materials

Raw materials are imported from Singapore via sea freight. It is transported from port to factory by car and stored in factory's warehouse. Raw materials required for assembly are as follows. According to the ECD comment, the raw material imported amount is not have monthly because the factory will order for the raw material is annulaly imported.

No.	Particular	Unit	Quantity
1	CHASSIS	UT	30.00
2	CHASSIS - H	UT	70.00
3	STEEL MATERIAL	TON	560.00
4	E.G PERFORATED SHEET	PC	300.00

 Table 3.1 Annual Raw Materials Requirement (to be Imported)

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No.	Particular	Unit	Quantity
5	ALUMINIUM SHEET	TON	98.00
6	ALUMINIUM CHEQUERED PLATE	TON	27.00
7	COPPER PIPE	PC	2,000.00
8	COPPER ELBOW	KG	5,000.00
9	COPPER BRAZING ROD	KG	1,000.00
10	PVC INSULATION TAPE/ MASKING TAPE	BOX	2,000.00
11	INSULATION SPONGE	LOT	200.00
12	BUS AIRCON	ST	100.00
13	BUS AIRCON PIPING KIT	ST	300.00
14	REFRIGERANTS 134 A	CY	100.00
15	AIRCON HOSE	ROLL	100.00
16	ALUMINIUM PROFILE	TON	50.00
17	RUBBER PROFILE, HOSE & STOPPER	ROLL	500.00
18	DOOR PUMP	ST	210.00
19	DRIVER SEAT	ST	100.00
20	DRIVER SEAT MOUNTING BRACKET	PC	100.00
21	BUZZER	BOX	400.00
22	WIPER SET	ST	220.00
23	BUS INTERIOR ACCESSORIES	BOX	200.00
24	PVC WIRE COVER	ROLL	800.00
25	TERMINAL SOCKET/WIRE CONNECTOR	BOX	800.00
26	SWITCH	BOX	100.00
27	SENSOR	BOX	100.00
28	EMERGENCY DOOR SENSOR SWITCH	BOX	100.00
29	CAR PARKING/REVERSING SENSOR SYSTEM	ST	120.00
30	CABLE TIE	BOX	300.00
31	RELAY	BOX	100.00
32	FUSE	BOX	100.00
33	DIODE	BOX	100.00
34	HEAD LAMP	ST	1,300.00
35	TAIL LAMP	ST	2,600.00
36	LAMP	PC	3,500.00
37	BULB	BOX	100.00
38	TIMER	BOX	100.00
39	MONITOR	ST	300.00
40	CONVERTOR	PC	110.00
41	INVERTOR	PC	110.00
42	DVD PLAYER	PC	120.00
43	CAMERA AND ACCESSORIES	ST	120.00
44	BUS AUDIO SYSTEM	ST	100.00
45	HEAD PHONE	ST	5,100.00
46	HEAD END RECEIVER	ST	100.00
47	MICRO WAVE OVEN	PC	100.00
48	THERMOPOT	PC	100.00
49	INSULATION FOAM	PC	800.00
50	HNDLE AND LOCK	BOX	300.00
51	RUBBER MAT	ROLL	50.00

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No.	Particular	Unit	Quantity
52	FRONT WINDSCREEN GLASS	PC	240.00
53	BUS SIDE BODY GLASS	PC	3,000.00
54	DRIVER WINDOW WITH GLASS	PC	240.00
55	BEARING AND PILLOW BLOCK	BOX	650.00
56	HOSE CLIP	BOX	120.00
57	GAS SPRING	PC	4,000.00
58	BONNET CABLE 011019	ST	120.00
59	HINGES	BOX	500.00
60	ROCK WOOL INSULATION	PA	1,000.00
61	VENTILATION FAN	ST	220.00
62	INTERIOR LED LIGHTING SYSTEM	ROLL	700.00
63	FIRE EXTINGUISHER	PC	200.00
64	AIR LOUVER	PC	1,000.00
65	FORMICA	PC	1,000.00
66	REAR VIEW MIRROR SYSTEM	ST	500.00
67	STAINLESS STEEL BASIN	PC	100.00
68	INTERIOR LUGGAGE RACK SYSTEM	ST	120.00
69	SANDPAPER	BOX	730.00
70	COTTON CLOTH	PA	112.00
71	SEALANT AND ACTIVATOR	BOX	5,500.00
72	PASSENGER SEAT	BOX	5,100.00
73	GUIDE SEAT	BOX	100.00
74	ADHESIVE GLUE	TIN	1,000.00
75	INTERIOR PVC MATERIAL	ROLL	700.00
76	FLOOR RUBBER	ROLL	400.00
77	PLYWOOD	PC	3,000.00
78	SCREW, BOLT, NUT AND WASHER	BOX	3,000.00
79	REVIT (1000pcs/Box)	BOX	2,000.00
80	STICKER	BOX	200.00
81	CURTAIN ACCSSORIES	ST	100.00
82	PLASTIC COVER	BOX	100.00
83	WHEEL DECORATION COVER	BOX	240.00
84	LASER CUT STEEL PLATE/BUSHES	TON	150.00
85	SUN CURTAIN	ST	200.00
86	PAPER ROLL	ROLL	500.00
87	REFRIGERATIOR	SET	100.00
88	WELDING ROD FOR FLOOR	ROLL	220.00
89	ENGINES & ACCESSORIES	ST	100.00
90	TRANSMISSION SYSTEM & ACCESSORIES	ST	100.00
91	REAR AXLE SYSTEM & ACCESSORIES	ST	100.00
92	COOLING PAD & ACCESSORIES	ST	100.00
93	FRONT AXLE SYSTEM & ACCESSORIES	ST	100.00
94	MINI-KITCHEN	ST	100.00
95	BUS TOILET SYSTEM & ACCESSORIES	ST	100.00
96	ALUMINIUM MATERIAL (VARIOUS TYPE & SIZES)	TON	30.00
97	ENTERTAINMENT SYSTEM	ST	150.00
98	FERRITIC STEEL HOLLOW SECTION	TON	320.00

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No.	Particular	Unit	Quantity
99	ELECTRICAL DISTRIBUTION BOARD & ACCESSORIES	ST	100.00
100	SHEET MATERIALS (VARIOUS TYPE & SIZE)	TON	112.50
100	STEEL BLOCKS (VARIOUS TYPES & SIZES)	TON	50.00
101	DVR RECORDER	ST	150.00
102	INVERTERS	BOX	100.00
103	INSTRUMENTAL CLUSTER & SWITCH PACK &	ST	100.00
	ACCESSORIES		
105	BRAKE SYSTEM & ACCESSORIES	ST	100.00
106	TRANSMISSION OIL	DRUMS	30.00
107	HYDRAULIC OIL	DRUMS	30.00
108	POWER STEERING OIL (ATF III FLUID)	PACK	500.00
109	FIBRE GLASS MATERIAL - GELCOAT	DRUMS	160.00
110	FUEL TANK & ACCESSORIES	ST	200.00
111	SERVOCOM	BOX	100.00
112	CARDAN SHAFT	PC	100.00
113	ENGINE OIL	DRUMS	50.00
114	HYDRAULIC PUMP	BOX	210.00
115	PANELS (VARIOUS TYPES & SIZES)	TON	100.00
116	SUSPENSION SYSTEM & ACCESSORIES	ST	100.00
117	COOLING WATER SYSTEM & ACCESSORIES	ST	100.00
118	COOLER BOX	ST	100.00
119	FIBRE GLASS MATERIAL - RESIN	DRUMS	600.00
120	WIRE MESH	RO	4.50
121	UNIONS (VARIOUS TYPES & SIZES)	BOX	100.00
122	FAN DRIVE SYSTEM & ACCESSORIES	ST	100.00
123	AIR COOLING SYSTEM & ACCESSORIES	ST	100.00
124	MULTIC 2	BOX	120.00
125	FRONT DISTRIBUTION BOARD ACCESSORIES &	ST	100.00
	ASSEMBLY REAR DISTRIBUTION BOARD ACCESSORIES &		
126	ASSEMBLY	ST	100.00
127	STEEL PIPES (VARIOUS SHAPES & SIZES)	TON	100.00
128	FRONT STABILIZER BAR	PC	100.00
129	HYDRAULIC OIL	DRUMS	200.00
130	CRIMP PINS	BOX	100.00
130	DROP ARM	PC	120.00
131	AIR INTAKE SYSTEM & ACCESSORIES	ST	120.00
132	FRONT STEERING SYSTEM & ACCESSORIES	ST	100.00
135	PCB BOARD	PC	100.00
134	TYRES	PC PC	
			700.00
136	LCD TV	PC ST	300.00
137	LUGGAGE DOOR PUMP	ST	210.00
138	AIR CLEANER	BOX	100.00
139	COOLANT	DRUMS	50.00
140	STEEL FRAMES (VARIOUS TYPES & SIZES)	TON	200.00
141	HOLLOW SECTIONS (VARIOUS TYPE & SIZES)	TON	300.00

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No.	Particular	Unit	Quantity
142	FUEL SYSTEM & ACCESSORIES	ST	100.00
143	BRACKETS (VARIOUS TYPES & SIZES)	TON	100.00
144	INTERMEDIATE SHAFT	BOX	100.00
145	EMERGENCY SYSTEM & ACCESSORIES	ST	120.00
146	AIR DRYER	BOX	100.00
147	FIBRE GLASS MATERIAL - ACETONE	DRUMS	160.00
148	DIESEL EURO 6	DRUMS	100.00
149	FLOOR LIGHT STRIPS & ACCESSORIES	ST	100.00
150	RODS & PIPES (VARIOUS TYPE & SIZES)	TON	50.00
151	BATTERY	PC	220.00
152	AIRCON COMPRESSOR SYSTEM & ACCESSORIES	ST	100.00
153	PULLEY & ACCESSORIES (VARIOUS TYPES & SIZES)	SET	300.00
155	FIBRE PARTS (VARIOUS TYPES & SIZES)	SET	400.00
155	DE-IONISED WATER	DRUMS	50.00
156	HOSES (VARIOUS TYPES & SIZES)	ROLL	1,000.00
157	MOUNTING RUBBER (VARIOUS TYPES & SIZES)	BOX	300.00
158	FUEL HOSE	ROLL	5.00
159	AIR SUPPLY SYSTEM & ACCESSORIES	ST	100.00
160	ADBLUE	DRUMS	50.00
161	MULTIFUNCTION GATEWAY	PC	110.00
162	BEVEL BOX	BOX	100.00
163	HYDRAULIC RESERVOIR	BOX	100.00
164	VALVES (VARIOUS TYPES & SIZES)	BOX	100.00
165	FRONT TO REAR STEERING SYSTEM &	ST	100.00
105	ACCESSORIES	51	100.00
166	FIBRE GLASS MATERIAL - PIGMENT	TIN	55.00
167	ELECTRCIAL CONTROL UNIT	BOX	1,000.00
168	ACCELERATOR PEDAL & ACCESSORIES	ST	100.00
169	TERMINAL SEALS & PLUGS (VARIOUS TYPES & SIZES)	BOX	300.00
170	AIR BELLOW	PC	600.00
171	REAR STEERING SYSTEM & ACCESSORIES	ST	100.00
172	FIBRE GLASS MATERIAL - CHOPPED STRAND MAT ECM	ROLL	800.00
173	AMPLIFIER	BOX	100.00
174	STEERING WHEEL & ACCESSORIES	ST	100.00
175	INTERIOR LUGGAGE CASTING PARTS	BOX	400.00
176	CASTED PARTS (VARIOUS SHAPES & SIZES)	TON	100.00
177	FIBRE GLASS MATERIAL - MOLD RELEASE WAX CHEMLEASE PMR	TINS	200.00
178	FIBRE GLASS MATERIAL - REOLOSIL	BAG	100.00
178	T-JOINTS & BRACKETS (VARIOUS TYPES & SIZES)	BAU	100.00
179	WHEEL RIM & ACCESSORIES	ST	700.00
180	FIBRE GLASS MATERIAL - WOVEN ROVING	CARTON	100.00
181	SWITCH PACK	BOX	100.00
182	CONTACT PIN, TERMINAL & PINS	BOX	300.00
183	SEAT BELT (VARIOUS TYPES)	BOX	100.00
104	SEAT DELT (VANIOUS TTEES)	DUA	100.00

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No.	Particular	Unit	Quantity
185	WIPER WATER TANK	ST	120.00
186	RUBBER HOSES (VARIOUS TYPES & SIZES)	ROLL	500.00
187	CLAMPS (VARIOUS TYPES & SIZES)	BOX	200.00
188	SWIVEL CONNECTORS (VARIOUS TYPES & SIZES)	BOX	100.00
189	CONNECTORS (VARIOUS TYPES & SIZES)	BOX	1,000.00
190	QUICK CONNECTORS (VARIOUS TITLES & SIZES)	BOX	1,000.00
191	ADAPTORS (VARIOUS TYPES & SIZES)	BOX	100.00
191	ELECTRICAL ACCESSORIES ((VARIOUS TYPES)	BOX	300.00
192	BATTERY DISTRIBUTION BOARD	ST	100.00
194	FUEL LEVEL SENSOR	BOX	110.00
195	AIR RESERVOIR	ST	800.00
196	REAR STABILIZER BAR	PC	110.00
197	CONNECTOR HOUSINGS (VARIOUS TYPES & SIZES)	BOX	200.00
197	TIER RINGS (VARIOUS TYPES & SIZES)	BOX	100.00
198	HOSE ASSEMBLY (VARIOUS TYPES & SIZES)	ST	2,000.00
200	DAMPERS	PC	2,000.00
200	EMERGENCY DOOR LOCK	ST	220.00
201	WIRE HARNESS MATERIALS (WIRE)	DRUMS	1,000.00
202	REGULATORS	ST	400.00
203	OIL RESERVOIR	BOX	110.00
204	NYLON TUBING (VARIOUS TYPES & SIZES)	ROLL	1,000.00
205	WIRE HARNESS & ACCESSORIES	ST	5,000.00
200	REDUCERS (VARIOUS TYPES & SIZES)	BOX	100.00
207	OIL TANK	BOX	100.00
200	TEES (VARIOUS TYPES & SIZES)	BOX	100.00
210	WIRE CONNECTORS (VARIOUS TYPES & SIZES)	BOX	500.00
210	WIRE HARNESS MATERIALS (ACCESSORIES))	BOX	500.00
211	AIR FILTER	BOX	110.00
212	FIRST AID KIT	PC	120.00
213	AIR ELEMENT	BOX	120.00
215	REMOTE CONTROL	ST	120.00
215	CAVITY PLUGS (VARIOUS TYPES & SIZES)	BOX	500.00
217	DIGITAL CLOCK	PC	150.00
218	FIBRE GLASS MATERIAL - MEKP	CARTON	320.00
219	STANCHION POLES (VARIOUS TYPES & SIZES)	ST	100.00
220	PAINTING ACCESSORIES AND CONSUMABLES	BOX	200.00
	(PAINT BRUSHES, ROLLERS ETC)		
221	FLEXIBLE TUBINGS (VARIOUS TYPES & SIZES)	ROLL	2,000.00
222	FLANGE (VARIOUS TYPES & SIZES)	BOX	100.00
223	HEAT INSULATION SPONGE	PC	1,000.00
224	PCB ACCESSORIES (MINI PCB)	BOX	100.00
225	HARNESS MACHINE PRINTING INK	BTL	5.00
226	MIXCHLACK (MIXING PAINT) VARIOUS COLOR	TIN	3,500.00
227	COOLING UNIT SYSTEM & ACCESSORIES	ST	100.00
228	STABILIZER LINK	PC	420.00
229	HORN	PC	220.00
230	HANDRAILS (VARIOUS TYPES & SIZES)	PC	1,500.00

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No.	Particular	Unit	Quantity
231	FOAM TAPES	ROLL	1,000.00
232	INTERIOR UPHOLSTERY SPONGE	ROLL	1,000.00
233	RUBBER COMPONENTS (VARIOUS TYPES & SIZES)	BOX	300.00
234	WIPER TANK & ACCESSORIES	BOX	300.00
235	RIBBED HOSES (VARIOUS TYPES & SIZES)	ROLL	500.00
236	ELECTRICAL CONTACTS (VARIOUS TYPES & SIZES)	BOX	200.00
237	HEIGHT CONTROL VALVE	PC	500.00
238	PAINT REDUCER	TIN	5,000.00
239	PAINT HARDENER	TIN	5,500.00
240	LUGGAGE RUBBER	ROLL	440.00
241	TIE ROD ENDS	BOX	600.00
242	DOOR BELTS	PC	300.00
243	VINYL STICKER	BOX	100.00
244	SERVICE SET	PC	3,000.00
245	PAINT CLEAR COAT	TIN	3,500.00
246	FAN BELTS (VARIOUS TYPES & SIZES)	PC	500.00
247	FIBRE GLASS MATERIAL - MIRROR GLAZE	TIN	320.00
248	PAINT PRIMER	TIN	4,000.00
249	DOOR ALARM	PC	200.00
250	PAINT PUTTY	BOX	1,100.00
251	BUSHES (VARIOUS TYPES & SIZES)	PC	3,000.00
	INSULATION MATERIALS & ACCESSORIES	DC	,
252	(SPONGES, FOAM ETC)	PC	1,000.00
253	SOUND INSULATION SPONGE	PC	3,000.00
254	GASKET RUBBER	ROLL	500.00
255	DOOR CHIMES	PC	300.00
256	SWITCH COMBINATION	BOX	650.00
257	BALL JOINT	BOX	100.00
258	T & V VERTEILER	BOX	100.00
259	BUSHING (VARIOUS TYPES & SIZES)	BOX	100.00
260	EMERGENCY HAMMER	PC	1,000.00
261	BEARINGS (VARIOUS TYPES & SIZES)	BOX	200.00
262	PUSH BELLS	PC	1,000.00
263	PUSH BUTTONS	PC	1,000.00
264	COUPLINGS (VARIOUS TYPES & SIZES)	BOX	100.00
265	SOCKETS (VARIOUS TYPES & SIZES)	BOX	100.00
266	DOOR COCK HOUSING	ST	450.00
267	POLYFOAM	PC	2,000.00
268	HANDLES (GRAB HANDLE, DOOR HANDLE ETC)	ST	3,000.00
269	SENSORS	BOX	100.00
270	FITTINGS (VARIOUS TYPES & SIZES)	BOX	100.00
271	HEAT SHRINK TUBE (VARIOUS TYPES & SIZES)	ROLL	200.00
272	DOOR STOP RUBBER	BOX	100.00
273	CABLES (VARIOUS TYPES & SIZES)	DRUMS	300.00
274	WATER TRANSFER PRINTING FILM	CARTON	10.00
275	WATER TRANSFER PRINTING ACTIVATOR	BOX	10.00

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

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No.	Particular	Unit	Quantity
1	Compressed argon(10.4 m3/cyl)	CY	50
2	Oxygen gas O2 7.4 m3/cyl	CYL	90
3	Acetylene Gas 6.6 m3 /cyl	CYL	135
4	Nitrogen gas N2 6.8 M3/cyl	CY	90
5	Carbon dioxide CO2 gas 31 kg/cyl	CY	300
6	Argon mix blue shield	CY	200

Table 3.2 Annual Raw Material Requirement (Local)

Table 3.3 Estimated Annual Requirement of Chemical and Related Substances

No.	Name	Annual Requirement
1	Aircon Refrigerant Gas R134a	1,633 U
2	PU Foam B3	1,360 U
3	Rock Wood Insulation (Rockwood Stone Wool)	1,680 U
	(Mineral Wool)	
4	Fire Extinguisher Dry Chemical Powder (fire class A, B,	1,000 U
	C)/ ABC Dry Chemical Powder	
5	Sealant Activator Primer (Sika Primer-206 G+P)	6,000 U
6	Adhesives (Various Types) World Brand Adhesive No.800	1,800 U
7	Fibre Glass Material – Gelcoat GH/ GS 5200-8	31,000 kg
8	Fibre Glass Material- Resin Solution, flammable/	16,800 kg
	Flameguard 2597 PT-FR-26	
9	Fibre Glass Material- Pigment (J – Series pigment Paste)	5,200 kg
10	Fibre Glass Material-Fibreglass Roving, Chopped Stand,	3,600 kg
	Mat, Milled fiber, Glass Flake, Yarn, Fibreglass Cloth,	
	Surface Tissue, C Veil, Boat Tape, Glass Tape, Biaxial	
	Mat, Triaxial, Vitrocore, Unidirectional Fabric,	
	Quadriaxial Fabric	
11	Fibre Glass Material- Mold Release Wax Chemlease PMR	2,963 L
	(Megular's M08-Mirror Glaze Maximum Mold Release	
	Wax) (23-135A)	
12	Fibre Glass Material-Reolosil	4,000 kg
13	Fibre Glass Material- Woven Roving	2,360 kg
14	Fibre Glass Material-MEKP	3,340 kg
	(Methyl Ethyl Ketone Peroxide Esterox Series)	
15	Harness Machines Printing Ink	3,000 U
	(1071 Fault- Finder Cleaner Group 1)	
16	Mixchlack (Mixing Paint) Various Color	3,300 L
	Permacron Mixing Colour Series 293 (N), (Xi)	
17	Paint Reducer	1,230 L
	(Permahyd Steinschlag Elastic Schwrz/ Black)	
18	Paint Hardener (Rederal Hardner 0909 Red)	1,090 L
19	Paint Clear Coat	2,350 L

SC Auto (Myanmar) Co., Ltd.

	(37480120 A4LT Permafast Trubo 2K Clearct)	
20	Fibre Glass Material-Mirror Glaze	400 U
	(Meguiar's M08-Mirror Glaze Maximum Mold Release	
	Wax (23-135 A))	
21	Paint Primer	1,330 L
	(Permafleet 1:1 Wash Primer Lasierend 3688)	
22	Paint Putty (Raderal IR Premium Spachtel 2035)	5,088 kg
23	Insulation Materials & Accessories (Sponges, Foam ETC)	855 U

Table 3.4 List of Spray Paint using Amount (Annual)

CHASSIS NO; (3001,3004,3006,3007,3008,3009,3010,3011) - 2Axle (8 Units)							
orted ation							
gapore							
gapore							
gapore							
gapore							

	CHASSIS NO; (3002,3003,3016,3020) - 2Axle (4 Units)								
No.	ERP Part No;	COLO R CODE	Particular	Unit	Qty	Qty for one /bus	Qty for 4 buses	Imported Location	
1	PAI0264	Nil	BASED RED (SOLID) R71,BD,AC11071 (30190) PASSION RED-MAIN COLOUR	LT	64.00	16.00	64.00	Singapore	
2	PAI0321	Nil	DARK RED	LT	48.00	12.00	48.00	Singapore	
3	PAI0069	X 0092	SILVER BLACK	LT	8.00	2.00	8.00	Singapore	
4	PAI0064	W8617	TONER WHITE	LT	32.00	8.00	32.00	Singapore	
5	PAI0124	299	SILVER (DARK SILVER)	LT	400	1.00	4.00	Singapore	



Figure 3.3 Photos of Spray Paints Storage System

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

3.6 Equipment (to be imported)

The using equipment for the production process are as shown in the following.

No.	Particular	Unit	Quantity
1	Flaring Tools	PC	3
2	Manifold Gauge	ST	5
3	Refrigerant Recovery Machine	ST	2
4	Vaccum Pump	ST	3
5	Digital Weighing Machine	ST	3
6	Refrigerant Gas Analyzer	ST	2
7	Pipe Bulging Tools	ST	6
8	Pipe Bending & Cutting Tools Set	ST	6
9	Brazing Kit	ST	6
10	Refrigerant Gas Leak Detector	ST	12
11	Torque Wench	PC	20
12	Clutch Removal Tools	PC	6
13	Feeler Gauge	PC	6
14	Belt Tension Gauge	PC	6
15	Measuring Cylinder	PC	6
16	Angle Alignment Gauge	PC	6
17	Multi-Meter	ST	8
18	Ammeter Clamp	ST	6
19	Anemometer (Air Flow Meter)	ST	6
20	Evaporator Coil Fin Comb	ST	6
21	Digital Thermometer	ST	6
22	Air Impact Wrench Set	PC	8
23	Hand Drilling Tools	PC	100
24	Sticker Plotting Machine	PC	1
25	Manual Milling Machine	PC	2
26	Manual Lathe Machine	PC	2
27	Bench Saw Machine	PC	2
28	Angle Crimping Tools	PC	50
29	Engineering Large Printing Machine	PC	3
30	Hand Rivetor	PC	50
31	Drill Chuck	PC	50
32	Silicon/Sealant Applicator Tools	PC	50
33	Saw Machine (Air)	PC	2
34	Aluminim Cutting Tools	PC	10
35	Rivet Applicator Tools	PC	30
36	Overhead Crane 10 Tons	PC	2
37	Overhead Crane 5 Tons	PC	1
38	Welding Machine for Argon	PC	3
39	MIG Welding Machine with Feeder	PC	46
40	MIG Welding Machine without Feeder	PC	20
41	Welding Machine for Stainless Steel	PC	3
42	Metal Cutting Bandsaw Machine	PC	3
43	Aluminim Sheet Cutting Tools	PC	10

Table 3.5 Equipment to be Imported

SC Auto	(Myanmar)	Co., Ltd.
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44Aluminim Profile Cutting MachinePC245Saw Blade for Aluminim Cutting MachinePC1046Saw Blade for Aluminim & WoodPC2047Battery for Drill MachinePC2048Hand Impact Drilling MachinePC1049Insert for Milling MachinePC1050Holder for InsertPC1051Insert ToolsPC2052Hand Sanding ToolsPC2053G ClampPC10054Grooving InsertPC10055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC2068C-ClampPC5069Webbing SlingPC50
46Saw Blade for Aluminim & WoodPC2047Battery for Drill MachinePC2148Hand Impact Drilling MachinePC1649Insert for Milling MachinePC1650Holder for InsertPC1651Insert ToolsPC2152Hand Sanding ToolsPC2153G ClampPC10054Grooving InsertPC10055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC2068C-ClampPC5069Webbing SlingPC50
47Battery for Drill MachinePC48Hand Impact Drilling MachinePC49Insert for Milling MachinePC50Holder for InsertPC51Insert ToolsPC52Hand Sanding ToolsPC53G ClampPC54Grooving InsertPC55Boring InsertPC56Machine TapPC57Digital Clamp MultimeterPC58Digimatic HoltestPC59MicrometerPC60Ring GaugePC61Computers/Laptops/PeripheralST63Receiver Tank for Air CompressorPC64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC68C-ClampPC69Webbing SlingPC
48Hand Impact Drilling MachinePC49Insert for Milling MachinePC50Holder for InsertPC51Insert ToolsPC52Hand Sanding ToolsPC53G ClampPC54Grooving InsertPC55Boring InsertPC56Machine TapPC57Digital Clamp MultimeterPC58Digimatic HoltestPC59MicrometerPC60Ring GaugePC61Computers/Laptops/PeripheralST63Receiver Tank for Air CompressorPC64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC68C-ClampPC69Webbing SlingPC
49Insert for Milling MachinePC1050Holder for InsertPC1051Insert ToolsPC2052Hand Sanding ToolsPC2053G ClampPC10054Grooving InsertPC10055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC3068C-ClampPC5069Webbing SlingPC50
50Holder for InsertPC51Insert ToolsPC2052Hand Sanding ToolsPC2053G ClampPC10054Grooving InsertPC10054Grooving InsertPC10055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC5069Webbing SlingPC50
50Holder for InsertPC51Insert ToolsPC2052Hand Sanding ToolsPC2053G ClampPC10054Grooving InsertPC10054Grooving InsertPC10055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC5069Webbing SlingPC50
51Insert ToolsPC2152Hand Sanding ToolsPC2053G ClampPC10054Grooving InsertPC1055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC2068C-ClampPC5069Webbing SlingPC50
52Hand Sanding ToolsPC2053G ClampPC10054Grooving InsertPC10054Grooving InsertPC10055Boring InsertPC20056Machine TapPC20057Digital Clamp MultimeterPC20058Digimatic HoltestPC20059MicrometerPC20060Ring GaugePC20061Computers/Laptops/PeripheralST60062Air Compressor SetST20063Receiver Tank for Air CompressorPC20064Dryer for Air CompressorPC20065Forklift 3 TonPC20066Tools BoxPC20067F-ClampPC20068C-ClampPC50069Webbing SlingPC500
53G ClampPC10054Grooving InsertPC1055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC2068C-ClampPC5069Webbing SlingPC50
54Grooving InsertPC1055Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC2068C-ClampPC5069Webbing SlingPC50
55Boring InsertPC2056Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC2068C-ClampPC5069Webbing SlingPC50
56Machine TapPC2057Digital Clamp MultimeterPC2058Digimatic HoltestPC2059MicrometerPC2060Ring GaugePC2061Computers/Laptops/PeripheralST6062Air Compressor SetST2063Receiver Tank for Air CompressorPC2064Dryer for Air CompressorPC2065Forklift 3 TonPC2066Tools BoxPC2067F-ClampPC2068C-ClampPC5069Webbing SlingPC50
57Digital Clamp MultimeterPC58Digimatic HoltestPC59MicrometerPC60Ring GaugePC61Computers/Laptops/PeripheralST62Air Compressor SetST63Receiver Tank for Air CompressorPC64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC68C-ClampPC69Webbing SlingPC
58Digimatic HoltestPC259MicrometerPC260Ring GaugePC261Computers/Laptops/PeripheralST6062Air Compressor SetST63Receiver Tank for Air CompressorPC64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC68C-ClampPC69Webbing SlingPC
59MicrometerPC260Ring GaugePC261Computers/Laptops/PeripheralST6662Air Compressor SetST263Receiver Tank for Air CompressorPC6664Dryer for Air CompressorPC265Forklift 3 TonPC266Tools BoxPC267F-ClampPC12068C-ClampPC5069Webbing SlingPC50
60Ring GaugePC261Computers/Laptops/PeripheralST6062Air Compressor SetST363Receiver Tank for Air CompressorPC064Dryer for Air CompressorPC365Forklift 3 TonPC366Tools BoxPC367F-ClampPC12068C-ClampPC5069Webbing SlingPC50
61Computers/Laptops/PeripheralST6062Air Compressor SetST63Receiver Tank for Air CompressorPC64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC12068C-ClampPC69Webbing SlingPC
62Air Compressor SetST63Receiver Tank for Air CompressorPC64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC68C-ClampPC69Webbing SlingPC
63Receiver Tank for Air CompressorPC64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC68C-ClampPC69Webbing SlingPC
64Dryer for Air CompressorPC65Forklift 3 TonPC66Tools BoxPC67F-ClampPC68C-ClampPC69Webbing SlingPC
65 Forklift 3 Ton PC 2 66 Tools Box PC 2 67 F-Clamp PC 120 68 C-Clamp PC 50 69 Webbing Sling PC 50
66 Tools Box PC S 67 F-Clamp PC 120 68 C-Clamp PC 50 69 Webbing Sling PC 50
67 F-Clamp PC 120 68 C-Clamp PC 50 69 Webbing Sling PC 50
68C-ClampPC5069Webbing SlingPC50
69Webbing SlingPC50
70Measuring TapePC200
70Measuring TapePC20071Steel RulerPC30
77 Saw Blade for HSS PC 50 78 Prefite Pareline Marking PC
78 Profile Bending Machine PC
79 Press brake Machine PC 20 Sharaka Linaka
80 Sheet Metal Folding Machine PC 21 Guillaria Machine DG
81 Guillotine Shearing Machine PC
82 Plate Rolling Machine PC
83 Polishing Tools PC 20
84 Sanding Tools PC
85 Scissor Lift (Man Lift) PC
86 Bus Body Grinding Machine PC 20
87 Metal Grinding Machine PC 20
88 Spray Paint Booth LOT
89Spray Painting Guns/EquipmentPC20
90Sanding EquipmentPC1291Welding Shield (Auto)PC10

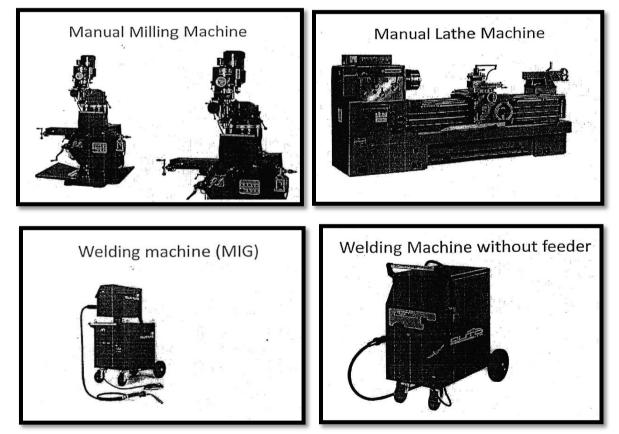
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02	A in Hose	DC	15
92	Air Hose	PC PC	15
93	Spare Parts for Welding Machine		12
94	Gas Cutting Torch	PC	10
95	Gas Regulator for Welding Machine	PC	12
96	Chain for Industrial use	PC	15
97	Swan Neck	PC	20
98	Gas Welding Torch	PC	22
99	Flashback Arrestor for Welding Machine	PC	20
100	Spare Parts for Grinding Machine	PC	10
101	Structure Production Moulds	ST	3
102	Structure Production Jigs/Fixture	ST	3
103	Structure Production Templates	ST	3
104	Fibre Production Moulds	ST	3
105	Metal Bar Cutting Machine	PC	5
106	Gas Regulator for Welding Machine	PC	20
107	Welding Torch	PC	10
108	Magnetic Core Drilling Machine	PC	5
109	Silicon/Sealant Applicator	PC	40
110	Wireless Mobile Column Hoist	ST	8
111	Heat Applicator for Upholstery	PC	2
	Computerised Software for Manufacturing (ERP-		4
112	Enterprise Resource Planning)	LOT	1
113	Server for ERP	LOT	1
115	Production Floor Computers/Monitors/Handheld	LUI	1
114	devices	LOT	10
115	Small Crane	ST	3
115	CNC Milling	ST	1
117	CNC Turning	ST	1
117	Projectors	PC	5
	5		
119	Video Conferencing System	ST	1
120	Main Servers/Back up Servers	ST	3
121	Floor Rubber Mounting Equipment	ST	2
122	Upholstery Sealing Application Equipment	ST	2
123		DC	• • • •
1	Warehouse Mobile Trolleys	PC	200
124	Warehouse Storage Racks	LOT	1
125	Warehouse Storage Racks Electric Stacker	LOT ST	1 2
125 126	Warehouse Storage Racks	LOT ST ST	1
125	Warehouse Storage Racks Electric Stacker Production Tools Cabinet & Work Bench Pipe Threading Machine	LOT ST	1 2
125 126	Warehouse Storage Racks Electric Stacker Production Tools Cabinet & Work Bench	LOT ST ST	1 2 20
125 126 127	Warehouse Storage Racks Electric Stacker Production Tools Cabinet & Work Bench Pipe Threading Machine	LOT ST ST UT	1 2 20 1
125 126 127 128	Warehouse Storage RacksElectric StackerProduction Tools Cabinet & Work BenchPipe Threading MachinePre-filter & After Filter for Air Compressor	LOT ST ST UT UT	1 20 1 20
125 126 127 128 129	Warehouse Storage Racks Electric Stacker Production Tools Cabinet & Work Bench Pipe Threading Machine Pre-filter & After Filter for Air Compressor Hydraulic Press Machine	LOT ST UT UT UT UT	$ \begin{array}{r} 1\\ 2\\ 20\\ 1\\ 2\\ 2\\ 2\\ \end{array} $
125 126 127 128 129 130	Warehouse Storage RacksElectric StackerProduction Tools Cabinet & Work BenchPipe Threading MachinePre-filter & After Filter for Air CompressorHydraulic Press Machine3D Welding Table & accessories	LOT ST UT UT UT UT UT	$ \begin{array}{r} 1 \\ 2 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{array} $
125 126 127 128 129 130 131	Warehouse Storage RacksElectric StackerProduction Tools Cabinet & Work BenchPipe Threading MachinePre-filter & After Filter for Air CompressorHydraulic Press Machine3D Welding Table & accessoriesWorkstation System FurnitureElectric Scissor Lift	LOT ST UT UT UT UT Lot	$ \begin{array}{r} 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 1 \end{array} $
125 126 127 128 129 130 131 132 133	Warehouse Storage RacksElectric StackerProduction Tools Cabinet & Work BenchPipe Threading MachinePre-filter & After Filter for Air CompressorHydraulic Press Machine3D Welding Table & accessoriesWorkstation System FurnitureElectric Scissor LiftWater Filtration System	LOT ST UT UT UT UT Lot UT UT	$ \begin{array}{r} 1 \\ 2 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \end{array} $
125 126 127 128 129 130 131 132 133 134	Warehouse Storage RacksElectric StackerProduction Tools Cabinet & Work BenchPipe Threading MachinePre-filter & After Filter for Air CompressorHydraulic Press Machine3D Welding Table & accessoriesWorkstation System FurnitureElectric Scissor LiftWater Filtration System2D Laser Cutting Machine	LOT ST UT UT UT UT Lot UT UT UT	$ \begin{array}{r} 1 \\ 2 \\ 20 \\ 1 \\ 2 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 1 1 1 1 $
125 126 127 128 129 130 131 132 133	Warehouse Storage RacksElectric StackerProduction Tools Cabinet & Work BenchPipe Threading MachinePre-filter & After Filter for Air CompressorHydraulic Press Machine3D Welding Table & accessoriesWorkstation System FurnitureElectric Scissor LiftWater Filtration System	LOT ST UT UT UT UT Lot UT UT	$ \begin{array}{r} 1 \\ 2 \\ 20 \\ 1 \\ 2 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \end{array} $

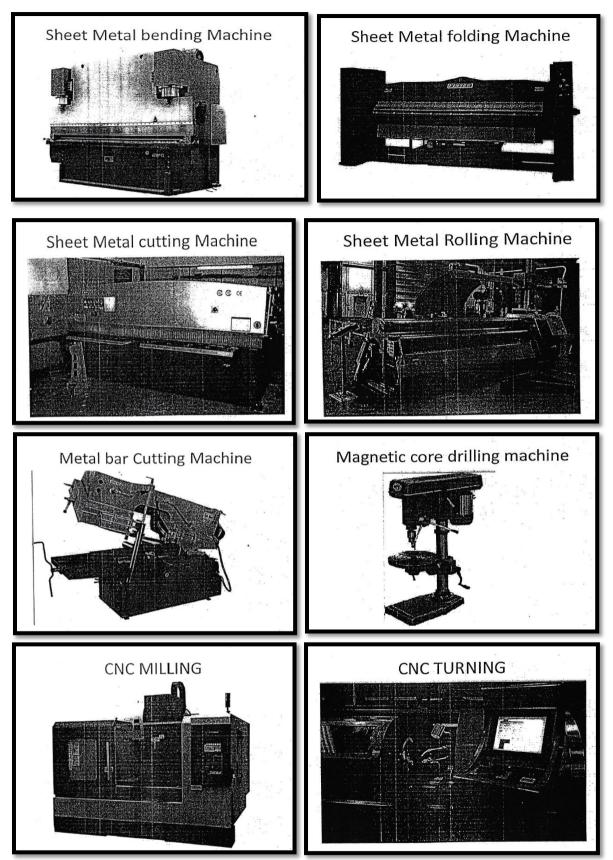
"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC A	uto (M	(yanmar)	Co.,	Ltd.
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138	Applicators for Wire Processing Machine	UT	30
139	Wire Harness Testing Machine	UT	1
140	Bench Top Wire Twister Machine	UT	1
141	Pneumatic Crimping Press Machine	UT	1
142	Wire Stripper	UT	1
143	Ultrasonic Metal Welding System	UT	1
144	Networking Switch Hubs	PC	7
145	Firewall Appliance for Network Security	PC	1
146	Biometric Security Devices	PC	20
147	Spare parts for Spray Paint Booth	PC	20
148	Compactor System	Set	1
149	Floor Rubbers & accessories	Lot	1
150	Storage Bins for Warehouse	PC	3000
151	Furnitures (Sofa, mattress, dining tables, chairs, lamps, coffee tables, curtains etc)	Lot	1
152	Spare parts for Machines repair	PC	50
153	Media wall system & accessories	lot	1
154	LCD TV for meeting rooms	lot	1
155	Water Feature	PC	3
156	Ventilator Fan	PC	5
157	Tools for machines	PC	20
158	Server Rack	PC	3
159	Paint Mixing Machine	UT	1
160	Dust Collector	UT	1
161	Tube Bender	UT	1

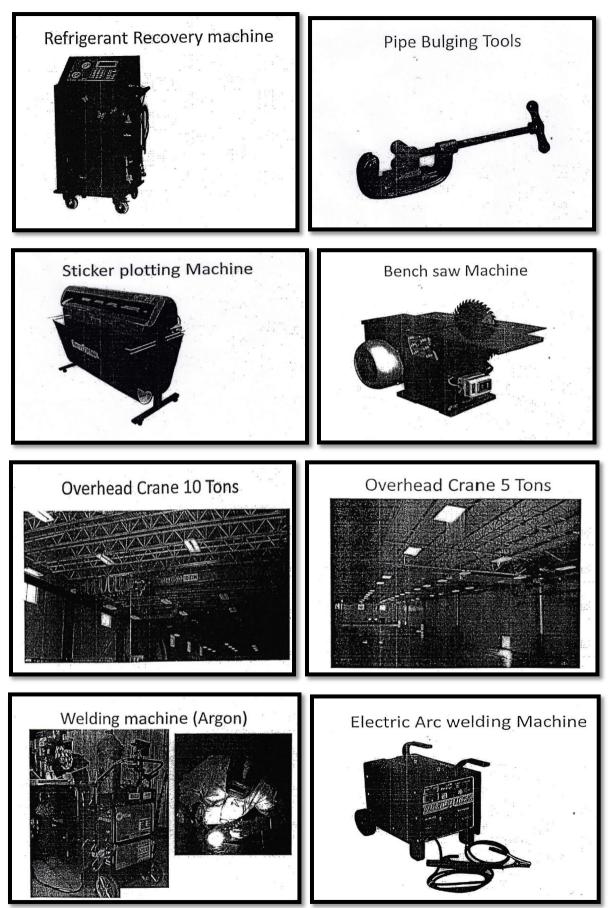


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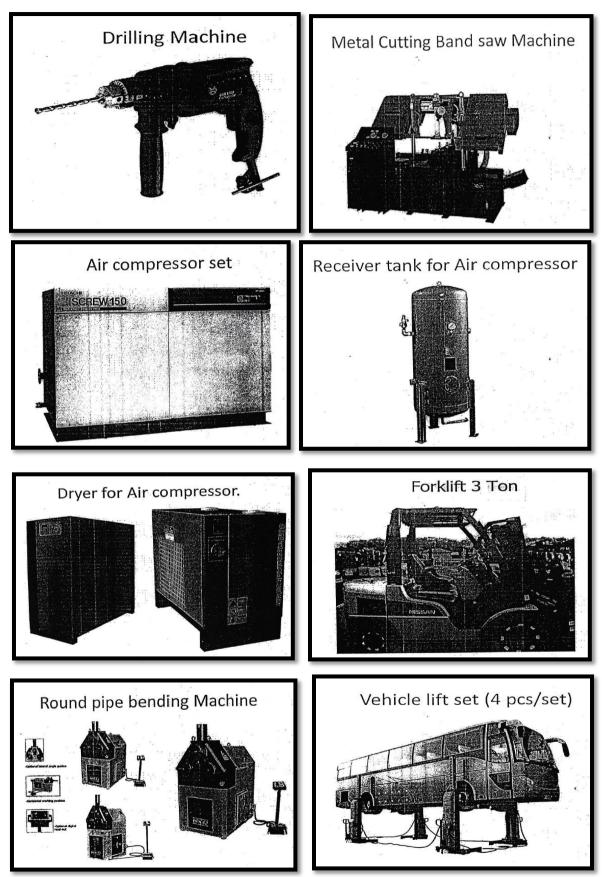


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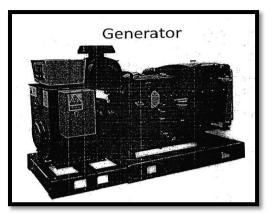


Figure 3.4 Photos Some using Machines

3.7 Product Profile and Production Capacity

The proposed investment business is the manufacturing, assembling and sales of buses, coaches, repair and maintenance services. The finished cars are driven to the factory's storage area which is 4.5 acres. And then, the buiers carry to their own bus station. The production capacities are presented in Table 3.5.

Table 3.6 Production Capacities

No.	Particular	A/C unit	Year 1 Sale Car Unit	Year 2 Sale Car Unit	Year 3 Sale Car Unit
1.	SC NEUSTAR (Local Sales) (28-55 seaters)	nos	40-60	70-90	90-120
2.	SC NEUSTAR (Export Sales) (28-55 seaters)	nos	30-40	30-50	40-60



Figure 3.5 Photos of Product Profile



Figure 3.6 Photo of Finish Product Storgage Sytsem

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3.8 Production Line

SC Auto Bus Production Line

- 1) Stage 1, Engineering Design
- 2) Stage 2, Raw Material cutting, bending, rolling
- 3) Stage 3, Parts Fabrication
- 4) Stage 4, Structure Frames, Engine, Axles, Gearbox, etc... Assembly
- 5) Stage 5, Body panel assembly & Interior Fittings
- 6) Stage 6, Air Conditioner System & electrical wiring Installation
- 7) Stage 7, Spray Painting
- 8) Stage 8, Quality Control & Checking

3.8.1 Stage 1-Engineering Design

Engineering design is based on the outcome from marketing team to build buses/coaches which meet customer need and want and to achieve socio economic environment (decreased energy consumption and resource efficiency, eg, decreased fuel consumption), Improvement of lifestyle, standard of bus transportation and, safety.



Figure 3.7 Engineers Design the Bus & Make Calculation

3.8.2 Stage 2-Raw Material Cutting, Bending, Rolling

In this stage of material preparation, raw material such as steel material, EG perforated sheet, and aluminum sheet will be pressed (cutting, banding, rolling) according to engineering design and calculation.



Raw Material Cutting

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Raw Material Bending

Figure 3.8 Raw Material Cutting and Bending

3.8.3 Stage 3-Parts Fabrication

Those prepared material will be fabricated into parts (body side frame, roof structure) with precise engineering calculation in this stage.



Materials are fabricated into parts Figure 3.9 Parts Fabrication

3.8.4 Stage 4-Structure Frames Assembly

After fabricated parts, next process is to structure frames and mounted onto chassis.

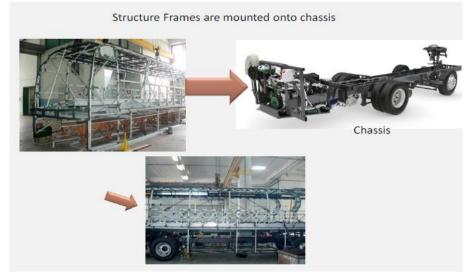


Figure 3.10 Structure Frame Assebly

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3.8.5 Stage 5-Body Panel Assembly and Interior Fittings

After fabricated, the finished parts will be assembled into exterior body panel (exterior panels are mounted to structure frames) and then, interior fitting such as flooring, ceiling works, seats audio/video accessories are installed.



Exterior panels are mounted



Interior fittings such as flooring, ceiling works, seats audio/video accessories are installed



Interior Finishing

Figure 3.11 Body Panel Assembly

3.8.6 Stage 6-Air Conditioner System & Electrical Wiring Installation

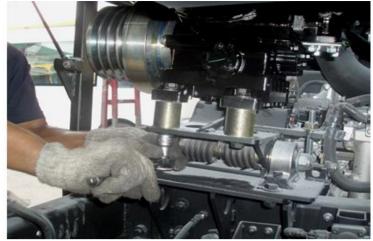
After body panel has been assembled, the air conditioning system and electrical wiring will be installed.



Air Conditioner System & Electrical wiring Installation

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Air Condition System & Electrical wiring is Installed Figure 3.12 Air Conditioning and Wiring Assembly

3.8.7 Stage 7-Spray Painting

Now, the bus is ready for spray painting. Chemicals used in spray painting process are bought form foreign country and stored according to prevention of hazard from chemical and related substances law. Spray painting process will be carried out in spray paint booth based on customer confirm design. We will see completed vehicle at the end of this stage (after spray painting).



The Bus is spray painted

Figure 3.13 Spray Painting

3.8.8 Stage 8-Quality Control and Checking

Before completed assembling bus that is going on road will be quality control and checking such as air flow performance test, sound & noise performance test and vehicle performance test.

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Air Flow Performance Test



Sound & Noise Performance Test



Vehicle Performance Test

Figure 3.14 Quality Control

3.9 Manpower

SC Auto (Myanmar) Company Limited has the following list of employees.

Table 3.7 List of Local Employees

No.	Description	Year 1-2	Year 3-4	Year 5-10
INO.	PRODUCTION			
1	Factory Manager	1	1	1
2	Assistant Factory Manager	3	3	3
3	Supervisor	5	24	25
4	Team Leader	9	80	90
5	Operator	83	155	200
	Total	101	263	319
	OFFICE & MANAGEMENT			
1	HR Staffs	3	3	3
2	Purchasing staff	3	3	3
3	Sales and marketing staff	7	7	8
4	Translator staff	1	3	3
5	Documentation	3	3	3
6	Accountant	6	6	7
7	Cleaning Clerk	2	2	2
8	Kitchen staff	2	2	2
9	Security guard	6	6	6
10	Driver	3	3	4
11	IT officer	2	2	2
12	M&E officer	2	2	2
13	General Manger	1	1	1
	Total	41	41	44
		· · · · · · · · · · · · · · · · · · ·		
1	Ware House	8	8	8

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

2	Engineer	20	20	22
	Total	28	28	30
1	Workshop			
2	Workshop Manager	1	1	1
3	Workshop supervisor	4	4	4
4	Technician	15	15	15
5	Sales & Marketing	3	3	3
	Total	23	23	23
	Grand Total	193	355	416

Table 3.8 List of Foreign Employees

No.	Description	Year 1-2	Year 3-4	Year 5-10
1	Supervisor	12	8	
2	Specialist	6	4	2
	Total	18	12	2

3.10 Project Schedule

The project is developed by SC Auto (Myanmar) Co., Ltd. in 2015. Construction period for this project is 1 year and 6 months. The validity of investment permit is 50 years. SC Auto (Myanmar) Limited has started its construction on 16th August 2016. The detail construction schedule is as shown in following figure.

Table 3.9 Project Schedule for the Project

Project Activities	Schedule
Project Starting Date	2015
Construction Period	August 2016~ February 2018 (1 year and 6 months)
Operation Period	50 years

Table 3.10 Project Implementation Schedule
--

					201	6								201	8				0	2	5
Implementation Activities and Schedule	Aug	Sep	Oct	Nov	Dec	Jan-Mar	April-Jun	July-Sept	Oct-Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep-Dec	2019-2020	2021-2022	2023-2065
Construction																					
Period																					
IEE Preparation			_													_					
Trail Operation																					
Period																					
Commerical																					
Operation Period																					_
Closing Period																					

Initial Environmental Examination Report "Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

)	Task Name	Duration	Start	Finish	М	Half 2, 20	16	.	N	Half 1, 2017	М	1	М	Half 2, 201		N	Half 1, 2018	3
1	SC Auto Master Schedule	397 days?	Tue 8/16/16	Tue 2/20/18	M		-	5	N		M		M		3	N	J	1
2	Preliminary	323 days	Tue 8/16/16	Wed 11/8/17							_							
20	Substation	159 days	Thu 2/2/17	Mon 9/11/17							+				-			
142	Canteen	158 days	Wed 2/22/17	Fri 9/29/17						F		_	_					
285	Factory 1	230 days	Wed 3/1/17	Tue 1/16/18													1	
391	Fiber Building	176 days	Mon 3/20/1	Mon 11/20/1														
495	Factory 2	217 days	Mon 3/20/1	Tue 1/16/18													1	
593	Office	200 days	Mon 4/24/1	Fri 1/26/18													1	
821	GUARD HOUSE & EXTERNAL WORKS	46 days	Mon 8/7/17	Mon 10/9/17														
831	Construct Underground Water Tank	80 days	Thu 8/10/17	Wed 11/29/1										Г				
847	Construct Water Treatment Tank	64 days	Fri 9/1/17	Wed 11/29/1											-	1		
856	New Drainage / IC / Sump	25 days	Fri 10/6/17	Thu 11/9/17											ſ	1		
859	Construct Drive Way	45 days	Fri 10/6/17	Thu 12/7/17											9 ₁		1	
861	Boundary Wall / Entrance Access	35 days	Fri 10/6/17	Thu 11/23/1:											Г	1		
863	Service Cable Installation	47 days	Fri 5/26/17	Mon 7/31/17										-1				
870	Hydrant Pipe Installation	69 days	Fri 6/2/17	Wed 9/6/17									-					
877	Site Acceptance Test	115 days	Wed 8/23/17	Tue 1/30/18													1	
899	Integration Test	8 days	Wed 1/31/18	Fri 2/9/18													Π	
904	Hand Over	7 days	Mon 2/12/18	Tue 2/20/18													F	1
906	Note : Above Schedule can change based on receiving date of Approved Drawing	1																

Figure 3.15 Construction Schedule

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

3.11 Operating Schedule

The operating schedule for this project is based on single shift basis and maximum 300 working days in a year.

Working hours	8:00 am ~12:00 am; 1:00 noon ~ 4:30pm;
Lunch break;	12:00 noon ~ 1:00 pm;
Working days / week	5 days; Monday to Friday

3.12 Utilities

Electricity

Electricity is transmitted from 11/0.4 KV national grid line to the Company's electrical system by connecting with one unit of 1000 kVA transformer at the factory. The necessary guidelines and precautionary measures relating to the use of electricity shall be adhered to. The internal infrastructure has to be designed. The necessary layouts and cable sizes needed are to be determined for the projected electrical demand.

Annual electricity requirement for the factory is tabulated in Table 3.10.



Figure 3.16 Transformer at Factory

Table 3.11 Electric Usage per Month (Yangon Electricity Supply Corporation)

No.	Month	Previous Month Unit	Current Month Unit	Difference
1	April 2019	161	202	41
2	May 2019	202	228	26
3	June 2019	228	254	26
4	July 2019	254	289	35
5	August 2019	289	324	35
6	September 2019	324	363	39
7	October 2019	363	402	39
8	November 2019	402	437	35
9	December 2019	437	480	43

Initial Environmental Examination Report "Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (M	yanmar) Co., Ltd.
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No.	Month	Previous Month Unit	Current Month Unit	Difference
10	January 2020	480	524	44
11	February 2020	524	576	52
12	March 2020	576	617	41
13	April 2020	617	647	30
14	May 2020	647	688	41
15	June 2020	688	730	42
16	July 2020	730	773	43
17	August 2020	773	817	44
18	September 2020	817	850	33
19	October 2020	850	882	32
20	November 2020	882	919	37
21	December 2020	919	947	28
22	January 2021	947	976	29
23	February 2021	976	993	17
24	March 2021	993	1008	15
25	April 2021	1008	1024	16
26	May 2021	1024	1041	17
27	June 2021	1041	1069	28
28	July 2021	1069	1090	21
29	August 2021	1090	1111	21
30	September 2021	1111	1136	25
31	October 2021	1136	1146	10
32	November 2021	1146	1194	48
33	December 2021	1194	1223	29
34	January 2022	1223	1246	23



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Figure 3.17 Generators at Factory



Figure 3.18 Power Station Builidng

Fuel Requirements

Diesel is used as fuel for generators and cars. Consumption of diesel is 2,000 litre per month. Factory buies diesel from Terminal Mingalardon with oil tanker transportation method and stored in tank at factory.



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Figure 3.19 Photos of Diesel Transportation and Storage Tank

Water Requirement

The project proponent uses 1200 litres per day of water from 2 inches diameter tube well in the project area. The water is pumped from tube well and stored in the 10,000 gallons ground tank.

3.13 Factory Buildings Description

Elevation and Section views of the factory building are shown in the following figure.

No.	Factory Building	Storey	Unit
1.	Office Building	3	1
2.	Canteen and Domentary	2	1
3.	Factory 1	1	1
4.	Factory 2	1	1
5.	Guard House	1	1
6.	Fiber Building	2	1
7.	Sub Station	2	1
8.	Pump House	1	1
9.	Guard House	2	1
10.	Service Factory	2	1

Table 3.12 Number of Buildings in the Factory

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3.13.1 Factory Compound

Factory compound level must be had 1.2 m higher than existing road level. Factory Building finishing level is 100 mm higher than Factory compound level. Office Building level 1 finishing level is 150 mm higher than Factory compound. Drain level is as shown on the drawings. Bio Treatment underground tanks are installed for domestic wastewater base on 64.5 cubic meters per day of 80 office staff and 300 workers. Bio Treatment underground tank is located at beside of Canteen pump room (under car park no. 1, 2 & 3) and Underground water tank (10 Meter (L) x 10 Meter (W) x 1.2 Meter (D)) located at in front of canteen and dormitory. M&E services are as shown on the Figure 3.19.

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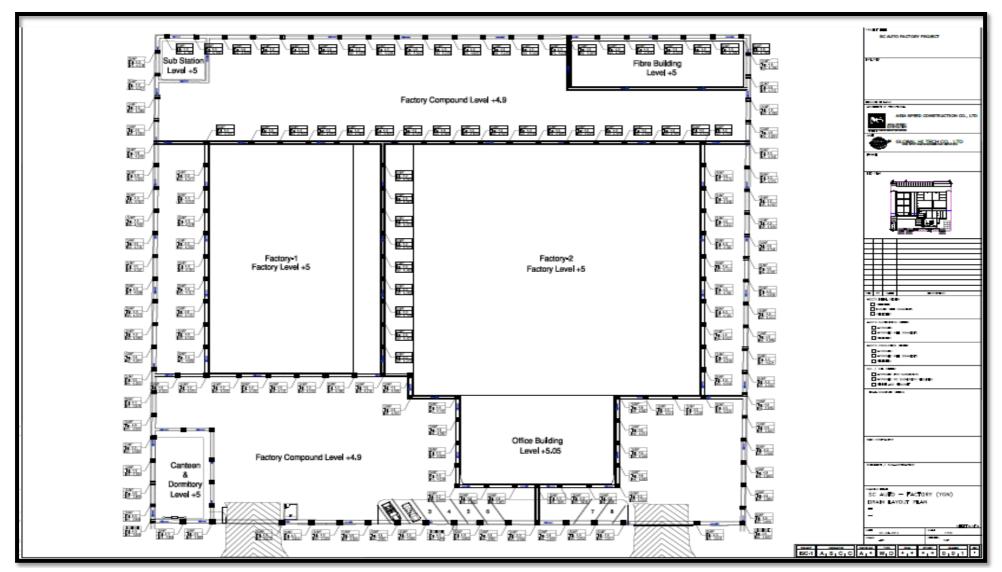
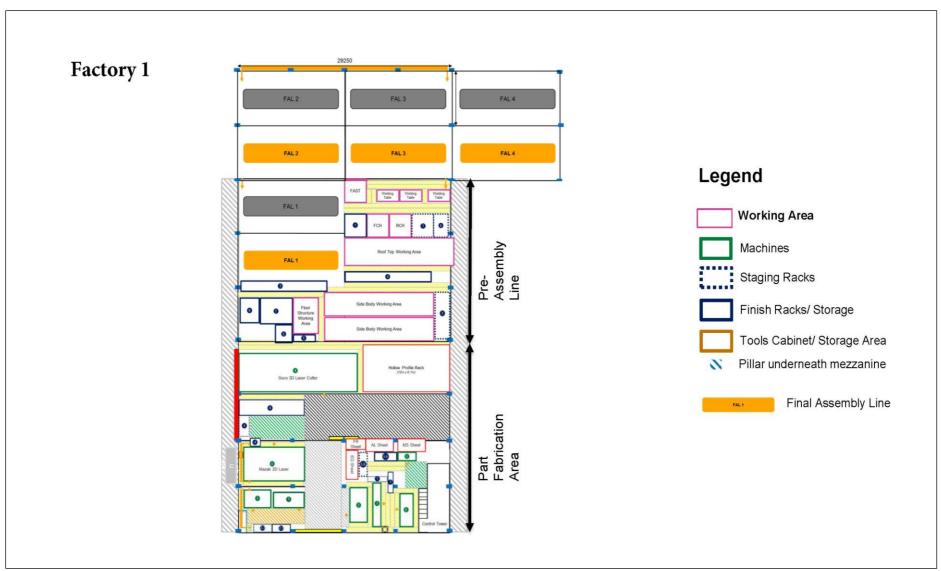


Figure 3.20 Factory Layout Plan

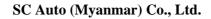
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Figure 3.21 Machine Layout Plan of Factory 1

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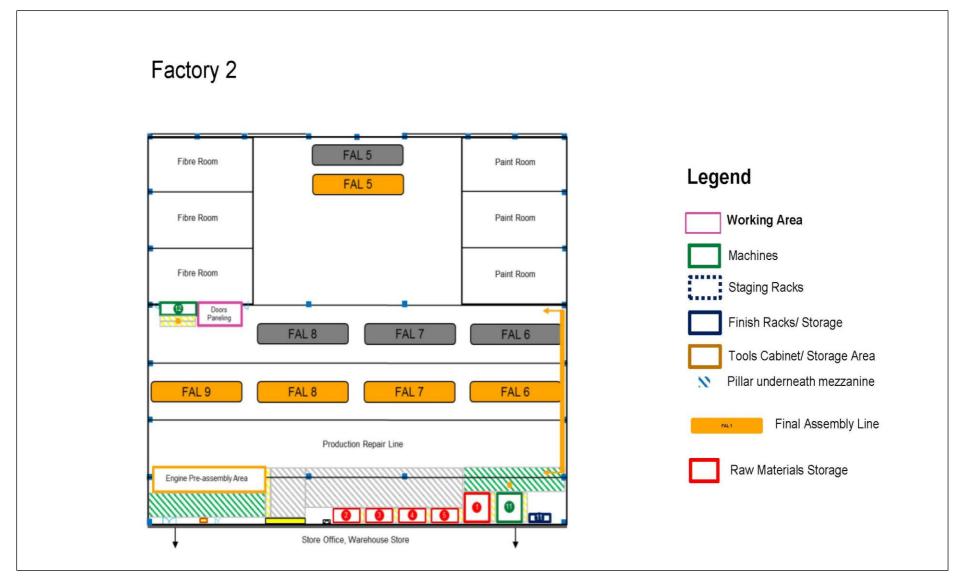


Figure 3.22 Machine Layout Plan of Factory 2

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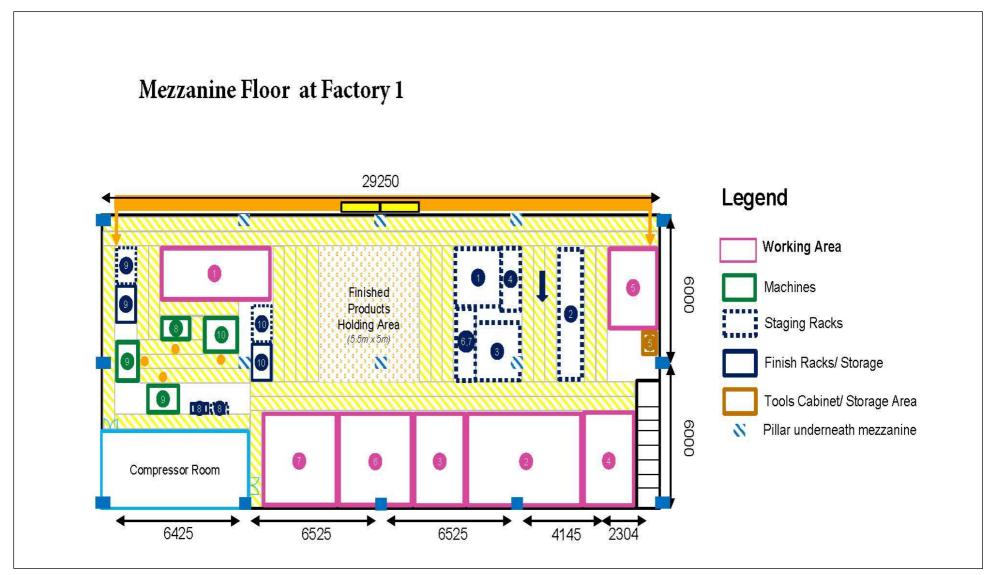


Figure 3.23 Machine Layout Plan of Mezzanine Floor at Factory 1

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Two main factories are linked with covered way and M&E services are as shown in the above Figure 3.22. The superstructure shall be in steel construction with RC stair cores.



Figure 3.24 Factory 1 and 2

3.13.2 Office Building

Office Building is a 3-storey building consisting office units, Meeting room, Toilet, Bed room, Kitchen, Laundry, GYM room, Dining room, common corridors, Canopy, escape staircases, Passenger lift, M&E services, risers, CSR etc as shown on the Figure 3.23. Water tank located on roof as shown on the Drawings shall be completed together with Office main building.

The superstructure shall be in accordance with selected Alternative Tender as specified the Contract (RC stair cores or CLT / Glulam construction with RC stair cores.



Figure 3.25 Main Office (HQ)

3.13.3 Fiber Building

Fiber building is a 2-storey building consisting Chemical store room, staircases, 3 Ton overhead crane, Toilet, M&E services as shown on the Drawings shall be completed together with Fiber main building. The superstructure shall be in steel construction with RC stair cores.

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Figure 3.26 Fiber Room

Fiber Reinforced Plastic (FRP)

Polymeric materials in automobiles have experienced a real boom in the last twenty years, and their application is increasing with a tendency of further growth. The basic functions of such wide application of polymeric materials in vehicles dictate the appearance of the automobiles, their functionality, economy and low fuel consumption. The application of polymeric materials allows more freedom in design, and in many cases only the polymeric materials can enable safe geometrical or economical solutions for the design parts.

With Resin transfer molding (RTM), the mould cavity is feed with resin under moderately high flow rate and pressure that is only limited by the structural ability of the molding tool and perimter clamping or press system to sustain mold closure. Working within these concerns, we then will build RTM tooling and clamping systems with structure great enough to sustain the flexing caused by the highest expected injection pressure during the molding cycle.

Resin transfer molding

Resin transfer molding (RTM) is a method for the production of component parts made of fiber–plastic composites. During the RTM procedure, dry semi-finished fiber parts are streamed and subsequently soaked with reaction resin by a pressure gradient within a closed vessel. The component hardens within the vessel. The pressure gradient can be produced by evacuation of the vessel or by admission of the resin with high pressure. The following methods can be distinguished with regard to the admission by the pressure gradient: high pressure injection, twin wall injection, vacuum injection, differential pressure injection.

With a specific focus on the environmental impact of injection molding – advancements in engineering means that injection molding machinery now

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uses 20%-50% less energy compared to 10 years ago and energy consumption is also something that is of expressive importance.

Worker safety clothing and equipment

Operator exposure to VOCs can be monitored by portable testing kits. As well as the emission of VOCs there are other hazardous materials such as dust resulting from the trimming and machining of FRP parts. It is therefore essential that suitable protective clothing is worn. Gloves, coveralls, goggles, masks and a whole range of other personal protection equipment are available direct from manufacturers or via specialist FRP, fiber reinforced plastic, distributors on a one-stop-shop basis.

3.13.4 Sub-station Building

Sub-station building is a 2-storey building consisting Diesel tank, staircases, Switchgear room, Slab opening, M&E services as shown on the Drawings shall be completed together with Sub-station main building. The superstructure shall be in RC with RC stair cores.

3.13.5 Canteen and Dormitory Building

Canteen and dormitory Building is a 2-storey building consisting Dinning Hall, Kitchen, Pump room, Toilet & Locker room, Bed room, M&E services, etc as shown on the Drawings.

The superstructure shall be in accordance with selected Alternative Tender as specified in the Contract (RC stair cores or CLT / Glulam construction with RC stair cores.



Figure 3.27 Canteen and Dormitory

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3.13.6 Gate House

The superstructure shall be in RC as shown on the Drawings. M&E services shall include as shown on the drawings.



Figure 3.28 Guard House

3.13.7 External Works

External works including pedestrian footpath, accessible ramps, road ingress /egress, parking areas, concrete pavement, roads /driveways /lanes /circulation areas marking an painting works with traffic signage, M&E services cable trenches, drainage system, concrete covered drains including connection to existing drain, manholes /ICs, pipelines, water lines, kerbs dividers /islands, works, road humps, height restriction gantries with protective / safety barriers, Fencing wall, company name & logo signage, etc as shown on the Drawings.

3.13.8 Service Building

During normal vehicle repair and maintenance activities, vehicle fluids may drip or spill or otherwise enter floor drains and sinks in service areas. These fluids may include engine oil, transmission fluid, power steering fluid, brake fluid, hydraulic fluid, antifreeze, chlorinated or non-chlorinated cleaning solvents and degreasers. This would generally apply to businesses that have a floor drain or shop sink in an area where motorized vehicle service or repair work is performed or any area where the liquids associated with those activities are stored. Discharges from any new or existing motorized vehicle repair and/or maintenance operation may not be connected to an onsite subsurface wastewater disposal system such as a septic tank/absorption field or drywell.

SC Auto will apply grease interceptor at the outlet industrial waste water before joining to storm drain.

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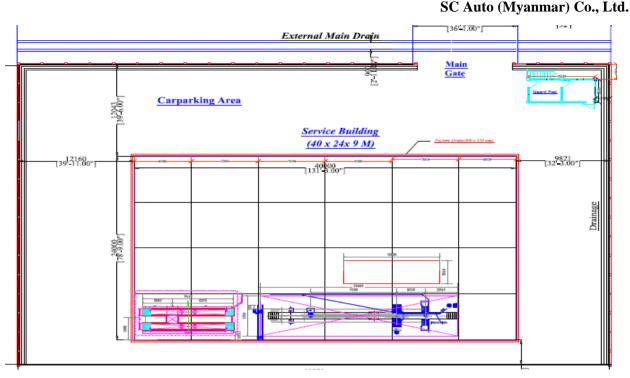


Figure 3.29 Layout Plan of Service Building

3.14 Waste Disposing System

3.14.1 Storm Water

Storm-water is rainwater that flows across outside surfaces into storm-water drains and gutters beside the street. The water is not treated and flows directly to creeks, rivers, groundwater and oceans. Storm-water should only contain clean rainwater, not pollutants such as general rubbish, industrial waste, heavy metals, oils and greases. This runoff is often polluted by materials that are handled or stored on the sites, and the facilities are subject to regulations to control the discharges.

Amount of wastewater from operation process and domestic usage is about 1,000 litres per day. SC Auto applies concrete pavement floor inside factory premises and storm-water drain. The drain system layout map is as shown in the Appendix (16).



Figure 3.30 Photos of concrete pavement and Drain Channel Green Myanmar Environmental Services Co., Ltd.

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It is recommended to follow the good practice mentioned here under;

- Prevent untreated spills from running into storm-water
- Bund all vehicle and parts wash areas.
- Bund all chemical storage areas.



Figure 3.31 Location of Storm Water Final Discharge Point at 16°56'50.2"N 96°11'40.6"E

3.14.2 Sanitary Water Disposal

Wastewaters originating from plumbing fixtures and appliances such as sanitary (toilets), bath, laundry, dish wash, garbage disposal, and cleaning wastewaters are as defined as domestic wastewater. Domestic wastewater is as routed to sewage disposal or bio-tank.

Bio-tank (septic tank) has many positive characteristics, confirming this is consumer feedback. This system is universal and compact. The first quality is as confirmed by the fact that the treatment plant can be located on sites with any geological conditions. The traditional septic tank is impossible to use it on clay soils or soils where underground waters are high.

As the clients emphasize, "Bio-tank" (septic tank) has very compact dimensions, it does not require too much space for its installation, so this option is the most suitable for small suburban areas. Consumers indicate that the area is also saved by the fact that the owner of the site does not need to install the infiltrator. It is impossible not to mention the simplicity of the design. The septic tank almost never fails, and if this happens, it is much less frequent compared to those models that have a more complex device. The sanitary drain system and sanitary treatment system

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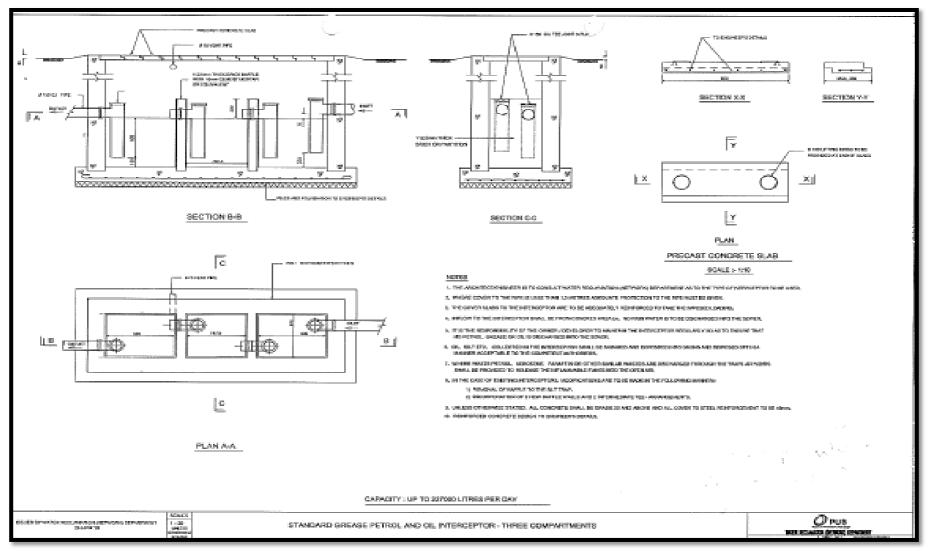
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(septic tank) loactions map area as shown in the Appendix (13). The sanitary system of Bio septic system process description and layout plan are as shown in the Appendix (17).

Description of Sanitary Darinage System

- 1. The skillful Plumber execute sanitary plumbing, sewerage and drainage. Installation which compliance with Client's M&E Design drawings and specifications.
- 2. All the soil and waste from fixtures are discharged from the sanitary appliances into the sanitary main stack pipe, which is disposed directly into the bio-treatment tank located at the ground floor via underground inspection chambers and collection pit.
- 3. The collected soil in collection pit pump up by a set of sewage ejector pump set (located inside the collection pit and the control panel located at canteen store room) to bio-treatment (waste water treatment system) tank's solid separation chamber. The kitchen wastewater from grease trap to discharge drain.
- 4. The wastewater in solid separation chamber then transfer to contact aeration biofilter chamber where the wastewater is aerated by means of blower and the excess sludge will return to solid separation chamber. From the aeration chamber, the over flow wastewater will flow to the sedimentation chamber.
- 5. The wastewater which is in the sedimentation chamber will also be aerated and the overflow water will only discharge to public drain.
- 6. The bio-treatment system is control by a panel located in canteen building ground floor Store room. The control panel which is consists of air blower control circuit. Fiber Building sanitary drainage system separately use septic tank and all the soil and waste from fixtures are discharged from the sanitary appliances into the sanitary main pipe, which is disposed directly into the septic tank located at the ground floor via underground inspection chambers. The wastewater which is in septic tank overflow water will only discharge to public drain.

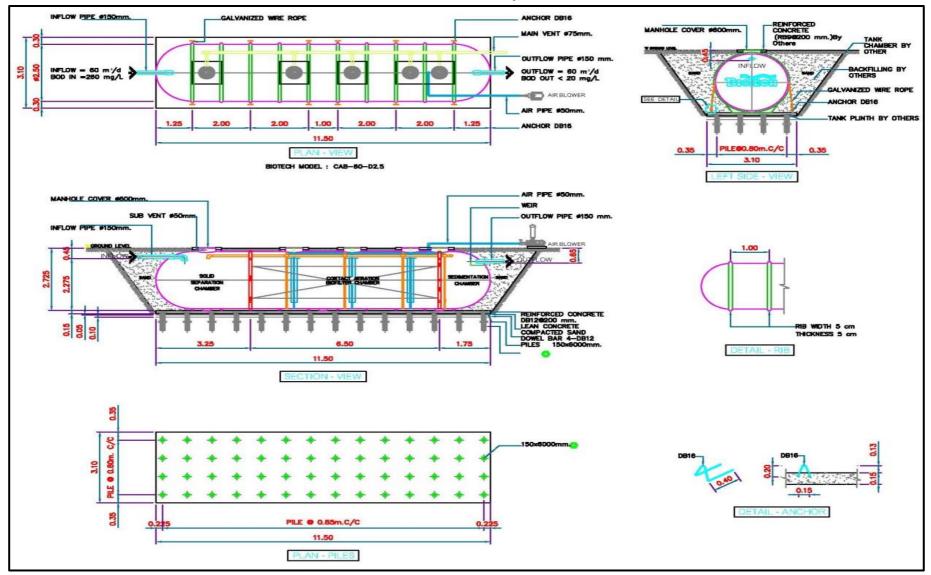
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Figure 3.32 Grease Interceptor for Sanitary Water Drain from Service Building

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Figure 3.33 Sanitation System Outlet

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1	Proc	cess	Contact aeration bio-filter
2	Dim	ension	BOD IN 250 mg/l BOD OUT 20 mg/l
			$\emptyset=2.5~m$, $L=50~m$, $H=2.75$
			Thickness = 8 mm
3	Med	lia	BIO CELL SPECIFIC SURFACE AREA
			RANDOM FLOW TYPE
			< 170 m2/m3 EGGED Shape HDPE
			(MEIDA VOLUME 14.92 m3)
4	Mat	erial	
	4.1	Body	FRP
	4.2	Separation Plate Baffle	FRP
	4,3	Draft tube	FRP
	4.4	In flow pipe	PVC
		Out flow pipe	$\phi = 150 \ mm$
		Air pipe	$\phi = 50 mm$
	4.5	RIB FRP WIDTH 5 cm and	10 RIBS
		thickness 5 cm every 1 m	
5	Mar	hole cover	ABS
6	Equ	ipment	
	6.1	Air Blower	I UNIT
		1.6 m3/min	
		(AT 3000 mm aq) 2.2 kw)	
		38 volt/3 phase/ 50 HZ	
	6.2	Sling galvanized wire rope	12 sets
	6.3	Control panel	1 set
7	Stan	idard	ISO 9001

Table 3.13 Specification of Bio Tank

3.14.3 Solid Waste Disposing System

Solid wastes may arise from several sources during assembly and the majority of wastes by volume result from packaging - reusable or disposable. Reusable packaging covers metal racks, bins and containers and disposable packaging covers wood pallets, cardboard, plastic, polystyrene and polythene film.

The company will establish proper management guidelines and ensure that all local requirements for on-site waste management are met, and train all employees on the waste management procedures.

The project proponent stores solid wastes temporary in factory's waste storage tank and manages arranges to dispose them by cooperation with Yangon City Development Committee via on call system.

3.15 **Project Alternatives**

The concept of alternative can be defined as a possible course of action, in place of another, that would meet the same purpose and need.

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3.15.1 No Project Alternatives

These are sometimes referred to as project alternatives, although the term activity can be used in a broad sense to embrace policies, plans and program as well as projects. Consideration of such alternatives requires a change in the nature of the proposed activity.

It is the best option for the business of manufacturing and assembling of parts, buses/ coaches by importing base raw material and rather than starting from producing raw material.

3.15.2 Alternative Sites

As Yangon Industrial park is in close vicinity of No.3 high way and Yangon international airport, the existing project location is the best place for availability of workforce from nearby community and good access for material transportation.

3.15.3 Process Alternative

Process of assembling and manufacturing process is dry process and therefore there will be no concern of wastewater disposal to surrounding. "Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

4.0 DESCRIPTION OF THE ENVIRONMENT

4.1 Location and Scale of Project

The project is located at No.188/189, 10th Road, Yangon Industrial Zone, Mingaladon Township Yangon Region. Total Land area is 4 Acres which include plot No.188/189.The scoping of the IEE study map is as shown in the folliwng figure. The scope is determined the 1 km diatemeter because the factory is situated in the Industrial Zone. The surrounding of the SC Auto (Myanmar) Co., Ltd. is factories. According to the ECD cooment, the factory is not located in the residential area. Therefore, religious building such as monastery, surface water such as river, creek and lake are not exsting near the factoy. The nearest surface water body is situated about 2.16 km that is Ngamoeweik Creek.

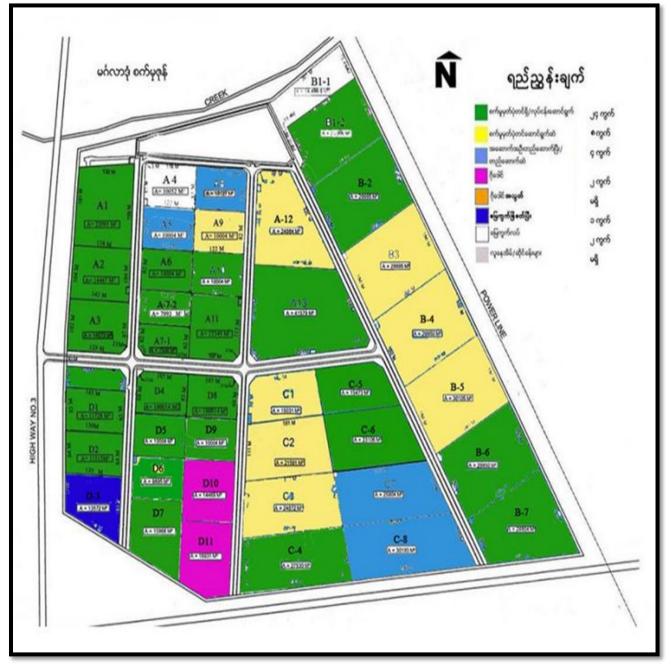


Figure 4.1 Plant Location Map

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Figure 4.2 Surrounding Map of the SC Auto (Myanmar) Co., Ltd

4.2 Topography, Geography, Geology, and Soil

Mingalardon is located in the northernmost part of Yangon, Myanmar. The township comprises 27 wards, and shares borders with Hmawbi Township in the north, North Okkalapa Township in the east, Insein Township and Shwepyitha Township in the west, and Mayangon Township in the south.

In the west side of township, Ngwe Yar mountain range connecting from south to north. Hlawga Lake situated at the west closed to boundary Shwepyitha Township.

Mingaladon is 144 ft above the sea level .In this town ship there are almost no streams or creeks, only one stream called Balar Chaung exist, flowing from north to south in only 12 miles and west from east in 8 miles. Draft, water depth of stream in rainy season is around 12 ft and 8 ft in summer, and therefore it cannot be used as waterway for transportation.

There are no adverse geological conditions providing feasibility for the construction of factory building and no wetlands and no plantation of any kind of trees in and around the project area. Also there is no major conservation of wildlife in the area

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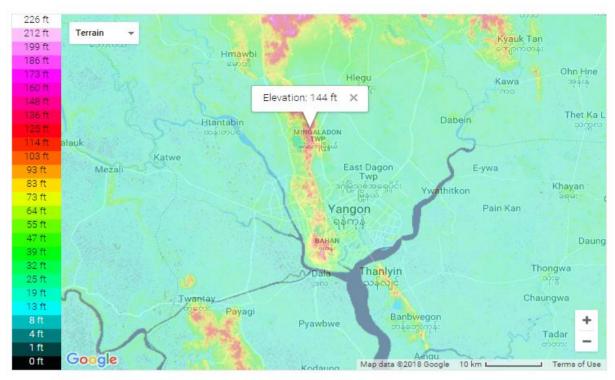


Figure 4.3 Topography of Mingaladon

4.3 Climate and Hydrology

The Mingaladon Township is located in the in the northernmost part of Yangon, Myanmar and has a tropical monsoon climate for hot and humid.

4.3.1 Temperature

Temperature profile is highest at 39 degrees Celsius and lowest at 15.5 °C. Reference from secondary data of Mingaladon Township from General Administration Department, here below is the temperature summary table for summer and winter.

	Temperature					
Year	Summer (°C)	Winter (°C)				
	Highest	Lowest				
2013	38	14.8				
2014	37	15				
2015	35	14.9				
2016	38	15.4				
2017	39	15.5				

Table 4.1 Temperature profile in summer and winter

4.3.2 Wind

Over the course of the year typical wind speeds vary from 0 m/s to 5 m/s (calm to gentle breeze), rarely exceeding 6 m/s (moderate breeze).

The *highest* average wind speed of 2 m/s (light breeze) occurs around April 24, at which time the average daily maximum wind speed is 4 m/s (gentle breeze).

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The *lowest* average wind speed of 1 m/s (light air) occurs around January 9, at which time the average daily maximum wind speed is 3 m/s (light breeze).

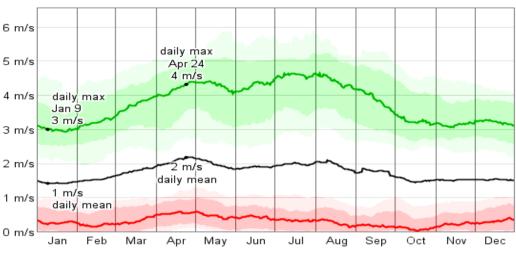


Figure 4.4 Wind Speed

The average daily minimum (red), maximum (green), and average (black) wind speed with percentile bands (inner band from 25th to 75th percentile, outer band from 10th to 90th percentile).

The wind is most often out of the west (17% of the time) and south west (13% of the time). The wind is least often out of the south east (3% of the time), north west (4% of the time), north (4% of the time), and east (5% of the time).

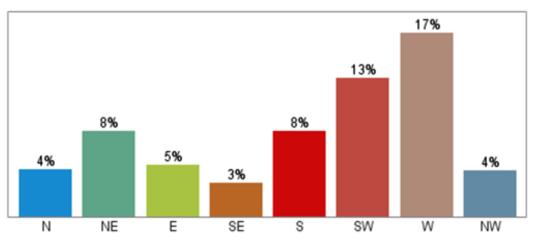


Figure 4.5 Wind Directions over the Entire Year

The fraction of time spent with the wind blowing from the various directions over the entire year. Values do not sum to 100% because the wind direction is undefined when the wind speed is zero.

Note: wind data is referring from Yangon City

4.3.3 Rainfall (Precipitation)

Yangon is supplied with an average of 2681 mm (105.6 in) of rainfall per year, or 223.4 mm (8.8 in) per month.

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• On average there are 125 days per year with more than 0.1 mm (0.004 in) of rainfall (precipitation).

The driest weather is in February when an average of 2 mm (0.1 in) of rainfall (precipitation) occurs

• The wettest weather is in August when an average of 602 mm (23.7 in) of rainfall (precipitation) occurs.

Table 4.2 Average	Precipitation Table for Yangon

		<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	Annual
	Average Precipitation mm (in)	5 (0.2)	2 (0.1)	7 (0.3)	15 (0.6)	303 (11.9)	547 (21.5)	559 (22)	602 (23.7)	368 (14.5)	206 (8.1)	60 (2.4)	7 (0.3)	2681 (105.6)
<u>_</u>	Precipitation Litres/m ² (Gallons/ft ²)	5 (0.12)	2 (0.05)	7 (0.17)	15 (0.37)	303 (7.43)	547 (13.42)	559 (13.71)	602 (14.77)	368 (9.03)	206 (5.05)	60 (1.47)	7 (0.17)	2681 (65.76)
	Number of Wet Days (probability of rain on a day)	0 (0%)	0 (0%)	1 (3%)	2 (7%)	14 (45%)	23 (77%)	26 (84%)	25 (81%)	20 (67%)	10 (32%)	3 (10%)	1 (3%)	125 (34%)
	Percentage of Sunny (Cloudy) Daylight Hours	87 (13)	77 (23)	79 (21)	76 (24)	46 (54)	20 (80)	19 (81)	24 (76)	26 (74)	56 (44)	81 (19)	84 (16)	56 (44)

Year	Temperature					
1 ear	Raining Days	Rain fall (inches)				
2013	120	102				
2014	115	99.89				
2015	130	105				
2016	126	104				
2017	117	193				

4.4 Air Quality

The ambient air quality measured at the perimeter of proposed project area can provide some indication of the air quality within the project area. The range of various pollutant levels measured at the perimeter of proposed project during the month of December are presented in Table 4.4 below. Details location of air quality monitoring point is 16°56'49.74"N & 96°11'42.29"E with Google Map is shown in Figure 4.6. The result of air quality is shown in Table 4.5. And then, National Environmental (Emission) Guideline is described in Chapter (2).

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Figure 4.6 Locations of Air Quality Monitoring Point

No.	Parameter	Results	Unit	Measuring Avg. Period		NEQG Guideline Value	Guideline Avg. Period
1	Nitrogen dioxide	67.74	µg/m ³	1	Hour	$200 \ \mu g/m^3$	1-hour
2	Particulate Matter PM ₁₀	42.67	µg/m ³	24	Hour	$50 \ \mu g/m^3$	24-hour
3	Particulate Matter PM _{2.5}	27.6	$\mu g/m^3$	24	Hour	$25 \ \mu g/m^3$	24-hour
4	Sulfur Dioxide	187.68	$\mu g/m^3$	10	Mins	$500 \ \mu g/m^3$	10-minute
5	Ozone	0.8	$\mu g/m^3$	24	Hour	$100 \ \mu g/m^3$	8-hour
6	Carbon Dioxide	348.09	ppm	24	Hours	NG	-
7	Carbon Monoxide	656.09	ppb	24	Hours	NG	-
8	Hydrocarbon	77.4	ppm	24	Hours	NG	-
9	Atomic Radiation	15.21	CPM	24	Hours	NG	-
10	Temperature	33.86	°C	24	Hours	NG	-

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11	Volatile Organic Compound (VOC)	0.88	ppm	24	Hours	NG	-
12	Wind Speed	1.49	Kph	24	Hours	NG	-
13	Wind Direction	233.24	Deg	24	Hours	NG	-
14	Relative Humidity	55.48	RH%	24	Hours	NG	-
Matar	NC No Cuidalina						

Note: NG – No Guideline

According to the above table, the results of having guideline parameters were acceptable limits.

4.5 Groundwater and Water Supply

Selected water quality parameters of ground and wastewater resources have been studied for assessing the water environment and evaluating the anticipated impact of the proposed project. The purpose of this study is to:

- Assess the water quality characteristics for critical parameters,
- Predict impact on water quality by this project and related activities and
- Suggest appropriate mitigation measures.

Water quality and wastewater quality at the project site and surrounding the project site were monitored at the two sampling points and detail descriptions of the locations of sampling points are shown in Table 4.5 and Figure 4.7.

 Table 4.5 Locations of Water Sampling Points

Type of Water	Coordination	Description of Location
Tube Well Water	16 [.] 56' 52.07" N	Temporary Water Storage
	96 [.] 11' 44.93" E	Tank (in the project)
Wastewater	16 [.] 56' 49.17" N	Municipal Drain Channel (In
	96 [.] 11' 42.07" E	front of the project)



Figure 4.7 Locations of Water Sampling Points

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4.5.1 Ground Water Quality

The ground water quality analyzed from the tube well located in the proposed project area can provide some indication of the water quality of the project area. The following Table 4.6 shows the water parameters measured during the month of November. [See Appendix (4)]

			Analysis Value	Dr	r Standards	
No.	Parameters	Unit	Tube Well	WHO (2011)	EPA (Spring 2012)	Indian Specification (IS:10500,2012)
1.	рН	-	6.72	6.5~8.5	6.5~8.5	6.5~8.5
2.	Chloride (Cl ⁻)	ppm	110	250	250	250
3.	Total Hardness as CaCO ₃	ppm	159	500	-	200
4.	Total Iron (Fe)	ppm	0.5	0.3	0.3	0.3
5.	Sulphate (SO ₄)	ppm	ND	250	250	200
6.	Total Alkalinity as CaCO ₃	ppm	157	-	-	200
7.	Turbidity	NTU	7.15	5	-	1
8.	Manganese (Mn)	ppm	0.3	0.4	0.05	0.1
9.	Aluminum (Al)	ppm	0.01	0.2	0.2	0.03
10.	Cyanide (CN)	ppm	ND	0.07	0.2	0.05
11.	Copper (Cu)	ppm	0.09	2	1	0.05
12.	Total Dissolved Solids (TDS)	ppm	213	600	500	500

Table 4.6 Results of Ground Water Quality Analysis

Note: As most of the parameters measured are within the normal range. It can be concluded that the water from the tube well can be used as domestic water.

According to the above table, total iron (Fe) value of tube well water sample exceeded the Drinking Water Standards. And then, turbidity value also exceeded the WHO (2011) and Indian Specification (IS: 10500, 2012), and manganese (Mn) value also exceeded the EPA (Spring 2012) and Indian Specification (IS:10500, 2012). All other parameters were within the desirable Drinking Water Standards.

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Figure 4.8 Photos of Tube Well Water Sampling

4.5.2 Wastewater Quality

In order to monitor the wastewater quality, wastewater sample from municipal sewage drain located in front of the factory was taken and tested at GMES laboratory. The results are presented in Table 4.7 and Appendix (6) and were compared with effluent level from National Environmental Quality (Emission) Guidelines (Dec, 2015) is shown in Appendix (4).

No.	Parameters	Unit	Analysis Value	National Environmental Quality Emission Guidelines (2015)
			Municipal Drain in front of the factory	General Applications
1.	pН	-	8.71	6 ~ 9
2.	Chemical Oxygen Demand (COD)	ppm	473	250
3.	Biochemical Oxygen Demand (BOD ₅)	ppm	95	50
4.	Ammonia (NH ₃)	ppm	ND	10
5.	Total Cyanide (CN)	ppm	ND	1
6.	Copper (Cu)	ppm	0.09	0.5
7.	Total Iron (Fe)	ppm	ND	3.5
8.	Oil & Grease	ppm	ND	10
9.	Phenols	ppm	0.36	0.5
10.	Sulphide	ppm	ND	1
11.	Total Suspended Solids (TSS)	ppm	155	50
12.	Zinc (Zn)	ppm	0.07	2

Table 4.7 Results of Wastewater Quality Analysis

Note: ND – Not Detectable

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According to the above table, COD, BOD and total suspended solids (TSS) values of municipal drain water sample exceeded NEOG (Effluent) - General Application. All other parameters were within the desirable limits of NEQG.



Figure 4.9 Photo of Wastewater Sampling from Municipal Drain in front of the Project

4.6 **Soil Quality**

In order to monitor the soil quality, soil sample in front of the project was taken and tested at GMES laboratory. The analysis results of the physico-chemical parameters are presented in Table 4.8.

			Analysis Value			
No.	Parameters	Unit	In front of the Project			
1.	pH	-	6.94			
2.	Chloride (Cl ⁻)	g/kg soil	0.085			
3.	Total Iron (Fe)	mg/kg soil	1			
4.	Arsenic (As)	g/kg soil	ND			
5.	Cyanide (CN)	g/kg soil	ND			
6.	Aluminum (Al)	mg/kg soil	ND			
7.	Manganese (Mn)	mg/kg soil	ND			
8.	P - Alkalinity	mmol/l extract	0			
9.	Total Alkalinity	mmol/l extract	28.5			
10.	Extractable Acidity	cmol/kg soil	6.25			

Т

Note: ND – *Not Detectable*

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Figure 4.10 Photo of Soil Sampling

4.7 Surface Water

In the vicinity project area, there is no stream near the project area. That is as shown in the Figure 4.2 because the project is located in the industrial zone.

4.8 Noise Environment

[`] Parameter for noise level survey was determined according to Myanmar National Environmental Quality (Emission) Guidelines (2015), and also determined by referring the National Environmental Quality Guideline-EQG (Dec, 2015) is shown in Chapter (2).

Noise survey has been conducted at the project site in order to establish an acoustic baseline onto which potential impacts from the proposed project may be superimposed. Noise level monitoring was also done at the same sampling points used for air quality monitoring. Noise levels measured with SOUND LEVEL METER (SL-4033SD) is showed in Figure 4.11 and the survey results are described in Table 4.9.

The noise level measured is lower than the permissible level for the commercial and industrial area. (Source: General EHS Guidelines: IFC-www.ifc.org). The location of noise measuring point is measured at the same place of the ambient measuring point, 16°56'49.74"N & 96°11'42.29"E. According to the ECD comment that above three time measuring aleast, this fact will carried out during monitoring period after approving the IEE report.



Figure 4.11 Sound Level Meter

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Figure 4.12 Locations of Ambient Noise Measuring Point

Table 4.9 Survey Results for Noise Level Determination		
Locations	Noise Level (dBA)	NEQG (dBA)
Near the Temporary Office during	63.11 (Day Time)	70
onnee during		

e	
Construction Period	58.32 (Night Time)
combinaction r enfoa	

Note: * Equivalent continuous sound level in decibels

4.9 Social and Cultural Resources

Area of Mingaladon Township is 128 km^2 and density $2582/\text{ km}^2$. Population of Mingaladon Township is 255,807 in 2014-2015. It was learnt that 93.00 % of the population is Bamar nationality, 1.21 % is Rakhine, 1.48% is Karan, 0.63% is Mon and the rest are Chin, Kachin ,Kayar and Shan.

70

Mingaladon has 27 Wards, 5 Village tracts and . According to statistics 29.38 % of the total population is under 18 year of age and 71.62% is above 18. The ratio of male to female is 1:1.1. The majority of the religion is Buddhist (95.49%), and Christian (1.63%), Hindu (1.26%), Islam (1.62%) respectively.

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Regarding about education, there are also 12 high schools, 13 Middle schools, 27 Primary schools and 22 monastic education schools.

For health-care facilities, 2 numbers of township level hospitals with 50 and 100 beds, 25 Private clinics, and 5 Village tract health care centers are available. There are three military hospitals for military services ;Defense Services General Hospital (1000-bed), Defense Services Orthopaedic Hospital (500-Bed), Defense Services Obstetric, Gynaecological and Paediatric Hospital (500 beds).

There are five NGO organizations and ten social organizations exist. Those who are Buddhists have chances do their religious deeds and 230 monasteries and to give their children basic education in 19 Nun schools.

For religion sector there are two Christian churches, two Islamic mosque and 5 hindu temple in township.

Hlawga National Park situated in Mingaladon, Yangon Division, Myanmar, 22 miles (35 km) north of Yangon. The 1,540-acre (623-hectare) park includes an 818-acre (313 hectare) wildlife park, a 62-acre (25-hectare) mini-zoo and a 660-acre (267-hectare) buffer zone. The park embraces the catchment area of the Zokanabe Lake, an extension dam built in 1921–24 to reinforce the greater Hlawga Lake which has supplied water to Yangon since 1904. The park was established in 1982 with joint-funding by the UNDP and the Burmese government[2] in order to protect the forests and vegetative cover in the catchment of Hlawga Lake, and to establish a representative collection of Burmese indigenous wildlife species of mammals, reptiles and birds, in their natural habitats.

One of the remarkable monument for the war is Allied War Memorial Cemetery at Htaukkyant, 32 km from Yangon, on the way to Bago. The Allied War Memorial Cemetery has 27, 000 tombstones of Allied soldiers who lost their lives in Myanmar during the World War II. The cemetery is peaceful and beautiful tended.

4.10 Ecological Resources

Ecological resources exist in National park of Mingalardon township.

4.10.1 History

The park embraces the catchment area of the Zokanabe Lake, an extension dam built in 1921–24 to reinforce the greater Hlawga Lake which has supplied water to Yangon since 1904. The park was established in 1982 with joint-funding by the UNDP and the Burmese government in order to protect the forests and vegetative cover in the catchment of Hlawga Lake, and to establish a representative collection of Burmese indigenous wildlife species of mammals, reptiles and birds, in their natural habitats.

4.10.2 Wildlife

The 818-acre (3.31 km²) wildlife park is home to various types of deer (eld's deer, hog deer, barking deer, sambar deer), as well as rhesus monkey, pythons, and pangolin. Their natural habitats consists of semi-evergreen forests, mixed deciduous forests, and swamp forests. According to a 1992 survey, the park was home to at least 21 species of mammals, 145 species of birds and 8 species of reptiles.Barking deer,

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hog deer and wild boar are the most common mammal species. Slow lores, pangolin and a few species of jungle cats used to roam the park at night feeding on figs, which is abundantly found in the park. The semi-evergreen type of vegetation creates ideal habitats for a variety of reptiles from monitor lizards to cobra, and krait (Bungarus fasciatus) to pythons (Python reticulatus).

4.10.3 Birds

Resident and migratory birds are abundant inside the park. Identified species include: the jungle fowl (Gallus gallus), red-vented bulbul (Pycnonotus cafer), lesser whistling duck (Dendrocygna javanica), Asian openbill stork (Anastomus oscitans), black-crowned night heron (Nycticonax nycticorax) and white-throated babbler (Turdoides gularis). Black-headed Bulbul (Pycnonotus atriceps).

4.10.4 Flora

The evergreen forest contains at least 295 species of plants. Common species are dipterocarps and Lagerstroemia speciosa. Also found are deciduous species such as teak (Tectona grandis) and binga (Mitragyna rotundifolia), and medicinal plants such as sindonma-nwe (Tinospora cordifolia)

4.11 Economic Development

Mingaladon Township is gradually developing. Residents enjoy their livelihood in agricultural, industrial, private and government service sectors. The Number (3) National High way Road is next to the Township. Residents could merchandise the goods produced from Industries nearby.

According to the statistics from Township Administrator office, local people have grown major crop, paddy in 2,765 acreage in raining season..

In livestock breeding sector, 67 buffaloes, 27 cows, 353 pigs, 173 goats, 88173 hens and 19000 ducks have been bred in 2016-2017 fiscal year. In milk production, 3441037 viss of milk was received from 3,772 cows in township at same fiscal year.

Local residents had consumed 101,500 viss of fish in 2014-2015.

A lot of industries such as paper mill, printing house, fruit juice factory, drinking water factory, flour mill, garment factory, plastic printing factory, bread and biscuit factory, noodle factory, and ply wood factory, peanut oil mill, soft drink factory, and bakery factory exist in industrial zone. Township as a whole has 100 factories are being running by 70604 labors and 16 numbers of petrol stations and 5 gas filling stations are opened in Township.

Hlawga CCGT Power Plant Myanmar is located at Southeast Bank of Hlawga Lake, Yangon, Myanmar. Location coordinates are: Latitude= 16.9827, Longitude= 96.1249. This infrastructure is Gas Power Plant with a design capacity of 154 MWatt. It has 4 unit(s). The first unit was commissioned in 1996 and the last in 1999. It is operated by Myanmar Electric Power Enterprise (MEPE).

As for transportation, the township has a facility of Yangon international airport and there are also public transportation system for buses.

5.0 IMPACT ASSESSMENT AND MITIGATION MEASURES

Environmental impact assessment has been carried out considering the impacts of proposed project with associated activities on important components of the environment and society. Firstly, all of the environmental components sensitive to proposed activities were identified during the field visit, local people's perception and worldwide practice of EIA. The mitigation measures for identified impacts are based on literature reviews, professional judgment and past experience from similar projects.

5.1 Methodology of Impacts Identification

The identification and assessment of impacts has been carried out by considering the proposed activities in terms of construction and operation stage. The impact of the activities will be on physical, biological, socio-economic and cultural resources within the industrial zone. The impacts generated are both beneficial as well as adverse. The environmental impacts have been identified for a number of issues based on the analysis of the environmental baseline information and activities that are to be undertaken (during construction, rehabilitation and subsequent operation phase). Most of the identified impacts have been quantified to the extent possible.

The impacts have been predicted in terms of their magnitude if significance (minor, moderate and high), extent (site specific, local and regional) and duration (short, medium and long term) as illustrated in Table 5.3.

5.1.1 Valued Ecosystem Components

Valued Ecosystem Components (VECs) are ecosystem components that are considered to be important or valuable and that merit detailed consideration in the EIA process (Treweek, 1999). The concept of VECs has been used in EIAs as a tool to highlight important receptors (individuals or groups) which could be effected (positively or negatively) by the different aspects of a project under a evaluation. The VECs are selected depending on the identification of pathways linking important environmental components with the totality of the project's activities, and as such, VECs are fundamental to the EIA process. The environmental resources can be divided into their key characteristics or categories from which the VECs can be selected. Table xx-1 presents a list of each environmental resource associated with the VECs that are deemed significant in terms of environmental and social importance in the context of this Project. Each of these VECs has been evaluated in terms of the construction and operational aspects of the Project and relevant mitigation measures will be recommended to ensure that all negative impacts are mitigated.

Environmental Resource	Valued Ecosystems Component	Importance of the Valued Ecosystem Component		
Air and Climate	Air Quality	• Effects on air for local residents		
		• Health implications for all users		
		• Effects on the ecosystem		
	Climate	• Contribution to global warming		

Table 5.1	Valued	Ecosystems	Components

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[Coomombology and Landson	• Changes in 1- 1 1
Land	Geomorphology and Landscape	Changes in land morphologyUse of non-renewable resources
		• Importance to local community
		• Effects of waste disposal methods
	Groundwater Quality	• Sustainability issues is
		groundwater considered a highly
		limited renewable resource in the
		area
		• Effects on local use irrigation and
		drinking
Water	Surface water quality	 Sustainability issues
		• Effects on local use (irrigation,
		drinking and transportation)
		• Health implications for all users
	River Water Quality	• Effects on local use (fisheries,
		transportation)
	Terrestrial Ecology and	• Health implications for all users
	Biodiversity	• Importance to biodiversity value (International, National and
	Diodiversity	Regional)
		• Important for ecosystem well
		being and proper functioning
Ecology and		• Use to community
Biodiversity	Marine Ecology and Biodiversity	• Importance to the well being of all
		biological content of the
		ecosystem
		High biological value
		(International, National and
		Regional)
	Caria Esperantia Artistica	• Economic use to community
	Socio-Economic Activities	• Employment opportunities
	Community Health and Safety	Community welfare
	Community Health and Safety	• Operations impact on community safety
		Reduction of gas flaring
Human	Noise Pollution	Nuisance to local community
Environment		• Influence on biological diversity
	Agriculture	Socio-economic importance
	6	National and community value
		creation
	Light pollution	• Nuisance to local community and
		ecosystem

5.1.2 Environmental Aspects

The environmental aspects are defined as the elements of an operation or project's activities, products, or services that can or does interact with the environment. The key environmental aspects associated with the Project are presented in Table 5.2 below.

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Project Component	Environmental Aspect					
Construction Activities – Site Preparation	Soil clearing and land leveling					
	Transport and equipment use					
	Purchase and delivery of construction					
	materials and services					
	Staffing					
Construction Activities – Civil Works and	Worker's temporary accommodation					
Mechanical Erection	Excavation and earthworks for Plant					
	foundation and buildings					
	Transport and use of vehicles and					
	construction equipment					
	Construction of infrastructure					
Operation Activities	Manufacturing car assembly					

Table 5.2 Environmental Aspects

5.1.3 Assessment of Impact Significance

The followings items are to be considered in impact significance rating

- Character of the VEC impact
- Duration of the Magnitude of the impact
- Spatial Extent Type (direct, indirect, cumulative)
- Probability of Occurrence

Table 5.3 Criteria rating for Impact Significance

Table 5.5 Criteria rating for I	
Duration –what is the lengt	
None	No effect
Short	Less than 1 year
Medium	1 to 10 years
Long	Greater 10 years
Permanent	irreversible
Magnitude-what is the effect	et on the resource within the study area?
None	No effect
Small	Affecting < 1% of the resource
Moderate	Affecting 1-10% of the resource
Great	Affecting $> 10\%$ of the resource
Spatial Extent – what is the s	scale of the impact in terms of area, considering
Cumulative impacts and inter	national importance?
Local	Localized/immediate area impact
Regional/National	Large scale impact
International	International scope and dimension
Type – what is the impact?	
Direct	Caused by the Project and occur simultaneously with
	Project activities
Indirect	Associated with the Project and may occur at a later time or
	wider area
Cumulative	Combined effects of the Project with other existing/planned
	activities
Probability – what is the lik	elihood of an impact occurring?

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Low	< 25%
Medium	25-75%
High	> 75%

The significance classes defined are outlined in Table 5.4 below.

Table 5.4 Significance Classes for Environmental Impact

Class	Significance	Description/Comments	
		Impacts are expected to be permanent	
1	Significant, major impact	and non-reversible on a national scale	
1	Significant, major impact	and/or have international significance	
		or result in legislative non-compliance	
2	Significant, moderate impact	Impacts are long term but reversible.	
		Impacts are considered to be short	
3	Insignificant, minor impact	term, reversible and/or localized in	
		extent.	
4	Insignificant	No impact is expected.	
5	Positive	impacts are beneficial to the key VECs	

5.2 Construction Phase Impacts Identification, Evaluation of Impact Significance and Mitigations Measures

5.2.1 Construction Phase Impact Identifications

5.2.1.1 Topography

Project lies in the plain area of industrial park and excavation is involved for the construction of building and factory. So, the impact on topography will not be significant in nature. The changes due to construction of the proposed Factory building, however, will be of localized nature. This impact is irreversible and minor negative in nature.

5.2.1.2 Contamination of Soil

The project area is a plain terrain with paved road structure. Soil erosion and contamination may occur on roadside, at contractors' camps due to the following likely impacts:

- Excavation of earth/cutting operations, clearing of vegetation and land leveling activities can destabilize the surrounding land surface, particularly if the excavated area is left unfilled for long, which may lead to rainfall induced soil erosion;
- The unspent materials and debris produced from consumed up materials, if left as such and allowed to mix with soil underneath, can degrade the quality of receiving soils and may render them unfit for plantation later on;
- Leakages of oils, lubricants, chemicals, and other similar substances from their storage sites and from engines of the generators, machines, equipment and vehicles can spoil the receiving soils and may undermine ability of the spoiled soils to support growth of vegetation and plants;

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- Non-provision of septic tanks with the temporary worksite toilets, constructed for the labor and others, can contaminate the effluent receiving soils because of raw nature of the effluents;
- Also washing of the gadgets, machinery and equipment without proper drainage of the washout water can adversely affect the soil quality. This impact is, however, temporary and minor negative in nature.
- Onsite storage of the construction materials such as sand, aggregate, crushed stone, cement, bricks, lubricants, fuels and iron bars on the land without an intervening barrier, can degrade soil quality and may smear them with fine particulates of the dumped materials;
- Improper on site storage of equipment and machinery such as wheelbarrows, mixers and compactors and disorderly parking of machinery and equipment may cause soil contamination from trickling or accidental leakages of oils and lubricants there from.

5.2.1.3 Surface and Groundwater

There is no significant surface water resource of the project area so there will be no impact on surface water quality during the construction of the project area. There is a possibility that various materials like fuel, lubricant oil and other oily products, which are used during the construction phase may contaminate groundwater, if they are not handled properly. During the construction phase, the sanitary wastewater will be generated at the workers' camp(s). If this wastewater is allowed to stagnate in water ponds on the site, it can percolate into the soil, thereby, contaminating groundwater.

Persistent and prolonged withdrawal of groundwater higher than the safe yield limits of the aquifer can initiate early depletion of aquifer. This situation can result in reduced water supplies for other users who share the same groundwater resource. Abstraction of the groundwater over and above the safe yield limit can produce serious hydrological and environmental consequences. Over abstraction can lead to:

- Early depletion of the aquifer resources;
- Persistent lowering of the water table;
- Reduced availability or non-availability of the groundwater to the neighbouring communities sharing the same aquifer

Mitigation measures will include;

- Protection of groundwater reserves from any source of contamination such as the construction and oily waste that will degrade its potable quality;
- The solid waste will be disposed off in designated landfill sites to sustain the water quality for domestic requirements;

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- Water required for construction is obtained in such a way that the water availability and supply to nearby communities remain unaffected;
- Regular water quality monitoring according to determined sampling schedule;
- Prohibit washing of machinery and vehicles in surface waters, provide sealed washing basins and collect wastewater in sedimentation/retention pond;
- Continuous withdrawal and over pumping of groundwater should be avoided. Instead, intermittent pumping be carried out to conserve the groundwater resources;
- Take precautions construct temporary or permanent devices to prevent water pollution due to increased siltation; and
- Wastes must be collected, stored and taken to approve disposal site.

Since the site would be de-watered, there is possibility of water draining out from wells within the neighbor-hoods. Furthermore, de-watering can introduce saline water into the water table and this could have an effect on the vegetation within the vicinity.

There are also sedimentation/ siltation of drainage or waterways from unconfined stockpiles of soil and other materials and pollution of nearby water body due to improper disposal of construction wastes.

5.2.1.4 Waste Generation

Construction projects produce a large amount of waste. The quantity of waste generated depends on various factors such as type, quality and contractor to mention a few.

Possible types of waste generated could be wood, concrete, metal, brick plastic etc... If the waste is not managed properly, this could be of nuisance to the neighborhood.

5.2.1.5 Noise Pollution

Operation of machineries and activities of foundation lying will generate considerable noise within the vicinity of the project site. However, noise related to construction would there be for a temporary duration.

The emergency power supply is obtained by a diesel generator and is built with a special noise elimination setting and the operating noise level is 75 dB within 7 meters. With the built-in special sound filter of the generator, any impact from the sound would be negligible.

5.2.1.6 Air Pollution

Land clearing, operation of diesel engines and use of toxic materials are some of the major activities that could lead to air pollution during

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construction. Dust from cement, wood and aggregates are considered to be PM_{10} or particulate matter less than 10 microns. This could be carried to long distances and is harmful for humans causing respiratory disease.

Another type of PM_{10} is exhausted from the use of diesel known as diesel particulate matter (DPM). Use of diesel machines can exhaust toxic gases such as carbon monoxide, hydrocarbons, nitrous oxides and carbon dioxide. Noxious vapors from oils, glues, thinners, paints, treated woods, plastics, cleaners and other hazardous chemicals that are widely used on construction sites, also contribute to air pollution.

Air quality will be affected by fugitive dust emissions from construction machinery; dust from the unpaved surface and construction vehicles. Emissions may be carried over longer distances depending upon the wind speed, direction, temperature of surrounding air and atmospheric stability. Besides, multifarious construction activities and increased vehicular traffic (construction vehicles) would also contribute to the localized airborne dust. Once in the air, the larger sized particles, under influence of gravity, tend to settle down in the immediate vicinity of the source. The suspended particulate matter (SPM) of the size smaller than 10 micrometer (PM₁₀) tends to remain suspended in the environment for much longer and persistent time and is an environmental hazard. The objectionable impacts of settling of the suspended dust would be its dry deposition on vegetation, glass windows, motor vehicles, buildings, and other exposed surfaces. Exhausts from fossil fuel burning in the construction machinery will also deteriorate local air quality. Similarly, exhausts from generators can also have impacts on air quality in the vicinity

5.2.1.7 Closure of Construction Camps

The contractor is required to properly remove all temporary structures built for operation of construction and workers camps. While doing so, the land will be brought back to original state. The impact is predicted to be direct, of medium significance, confined to construction area, and short-term.

5.2.1.8 Social Impact Assessment

Population Influx occurs due to resettlement or migrant of construction workers to nearby residential area

- Worker camp sitting: consultation surrounding potential construction camp sites revealed concerns regarding the location of proposed sites for Worker Camps.
- Tension between Communities and Workers: cultural differences, behavior of construction workers, potential disregard for local cultural norms, potential for prostitution and the attraction of "hangers on" at camp sites could lead to increased tension between local communities and the workers and camps. The scale of this impact will depend on successful

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implementation of mitigation measures and in part on the origin of the workforce staying in construction camps. Some communities have expressed particular concerns in this regard.

5.2.1.9 Health and Safety

Occupational Health and Safety

Health risks and work safety problems may result at the workplace if the working conditions provide unsafe and/or unfavorable working environment and due to storage, handling and transport of hazardous construction material. Workers should be provided with safe and healthy working environment taking into account risks inherent to the particular sector and specific classes of hazards in project area.

Community Health and Safety

The construction activities and vehicular movement at construction sites and access service roads may also result in road side accidents particularly inflicting local communities who are not familiar with presence of heavy equipment and machinery. This is a temporary and minor negative impact. Quality of ground water and surface water resources available in the nearby local communities may get contaminated due to the construction activities, oil spillage and leakage roadside accidents etc. The laborers work with different transmittable diseases may cause spread out of those diseases in the local residents.

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5.2.2 Determination of Significance of Impacts in Construction Phase

Table 5.5 Impact Significance during Construction Phase

Activity	VEC	Impact	Duration	Magnitude	Extent	Туре	Probability	Significance
Soil and land leveling	Air Quality	Increased air emissions (dust and exhaust emission)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MODERATE
	Geomorphology and Landscape	Geomorphologic changes and visual impact	PERMANENT	SMALL	LOCAL	DIRECT	25-75%	MODERATE
	Terrestrial Ecology and Biodiversity	Effect on flora and fauna	PERMANENT	MODERATE	LOCAL	DIRECT	25-75%	MODERATE
	Socio-Economic Activities	Increased economic activity	MEDIUM	SMALL	LOCAL	DIRECT	25-75%	POSITIVE
	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Construction of access roads	Air Quality	Increased air emissions (dust and exhaust emission)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Geomorphology and Landscape	Geomorphologic changes and visual impact	PERMANENT	SMALL	LOCAL	DIRECT	25-75%	MODERATE
	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Socio-Economic Activities	Local employment prospects	MEDIUM	SMALL	LOCAL	DIRECT	25-75%	POSITIVE
Purchase of supplies and services	Air Quality	Increased air emissions (dust and exhaust emission)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Human resource	Socio-economic activities	Local employment prospects	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE
Workers' Temporary Accommodat	Water resources and sewage	Potable water use and sewage disposal	MEDIUM	MODERATE	LOCAL	DIRECT	25-75%	MINOR

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ion	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE
Excavation, foundation, building	Air quality	Increased air emissions (exhaust, dust etc)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
works and mechanical erection	Geomorphology and landscape	Visual impact due to construction activities	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	REGIONAL	DIRECT	>75%	POSITIVE
	Noise Pollution	Increased noise levels	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Use of vehicles and construction	Air quality	Increased air emissions (exhaust, dust etc)	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
equipment	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE
Construction of	Biodiversity	Degradation of ecosystem	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
infrastructure	Noise Pollution	Increased noise levels	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
	Socio-economic activities	Increased economic activity	MEDIUM	MODERATE	LOCAL	DIRECT	>75%	POSITIVE
Waste disposal	Groundwater quality	Leaching of waste into aquifer	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
_	Community health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE

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5.2.3 Mitigation Measures

5.2.3.1 Contamination of Soil

- Excavations would be kept confined to the specified foundation spots as per the approved engineering drawings. Unnecessary excavations should be avoided;
- Site camps for the resident labors should not be setup on the land earmarked for developing green belts and lawns;
- Oils, lubricants, chemicals, and other listed hazardous materials should be stored safely at their designated spots, enclosures or store rooms, which should be safe from rainfall and away from any potential source of fire;
- Septic tanks of adequate capacities should be constructed for receiving and treating wastewater from all temporary worksite toilets and at the temporary container offices, if any. The toilet wastewater should not be discharged untreated onto the adjacent lands;
- All machineries and materials should be stored at the designated areas and compounds;
- All the unspent and left over materials should be completely removed offsite upon completion of construction and the site should be restored to original or near to original condition; and
- Washout from washing of equipment and gadgets should be drained into either a septic tank or a sand-gravel bed for removal of the grit and contaminants

5.2.3.2 Contamination of Ground and Surface Water

- De-watering would be planned during the low tides and would be carried out in the shortest time possible
- Trees within the vicinity will be watered to minimize the effect due to introduction of water into the water body
- Proper stockpiling of soils (on flat areas and away from drainage routes)
- Soils generated from civil works be disposed as filling materials
- Set-up temporary disposal mechanism within the construction area and properly dispose the generated solid wastes.
- Set up proper and adequate toilet facilities
- Strictly require the contractor and its workers to observe proper waste disposal and proper sanitation

5.2.3.3 Waste Generation

- Reusable construction materials would be isolated with much effort as possible.
- Collected waste would be carried to the dump yard on a regular basis.

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• A cleanup of the adjoining roads would be carried at the end of each day and adequate number and capacity of vehicles for removal would be maintained.

5.2.3.4 Noise Pollution

All the machineries used on site would be properly maintained to prevent unnecessary noise.

- The workers operating the machines would be wearing the proper protection gears.
- During the construction phase, work would be scheduled for the use of heavy vehicles (e.g. casting of slabs and beams) during the daytime to eliminate noise impact on sleeping.)

5.2.3.5 Air Quality

To avoid and minimize the fugitive dust emissions following measures will be implemented.

- The bare dry ground will be watered before excavation to minimize the dust emissions
- Water sprinkling will be undertaken in the excavation sites as require
- Regular watering of unpaved roads or exposed soils/ground
- Remove soil /mud from tires of trucks and equipment before leaving the area.
- Hauling trucks should be covered with canvas or any equivalent materials.
- Set-up temporary fence around the construction area.
- Dust sources will be screened by placing fine mesh over them. Other materials which could cause air pollution would be used covered and dampened down with use of water

5.2.3.6 Closure of Construction Camps

Contractor will prepare site restoration plans for approval by the Engineer. The plan will be implemented by the contractor prior to demobilization. Upon completion of the works, all temporary structures will be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy, at the contractor's expense, to the entire satisfaction of the Engineer. Residual topsoil will be distributed on spoil disposal area.

5.2.3.7 Social Impact Assessment

In order to minimize social disturbances as a result of construction workers, existing camps from previous projects will be identified as a first preference. State land will be a second preference for worker camp locations, followed by land where there is a willing lessee.

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- The project will seek to avoid sitting camps where their presence might contribute to any conflicts between residents.
- Employment policies which aim to maximize job opportunities for local people will help to minimize tensions caused by different socio-cultural values.
- Training will be provided to all staff on camp management rules and overall discipline and cultural awareness. This will include, in appropriate languages:
 - 1. A briefing on Camp Rules
 - 2. A community relations orientation to increase awareness about the local area, cultural sensitivities and the project Code of Conduct
 - 3. Awareness-raising on health considerations, including standards.
- A Code of Conduct and Camp Rules will be required within the Construction Camp Management Plan, which provides policies and a disciplinary framework with respect to worker behavior.

5.2.3.8 Health and Safety

Occupational Health and Safety

Mitigation measures will include:

- Obligatory insurance against accidents for laborers/workers;
- Providing basic medical training to specified work staff and basic medical service and supplies to workers;
- Layout plan for camp site, indicating safety measures taken by the contractor, e.g. firefighting equipment, safe storage of hazardous material, first aid, security, fencing, and contingency measures in case of accidents;
- Work safety measures and good workmanship practices are to be followed by the contractor to ensure no health risks for laborers;
- Protection devices (ear muffs) should be provided to the workers doing job in the vicinity of high noise generating machines;
- Provision of adequate sanitation, washing, cooking and dormitory facilities including light up to satisfaction;
- Proper maintenance of facilities for workers will be monitored;
- Provision of protective clothing for laborers handling hazardous materials, e.g. helmet, adequate footwear for bituminous pavement works, protective goggles, gloves etc;
- Ensure strict use of wearing these protective clothing during work activities;
- Elaboration of a contingency planning in case of major accidents;
- Instruct foremen to strictly enforce the keeping out of non-working persons, particularly children, off work sites; and

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• Adequate signage, lightning devices, barriers, yellow tape and persons with flags during construction to manage traffic at construction sites, haulage and access roads.

Community Health and Safety

Mitigation measures will include:

- There should be proper control on construction activities and Oil spillage leakage of vehicles.
- The labor works with different transmittable diseases should be restricted within the construction site.
- Efforts will be made to create awareness about road safety among the drivers operating construction vehicles;
- Timely public notification of planned construction works;
- Close consultation with local communities to identify optimal solutions for diversions to maintain community integrity & social links;
- Provision of proper safety and diversion signage, particularly at sensitive/accident-prone spots;
- Reducing the impacts of vector borne diseases on long-term health effect of workers should be accomplished through implementation of diverse interventions aimed at eliminating the factors that lead to disease, which includes: Prevention of larval and adult propagation of vectors through sanitary improvements and elimination of breeding habitat close to human settlements and by eliminating any unusable impounding of water;
- During construction work pedestrian and vehicular passages should be provided for crossing near settlement;
- Fencing around the camps should be strong enough so that it cannot be broken easily by local people for making passages; and
- Use of water should not disturb public water availability and source of water should be selected carefully

5.3 Identification of Impacts during Operation, Evaluation of Impact Significance and Mitigations Measures

5.3.1 Operation Phase Impact Identifications

The largest point-source emissions in the automotive industry are volatile organic compounds (VOCs) used as paint solvents. Fifty solvents found in paints and adhesive solvents are among the hazardous air pollutants. VOC emissions from these solvents occur during application, curing, and equipment cleaning operations. Several innovative paint technologies aimed at reducing the VOC burden associated with conventional solvent-base paint are emerging.

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Solid waste associated with a typical automobile and other wastes have been the target of industry reuse and recycling efforts. Reuse and recycling are important in ongoing efforts to optimize, as cost effectively as possible, energy use and material life cycles.

In general, reuse and recycling occur together, and the amount of solid waste generated can be expressed in tons per vehicle for both hazardous and nonhazardous wastes. Lists of material types that are recycled, expressed in number of pounds per vehicle, are maintained by automobile makers. This provides companies with the opportunity to track and report on the recycled content of their products.

Reuse by suppliers has also been encouraged throughout the industry. Working with suppliers, auto companies have reduced the costs of their own solid waste management and the costs of supplier packaging by requiring that materials delivered to plants be packaged in returnable dunnage.

5.3.1.1 Air Pollution

The majority of the emissions to air generated during motor vehicle assembly are volatile organic compounds (VOCs) emitted from painting and finishing operations (paint storage, mixing, applications, and drying). The emissions are primarily organic solvents, which are used as carriers for the paint and solvents used for cleaning equipment between color changes and to clean spray booths. Other emissions to air include:

- VOC emissions use of solvent based adhesives during Soft Trim;
- Isocyanates Spray booths/ovens & paint mixing area during use of paint containing isocyanates;
- Particulates Paint particulates from spray booths, dust from sanding. Spent filter material;
- Carbon dioxide and oxides of nitrogen where thermal or catalytic incinerators are used;
- Ozone may be released through the use of ultraviolet light curing lamps.

5.3.1.2 Hazardous Materials

Hazardous chemicals and process gases may be used in the assembly process of motor vehicles. Hazardous properties relating to these substances are many and varied and include flammability, combustion potential, toxicity, corrosive potential and oxidizing potential. Chemicals with such properties should be labeled with the appropriate internationally recognized hazard symbol. Some chemicals may only possess a hazard potential if they have the opportunity to react with other compounds.

Inadequate control or accidental releases of hazardous substances on site or in transit may result in significant environmental impacts in relation to soil, groundwater and surface water contamination and occupational health and safety, e.g. disposal of empty drums and packaging of fuel and chemicals.

5.3.1.3 Water Management and Wastewater

Under normal conditions, there should be no emissions to sewer or waters from vehicle coating and refinishing operations using solvent coatings. The new trend towards use of waterborne paints may result in some discharge to sewer, but pre-treatment will be required and authorisation to discharge to sewer or waters must be obtained in advance from regulating authorities. The source of such emissions would be waterborne paint gun washes and spray booth wash waters. Emerging treatment for such waste water is chemical flocculation followed by filtration or sedimentation.

There are several areas with a potential to contaminate waters via accidental discharge to drains and sewers or onto ground. These include gun wash within the paint gun cleaning unit. Residues from solvent-containing paint, waste gun cleaner or dirty water from wet filters (where used). There should be no open drains or sinks where solvent materials are being handled or stored. Other liquid waste include paint overspray caught by emissions control devices and unused paint.

Local communities and the environment may be affected by pollution due to discharge of untreated wastewater. The toxins in such water may affect local ecology as well as posing a hazard to drinking water supplies and contaminating land.

5.3.1.4 Solid Wastes

Solid wastes may arise from several sources during assembly and the majority of wastes by volume result from packaging - reusable or disposable. Reusable packaging covers metal racks, bins and containers and disposable packaging covers wood pallets, cardboard, plastic, polystyrene and polythene film. Other solid wastes include:

Scrap metal from the press shop, which is normally recycled off-site. Metal-rich dust generated by the abrasive disc smoothing of welds and soldered joints.

Sludge generated by wastewater treatment facilities of equipped vehicle manufacturing plants.

Additional wastes arise from general operations, cleaning and maintenance and the disposal of faulty equipment and parts. Improperly disposed of waste can lead to pollution and ground contamination.

5.3.1.5 Energy Consumption

Motor vehicle assembly plants use energy throughout the plants for many different end-uses. The main energy types used on-site are electricity, steam, gas and compressed air.

Paint shops are major energy consumers. Energy is used to condition the air for the painting and drying steps, and for treatment of the emissions and for ventilation.

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Some forms of energy production are damaging to the environment, such as the production of carbon dioxide from fossil fuel combustion. Energy security and energy price fluctuation are a concern in many developed and developing countries. The motor vehicle assembly industry has responded with many motor vehicle assembly sites introducing renewable energy sources such as wind and solar.

5.3.1.6 Waste Used Oil

Waste Oil is simply waste oil, any petroleum or synthetic oil that has already finished its work in the engine it was used to lubricate. Used Lube Oil is defined as the petroleum derived or synthetic oil which remains after the application of Lube Oil in lubrication, cutting purposes, etc

Typical vehicle maintenance activities include oil and filter changes, battery replacement, light metal machining et cetera. Potential wastes generated as a result of vehicle maintenance and repair activities are: used oils, spent fluids, spent batteries, asbestos brake pads and linings, metal machining wastes, spent organic solvents, and tires.

These wastes have the potential to be released to the environment if not handled properly, stored in secure areas with secondary containment, and/or protected from exposure to weather. If released to the environment, the impact of these releases can be contamination of surface waters, ground water and soils, as well as toxic releases to the air

5.3.1.7 Occupational Health and Safety

Chemical Exposure

Chemicals involved in the motor vehicle assembly may have a wide range of hazardous effects, including being toxins, carcinogens or highly corrosive upon skin contact. Direct skin and eye exposure to and/or inhalation of hazardous chemicals can result in health impacts for workers. Prolonged exposure over years can induce chronic health effects. Particular substances to be aware of include:

- **Coating powder.** Some components of coating powders can cause irritation of lungs, eyes and skin and allergic skin reactions. They can also cause long-term health effects or asthma.
- **Curing agents.** Some curing agents may damage genetic material, which could cause some diseases including cancer and impaired fertility.
- **Organic solvents**. The most commonly used solvents for degreasing are chlorinated solvents such as trichloroethylene, dichloromethane (methylene chloride) and
- erchloroethylene. These substances may be harmful to health if inhaled. The ill-health effects from inhalation would depend on the

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substance in use and the concentration and length of exposure. At high concentrations all organic solvents exert a strong narcotic effect and can be fatal. Skin exposure can cause irritation and dermatitis.

5.3.1.8 Noise and Vibration Pollution

Vehicle assembly plants can be noisy work places due to the high level of use of machinery. Transport of products by road may also generate noise. The main source of noise generation is due to plant operation, generation from vehicle movement and especially from the operation of generators, compressors, raw material cutting and bending, etc. Those at risk include machine operators and those working nearby, e.g., maintenance staff, cleaners, forklift truck drivers and shop floor supervisors.

Noise may reach levels that are hazardous to health, leading to symptoms associated with permanent deafness. Noise, particularly during unsocial hours, may cause annoyance or disruption to local communities.

Hand-arm vibration syndrome from the prolonged use of vibrating tools and machinery causes effects on the body's blood circulation known as 'vibration white finger' (VWF). Other damage may be caused to the nerves and muscles of the fingers and hands causing numbness and tingling, reduced grip strength and sensitivity. Pain and stiffness in the hands, and joints of the wrists, elbows and shoulders are other possible symptoms.

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5.3.2 Determination of Significance of Impacts in Operation Phase

Table 5.6 Significance Impacts Rating during Operation Phase

Activity	VEC	Impact	Duration	Magnitude	Extent	Туре	Probability	Significance
1) Stage 1, Engineering Design	-	-	-	-	-	-	-	-
2) Stage 2, Raw	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Material cutting, bending, rolling	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
3) Stage 3, Parts	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Fabrication	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
4) Stage 4, Structure	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Frames Assembly	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
5) Stage 5, Body panel assembly & Interior Fittings	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
6) Stage 6, Air Conditioner System & electrical wiring Installation	6) Stage 6, AirOccupationalAdverse healConditioner SystemOccupationalAdverse heal& electrical wiringHealth and safetyimpacts		MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
7) Stage 7, Spray	Air quality	VOC	LONG	MODERAT E	LOCAL	DIRECT	<25%	MODERATE
Painting	Occupational Health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
8) Stage 8, Quality Control & Checking	-	-	-	-	-	-	-	-
Solid Waste disposal	Ground water quality	Leaching of waste into aquifer	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
	Community health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE

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5.3.3 Mitigation Measures

5.3.3.1 Air Pollution Control

- Consider use of alternative or low VOC coatings/paints.
- Increase the transfer efficiency of the application technique.
- Capture and concentrate VOC emissions, e.g. with activated carbon.
- Implement a Solvent Management Plan to monitor and control the use of solvents on site.
- Install or upgrade abatement technology to minimize exposure to hazardous substances and to control the release of emissions, e.g. enclosure of equipment, use of appropriate ventilation with filters, gas balancing systems, cyclones, and wet or alkali scrubbers.
- Monitor indoor air quality and use signage where there are elevated levels of emissions and personal protective equipment (PPE) is required. Therefore, PPE will provided for operation stating. PPE samples are as shown in following Figure 5.1.



Figure 5.1 Personal Protective Equipments (PPEs)

• Implement prevention of a formal Leak

At Painting rooms and fiber making rooms, VOC emissions are exhaust installed. There are included filters. When painting, air will come from ventilators and air flow from up to down and then this air that is containing VOC pass through the filters to the ambient with exhausts.

Air Filtration System

Major source of VOC generation in project is from Spray booth and Fiber room. Project Proponent will install inlet and outlet air filtration system designed by INFITECH.

Filtration System by Infitech Inlet Filter—Pocket filter

This is a double-filtering system for the fresh air which is driven by the ventilation-in and ventilation-ex fan simultaneously during painting phase and introduced to the operation area.

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The first filtering device is placed to keep dust off the fresh air to prevent dust from contacting the ventilation-in fan, which provides longest durability/functionality for the fan(s).

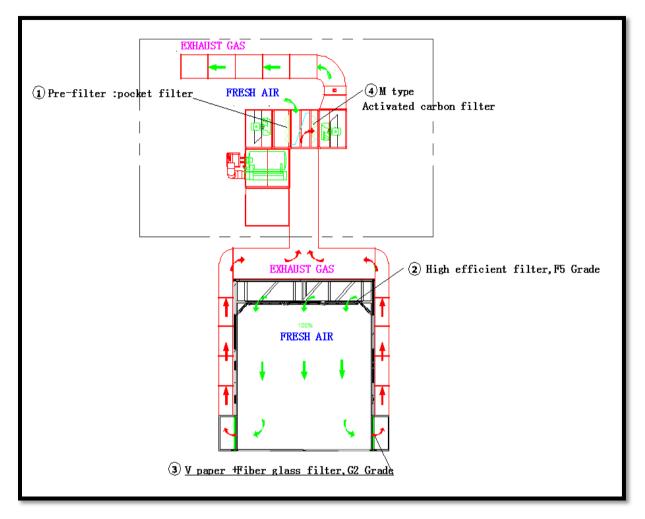


Figure 5.2 Inlet and Exhaust Air Filtration System

It is very important to guarantee large area for the filters to purify the incoming and outgoing air, and maintain suitable air flow without turbulence in the booth to achieve quality result for the painted surface, and cure the wasted air before it is exported to the atmosphere. Even though the machine applies big-area filter, the maintenance of replacing filters is designed to, and can be handled easily by one man.

Table 5.7 Exhaust Air Filtration System

Item	Specification
Inlet Filter	Pocket Filter
Micro dust Filter	High efficiency CC-600G
Floor Filter	V-paper and fiber glass filter
Exhaust Filter	Activated carbon filer mat, M style

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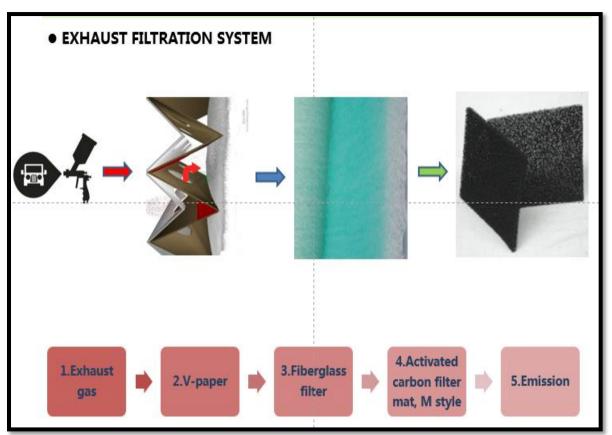


Figure 5.3 Exhaust Air Filtration System

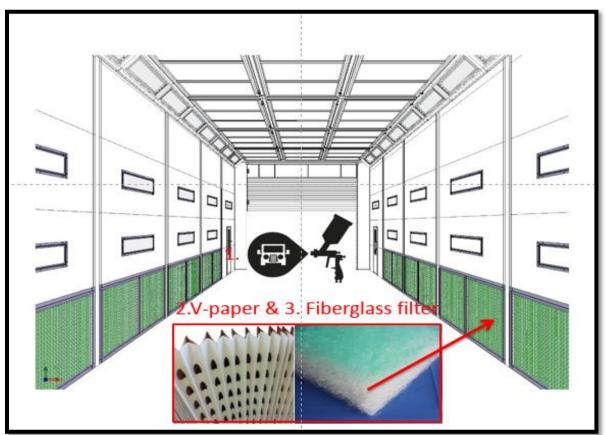


Figure 5.4 V paper and Exhaust Air Filtration System

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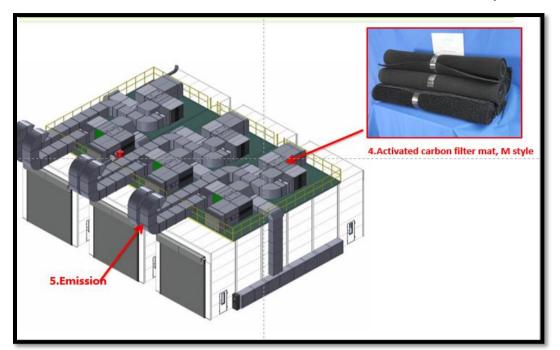




Figure 5.5 Activated carbon Filter

5.3.3.2 Hazardous Material

- Consider feasibility of substitution of hazardous chemicals such as solvent based paints with less hazardous alternatives. Label chemicals with appropriate, internationally recognised, hazard symbols.
- Chemicals with different hazard symbols should not be stored together clear guidance on the compatibility of different chemicals can be obtained from the Materials Safety Data Sheets (MSDS) which should be readily available from the manufacturer and on site.
- Store chemicals in a dedicated, enclosed and secure facility with a roof and a paved/concrete floor. Chemical tanks should be completely contained within secondary containment such as bunding.
- Install devices to prevent spills and overfills, e.g. alarms to warn of overfilling and automatic shut-off devices or secondary spill containment.
- Maintain and inspect storage units regularly.
- Consider installation and use of groundwater monitoring points on site to check for contamination. Implement a Solvent/Hazardous Materials

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Management Plan to monitor and control the use of solvents and hazardous materials on site.

5.3.3.3 Mitigation measure on Water Management and Wastewater

- Minimize the consumption of water used in production processes and equipment cleaning.
- Consider upgrades to wastewater treatment facilities.
- Recycle wastewater where possible, e.g. certain solvent wastes such as gun wash can be sent for recovery and reuse in another application where these facilities are available
- Ensure untreated wastewater does not discharge to watercourses through use of wastewater treatment facilities and monitoring of wastewater discharges.

5.3.3.4 Mitigation Measure on Energy Consumption

- Improve thermal efficiency of heating equipment to minimize heat loss.
- Monitor and target energy usage and implement behavioural change programmes.
- Consider opportunities to switch to cleaner fuels or renewable energy sources.
- Install compress air pipe line for using the compress air using machines to reduce the energy at factory.



Figure 5.6 Photo of Compressed Air Pipe Line

5.3.3.5 Mitigation Measure on Solid Waste

The following solid waste can recycled

- Cupboard- From dashboards to cotter pins, much of what is used in the assembly process arrives in cardboard boxes.
- Wood-Some items are too large or fragile to be shipped in cardboard and are sent via wooden shipping containers. There is also an abundance of wooden pallets used to stack and move a variety of parts ad components. All this scrap wood is sent to a local mulch factory

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• Metal scrap -Not often, but occasionally, metal components such as door panels and under body parts do not pass muster and are scrapped.

5.3.3.6 Mitigation Measure on used Oil

Project proponent will properly store used oil in containment and transferred to certified waste collector, township YCDC.

Auto-mechanics requires relatively higher levels of formal and informal education to enable them appreciate issues of good housekeeping including the use of preventive maintenance in an effort to reduce the number of leaks and spills of used oils that occur.

5.3.3.7 Mitigation Measure on Occupational Health and Safety

- Provide personal protective equipment (PPE) that is fit for the task to prevent injury and maintain hygiene standards. Train staff in the correct selection, use and maintenance of PPE, and put in place measures to encourage/ mandate its use.
- Implement a program of assessment of routine monitoring of workers' health.

5.3.3.8 Mitigation Measure on Noise and Vibration

- Conduct a noise survey and mark out dedicated areas with signage where there are elevated noise levels and PPE is required.
- Enclose noisy machines to isolate people from the noise where practicable.
- Noisy area must be covered the sound proof barriers. (e.g; generator room must be covered sound proof wall.)
- Reduce vibration exposure times and provide PPE where people may be exposed to vibration.
- Limit scrap handling and transport during unsocial hours to reduce noise.

5.4 Identification of Impacts during Decommissioning, Evaluation of Impact

SC Auto Myanmar would not have an operational life and decommissioning is based on SC auto proponent decision. Decommissioning of the SC Auto Plant would be carried out in accordance with legislative requirements at that time. However, if market conditions and/or electricity supply requirements at that time indicate that it would be appropriate to extend the life of the SC Auto Plant, then decommissioning could be deferred to a later date.

5.4.1 Decommissioning Phase Impact Identifications

Impacts during decommissioning will be generated from demolition of structure and major impacts will be solid waste disposal of destroyed infrastructure. During the decommissioning phase, there will be noise impact due to demolishing activities of office & factory buildings and other facilities. However, this impact will be short-term.

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5.4.2 Determination of Significance of Impacts in Decommissioning Phase Impact

Table 5.8 Significance Impacts Rating during Decommission Phase

Activity	VEC	Impact	Duration	Magnitude	Extent	Туре	Probability	Significance
Waste	Groundwater quality	Leaching of waste into aquifer	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
Disposal	Community health and safety	Adverse health impacts	MEDIUM	SMALL	LOCAL	DIRECT	<25%	MODERATE
	Noise Pollution	Noise generation	SHORT	SMALL	LOCAL	DIRECT	25-75%	MINOR
Dismantling infrastructure	Socio-Economic Activities	Local employment prospects	MEDIUM	SMALL	LOCAL	DIRECT	25-75%	POSITIVE

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5.4.2.1 Mitigation Measures in Decommissioning Phase

Mitigation measure during decommissioning phase is to develop waste management plan for decommissioning phase.

5.5 Emergency Risk Assessment and Response Plan

5.5.1 Initial Risk Assessment (Fire, Flood, Earthquake)

Catastrophic and disastrous events bring huge impacts to human beings and the environment. Therefore, it is required to evaluate emergency risk assessment for any project in an earlier stage even though they are low in probability of risks. There are various risk in operating carbon composite sport equipment manufacturing factory as in any other large scale infrastructure and factory operations. The following main emergency risks are taken into consideration as emergency risk assessment.

5.5.2 Fire

5.5.2.1 Forecast Item

The risk of fire, which can be impacted on the factory by its operations the vulnerability of the project site from fire hazards and if proper and adequate measures to prevent the disaster are not implemented, it could lead to loss of human lives and destruction of factory infrastructure and could mean the cease of factory operations.

5.5.2.2 Forecast Area

The area examined to forecast the impact was set in and around the proposed project Site.

5.5.2.3 Forecasted Period

The period examined to forecast the impact of fire hazard during operation stage was set throughout the factory operation period.

5.5.2.4 Forecast Method

The forecast of the risk for potential fire accidents are conducted by the following methods: To examine the risk for potential fire accidents in operation stage by considering the operation work plan and preventive measures of the proposed project.

5.5.2.5 Forecast Result

In the operation stage, there will be risk for potential fire accidents in the facilities such as Chemical Storage and some of the manufacturing process of the factory. Therefore adequate mitigation measures for the fire accidents were examined as a precondition to the proposed project as below:

- Regular training and exercise for the factory staff regarding the firefighting and other emergency response;
- Manufacturing area, working places, storage buildings and areas, chemical storage buildings, fire preventive measures, safe evacuation were designed

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and implemented in compliance with relevant rules and regulations for the fire emergencies. For example, sufficient emergency escape route, exists, fire hydrants, fire hose rules, fire extinguishers provide in certain quantity and distances are considered are considered in the design of the facilities and operations;

- A dedicated water supply system for fire-fighting provisions is set up independently from the supply for the factory production and domestic usage, with provision of water tank and firewater pumps in quantity in two.
- Fire extinguishers suitable for each fire type, fire hose reels are installed and strategically located in all parts of the factory; Main building, Chemical storage building, air compressor room, generator room, around industrial water treatment and near boiler.
- Emergency escape exits are adequately provided, exit signs prominently displayed and visible even during electrical power failure.
- Emergency lighting for safe evacuation in all working area such storage area, main production buildings and office.
- Emergency preparedness and response plan is established for an emergency evacuation procedure to any emergency situation and to remove all occupants away from hazards in the shortest time possible and include appointment of an ERT (Emergency Response Team) trained and competent to perform and execute their assign duties, as well as training, identifying roles and responsibilities and requirements of factory personnel and drills relating to emergency evacuation will be conducted periodically.

5.5.2.6 Evaluation

Based on the above findings in the current operation stage, considering arrangement for mitigation taken by the project proponent in the current operation stage. The fire hazard is evaluated to be low and insignificant for operations because project proponent will take the necessary measure to reduce probability and severity in and around the factory area.

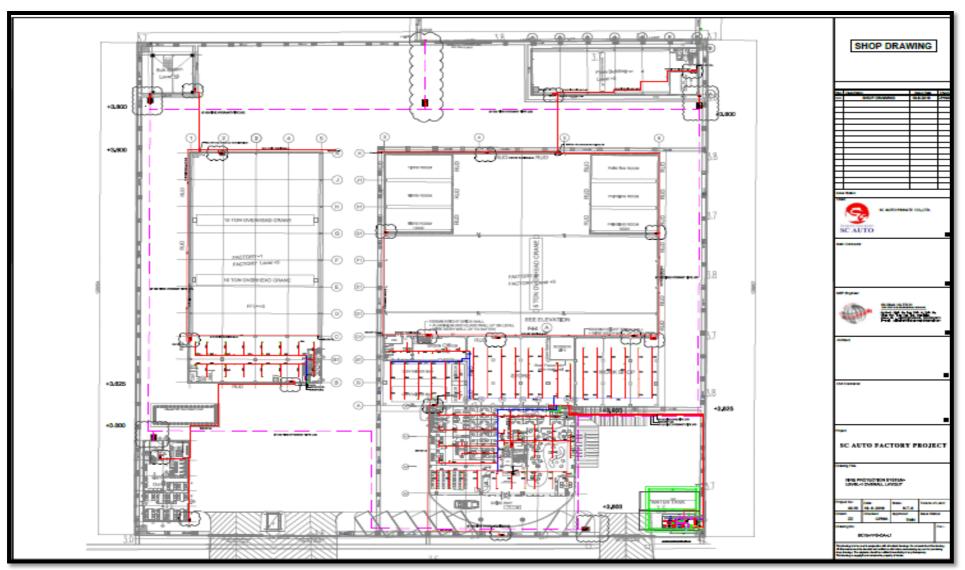
5.5.2.7 Firefighting System

Installed firefighting pump station, fire host wheel, extinguisher, sprinkler with using heat sensor and alarms.



Figure 5.7 Fire Fighting System

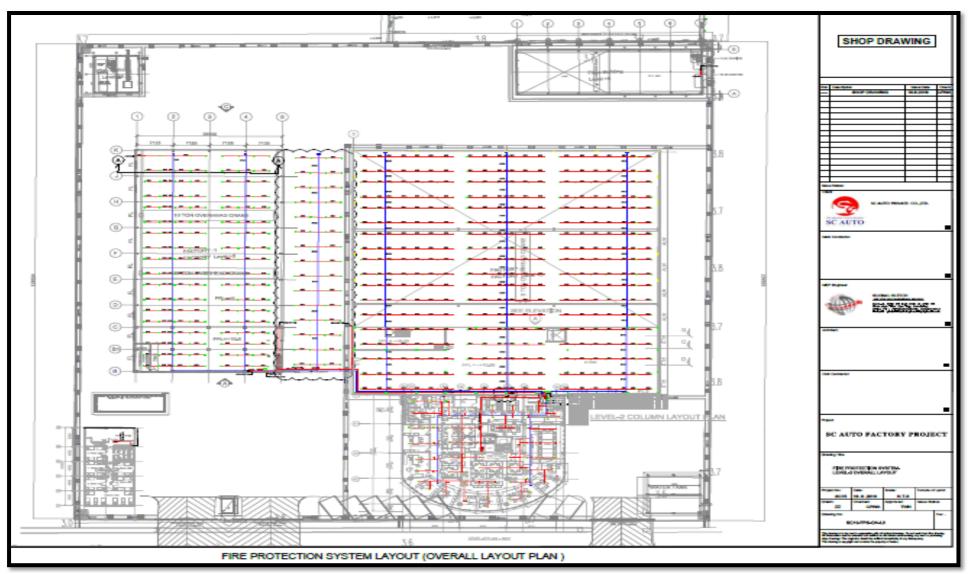
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Figure 5.8 First Floor Firefighting Plan

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Figure 5.9 Second Floor Firefighting Plan

5.5.3 Flood

5.5.3.1 Forecast Item

The risk of flooding, which can be triggered by heavy rain, cyclone, high tidal waves increase the vulnerability of the project site from flooding and if proper and adequate measures to prevent the disaster are not implemented, it could lead to loss of human lives and destruction of factory infrastructure and could mean the cease of factory operations.

5.5.3.2 Forecast Area

The area examined to forecast the impact of flooding was set in and around the proposed project Site.

5.5.3.4 Forecasted Period

The period examined to forecast the impact of flooding hazard during operation stage was set throughout the factory operation period.

5.5.3.5 Forecast Method

The forecast of the risk for potential flooding accidents are conducted by the following methods: To examine the risk for potential flood risk triggered by heavy rain, cyclone that could occur in and around the proposed project site.

5.5.3.6 Forecast Result

Monsoon rains and increased water levels in major rivers have caused seasonal floods in Myanmar, primarily affecting Magway, Sagaing, Bago and Ayeyarwady regions and Mon State. Mandalay Region, Chin, Kayin, Rakhine and Shan states, as well as the Union Territory, are also affected by floods but with smaller-scale or no displacements reported at this stage.

Rapid development and population growth, as well as increasing environmental degradation and the effects of climate change made Yangon more vulnerable to fire, earthquake and flood than other areas of the country.

Factory has proper rain water drainages connected to municipal drains, so that rainfall on the concrete pavement inside factory is drained and discharged out of the factory in an organized manner to avoid flooding and water-logging inside factory.

Emergency preparedness and response plan is established for an emergency procedure to any emergency situation and to remove all occupants away from hazards in the shortest time possible and include appointment of an ERT (Emergency Response Team) trained and competent to perform and execute their assign duties, as well as training, identifying roles and responsibilities and requirements of factory personnel and drills relating to emergency evacuation will be conducted periodically.

5.5.3.7 Evaluation

Based on the results of forecast and considering arrangement for mitigation taken the project proponent in the current operation stage. The flood hazard is evaluated to be low and insignificant for operations because project proponent will take the necessary flooding counter measures to control and minimize the risk for flood disaster in and around the factory area.

5.5.4 Earthquake

5.5.4.1 Forecast Item

The risk of earthquake, which can be impacted by high magnitude earthquake occurring in the project area may increase the vulnerability of the project site from the earthquake and if proper and adequate measures to prevent the disaster are not implemented, it could lead to loss of human lives and destruction of factory infrastructure and could mean the cease of factory operations.

5.5.4.2 Forecast Area

The area examined to forecast the impact of earthquake was set in and around the proposed project Site.

5.5.4.3 Forecasted Period

The period examined to forecast the impact of earthquake hazard during operation stage was set throughout the factory operation period.

5.5.4.4 Forecast Method

The forecast of risk for earthquake are conducted by the following methods:

- Consideration of the potential earthquake risk in general preparedness, mitigation and preventive measurement for earthquake risk reduction of the project proponent are focused and mainly based on the history of earthquake occurrence near the Yangon area.
- Confirmation of the appropriate precautionary countermeasures planned by the Project proponent.

5.5.4.5 Forecast Result

Yangon is located adjacent to a high probability area of Sagaing Fault that has potential risk of high magnitude earthquake happening in the future. However as the design, construction and features of the factory's building and its other buildings are implemented by the project proponent to be earthquake resistant, the impact of earthquake hazard in the factory area is considered insignificant.

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Emergency preparedness and response plan is established for an emergency procedure to any emergency situation and to remove all occupants away from hazards in the shortest time possible and include appointment of an ERT (Emergency Response Team) trained and competent to perform and execute their assign duties, as well as training, identifying roles and responsibilities and requirements of factory personnel and drills relating to emergency evacuation will be conducted periodically

5.5.4.6 Evaluation

Based on the results of forecast and considering arrangement for mitigation taken the project proponent in the current operation stage. The earthquake hazards are evaluated to be low and insignificant for operations because project proponent will take the necessary earthquake counter measures to control and minimize the risk for earthquake disaster in and around the factory area.

5.5.4.7 Response Plan

Emergencies can create a variety of hazards for workers in the impacted area. Preparing before an emergency incident plays a vital role in ensuring that employers and workers have the necessary equipment, know where to go, and know how to keep themselves safe when an emergency occurs. These Emergency Preparedness and Response pages provide information on how to prepare and train for emergencies and the hazards to be aware of when an emergency occurs.

6.0 INSTITUTIONAL REQUIREMENT AND ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

Implementation of the project will be managed by SC Auto (Myanmar). A Health, Safety and Environment (HSE) Coordinator is assigned for the project monitoring and coordinating purposes. HSE coordinator will be responsible for implementation and monitoring of the environmental management and monitoring plan as well as coordination with local authorities and the nearby communities. He/she shall work closely with the contractor during the construction, operation and abandonment phase and will be the first contact on the ground directly for SC Auto (Myanmar). He/she shall receive all complaints and grievances arising in the course of the implementation of the EMP

6.1 Environmental Management Team

No.	Role	Responsibility		
1.	Managing	Ensure operations are undertaken as per this EMP		
	Director	• Ensure the mitigation measures as detailed in this EMP are		
		actioned, as required		
2.	HSE Officer	• Ensure that the activities are undertaken as outlined in this EMP		
		• Ensure the monitoring requirements are met and the EMP is		
		implemented in the factor		
		 Ensure environmental incidents are reported 		
		 Ensure periodic environmental inspections are completed 		
3.	Administrative	• Ensure that plans for trainings programmes, drill are undertaken		
	Officer	as outlined in this EMP		
		• Ensure that the communication to authorities and stakeholders		
		for emergency cases are undertaken as outlined in this EMP		
4.	Production	• Ensure that the operations are undertaken as detailed in this		
	Supervisor	EMP		
		• Ensure that the management measures detailed in this EMP are		
		implemented in production sections		
5.	Maintenance	• Ensure that the maintenance activities are undertaken as		
	Supervisor	outlined in this EMP		
		Ensure that schedule of maintenance plans		
6.	Warehouse	• Ensure that solid waste management activities are undertaken as		
	Supervisor	outlined in this EMP		
7.	Purchase	• Provide sufficient resources to implement the management		
	Supervisor	measures in this EMP		

Table 6.1 Role and Responsibility

6.2 Environmental Management Plan

The environmental management plan (EMP) that was prepared for the proposed project was the basis for determining the anticipated impacts, monitoring requirements, and development of mitigation measures with respect to the following stages:

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- 1. Construction
- 2. Operation
- 3. Decommissioning

Detailed, site-specific mitigation measures and monitoring plans are developed and will be implemented during the project implementation phase. The Detailed EMP is as follows;

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Project / Activity Phase (Potential Environmental Impact)	Objectives	Mitigating & Enhancement Measures	Estimated Cost of Proposed Measures (USD)	Responsible Person / Unit			
Construction Phase							
Soil disturbance/erosion	To lessen soil disturbance and prevent soil erosion due to construction activities	 Control earthworks and compact loose soils Install drainage structure properly Landscaping on project completion Control and mange excavation activities Control activities during rainy conditions Provide soil erosion control and conservation structures/means where necessary To the greatest extent possible, phase site clearance so as to minimize the area of exposed soil at any given time Re-cover exposed soils with grass and other appropriate species as soon as possible. Temporarily bund exposed soil and redirect flows from heavy runoff areas that threaten to erode or result in substantial surface runoff to adjacent drain waters Monitor areas of exposed soil during periods of 	No extra cost	SC Auto and construction contractor			
Noise	To ensure cumulative noise impacts are acceptable	 heavy rainfall throughout the construction phase Construction activities that will generate disturbing sounds should be restricted to normal working hours. Workers operating equipment that generates noise should be equipped with noise protection gear. Workers operating equipment generating noise levels greater than 80 dBA continuously for 8 hours or more should use earmuffs. Workers experiencing prolonged noise levels of 70 – 80 dBA should wear 	No extra cost	Contractor			

Air Pollution (nuisance dust)	To minimize dust effectively and avoid complaint due to the air borne particulate matter release to the atmosphere	 earplugs. Spray water during the construction phase of excavated areas during dry conditions Control speed and operation of construction vehicles Prohibit idling of vehicles Ensure sound condition of construction machinery and equipment Workers on the site should be issued with dust 	No extra cost	Contractor
Material transportation	To reduce dust/noise/waste generation and avoid spillage during transportation	 masks during dry and windy conditions. All fine earth materials must be enclosed during transportation to the site to prevent spillage and dusting. Trucks used for that purpose should be fitted with tailgates that close properly and with tarpaulins to cover the materials. The cleanup of spilled earth and construction material on the main roads should be the responsibility of the Contractor and should be done in a timely manner (say within 2 hours) so as not to inconvenience or endanger other road users. These requirements should be included as clauses within the contracts made with relevant sub-contractors. The transportation of lubricants and fuel to the construction site should only be done in the appropriate vehicles and containers, i.e. fuel tankers and sealed drums. As far as possible, transport of construction 	No extra cost	Contractor
Material storage	To ensure proper storage of material and avoid accidental spillage	 materials should be exit the project site The stockpiling of construction materials should be properly controlled and managed. Fine grained materials (sand, marl, etc.) should be stockpiled away from surface drainage channels and features. 	No extra cost	Contractor

		 Low berms should be placed around the piles and/or tarpaulin used to cover open piles of stored materials to prevent them from being washed away during rainfall Safe storage areas should be identified and retaining structures put in place prior to the arrival and placement of material. Hazardous chemicals (e.g. fuels) should be properly stored in appropriate containers and these should be safely locked away. handling facilities 		
Sewage and litter management	To prevent soil/water contamination due to grey water discharge and overload or spillage of temporary septic tanks	 Install proper sewage treatment plant Proper solid waste receptacles and storage containers should be provided in sufficient numbers, particularly for the disposal of lunch boxes and drinking bottles, so as to prevent littering on the site Arrangements should be made for the regular collection of litter and for its disposal only at the dump site. 	No extra cost	Contractor
Construction waste disposal	To ensure adequate disposal options for all kinds of construction waste including glass, metal, wood, cement residues, plastic, paper based wastes, oil spills etc.	 Waste collection, segregation and disposal should be properly managed and contact to Mingaladon Township Municipality for final disposal. Special attention should be given to minimizing and reducing the quantities of solid waste produced during site preparation and construction. To reduce organic waste, softer vegetation may be composted onsite and used for soil amendment during landscaping. Reusable inorganic waste (e.g. excavated soil) should be stockpiled away from drainage features and used for in filling where necessary. Unusable construction waste, such as damaged 	No extra cost	Contractor

Accident/ Injury/ Health Hazard	To minimize potential accidents/injuries and disease	 pipes, formwork and other construction material, must be disposed of at Mingaladon Township Municipality dumpsite. Proper personal protective equipment i.e. safety shoes, helmet, goggles, and gloves shall be used at all times on site 	No extra cost	Contractor
	and disease	 Use barriers and guards as necessary to protect employees from physical hazards, Signage danger warning or CAUTION will be put at strategic places Development of occupational safety and health guidance plans Provide first aid kits and contact points in case of injury and accidents From a safety and health committee to coordinate safety and health issues at workplace 		
		• Provide regular safety awareness talks and trainings		
		Operation Phase		
Noise and vibration pollution	To ensure noise and vibration pollution effect on surrounding should be under	 Conduct a noise survey and mark out dedicated areas with signage where there are elevated noise levels and PPE is required. Enclose noisy machines to isolate people from the noise where practicable. 	Under EMP budget	HSE officer of SC Auto factory
	the threshold limit by emission guide line.	 Reduce vibration exposure times and provide PPE where people may be exposed to vibration. Limit scrap handling and transport during unsocial hours to reduce noise. 		
Waste water	To minimize affect local ecology as well as posing a hazard to drinking	 Minimize the consumption of water used in production processes and equipment cleaning. Consider upgrades to wastewater treatment facilities. Recycle wastewater where possible, e.g. certain 	Under EMP budget	HSE officer of SC Auto factory

Solid wastes	water supplies and contaminating land. To prevent ground contamination due to improper solid waste management.	 solvent wastes such as gun wash can be sent for recovery and reuse in another application where these facilities are available Ensure untreated wastewater does not discharge to watercourses through use of wastewater treatment facilities and monitoring of wastewater discharges Define waste management plan. Contact certified waste collector, DOWA for waste disposal Return packaging of hazardous and non-hazardous materials (wherever possible), such as empty drums, to supplier for reuse. Recycle packaging wherever possible. Develop and implement a waste management plan covering all aspects of waste treatment on site. Wherever possible, priority should be given to reduction of wastes generated, and recovery and re- 	Under approved EMP budget for waste management	HSE officer of SC Auto factory
		use of raw materials		
Chemical exposure	To ensure safe working condition for workers	 Occupational Health and Safety Provide personal protective equipment (PPE) that is fit for the task to prevent injury and maintain hygiene standards. Train staff in the correct selection, use and maintenance of PPE, and put in place measures to encourage/ mandate its use. Implement a program of assessment of routine monitoring of worker health. 	Under approved budget for HSE management plan for PPE	HSE officer of SC Auto factory
Noise and vibration	To ensure noise level should under the threshold limit with exposure limit	 Enclose noisy machines to isolate people from the noise where practicable. Reduce vibration exposure times and provide PPE where people may be exposed to vibration. Limit scrap handling and transport during unsocial 	Under approved budget for HSE management plan for PPE	HSE officer of SC Auto factory

		hours to reduce noise.		
Machinery	To meet HSE objective of no LTA(Lost time accident)	 Train staff in correct selection, use and maintenance of PPE. Train workers in correct use of machinery and safety devices. Avoid direct handling of sharp edged items and/or remove sharp edges by machining. Engineer out sharp edges and access to dangerous parts of machinery through a hierarchy of controls (permanently fixed physical barrier, interlocked physical barrier, physical barrier, presence sensing system). 	SC Auto Management should define HSE objective SC Auto Management should define Incentive for HSE bonus.	HSE officer of SC Auto factory
Manual handling and repetitive work	To meet HSE objective of no LTA(Lost time accident)	 Ensure that walkways are constructed of non-slip materials and route cables and pipe-work under walkways. 		HSE officer of SC Auto factory
Working Condition	To meet HSE objective of no LTA(Lost time accident) due to fatigue condition of overload	 Implement a program of routine monitoring of worker health. Implement a grievance/dispute resolution mechanism for workers. 		HSE officer of SC Auto factory

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		Decommissioning Phase		
Waste disposal due to dismantling activities	To minimize generation of scraps and other debris on sites	 Use of an integrated solid waste management system i.e. through a hierarchy of options: Wastes generated as a result of facility decommissioning activities will be characterized in compliance with standard waste management procedures. All buildings, machinery, equipment, structures and tools that will not be used for other purposes should be removed and recycled/ reused say in other projects Where recycling/reuse of the machinery, equipment, implements, structures, tools and other waste is not possible, the materials should be disposed to approved dumpsites To contact Mingaladon Township Municipality for final waste disposal. 	1,000	Contractor
Ground water pollution due to dismantling activities	To prevent potential pollution	 procedures for finding contaminated material during excavations will be established covering and damping of excavated materials appropriate storage of contaminated material if found. Ground contamination and storm water contamination will be limited on site by proper handling and storage of materials and equipment. 	2,000	SC Auto
Rehabilitation of project site	To ensure less vegetation disturbance, land deformation and restoration of site	 Implement an appropriate re-vegetation program to restore the site to its original status During the re-vegetation period, appropriate surface water run off controls will be taken to prevent surface erosion; Monitoring and inspection of the area for indications 	10,000	SC Auto

		 of erosion will be conducted and appropriate measures taken to correct any occurrences; Fencing and signs restricting access will be posted to minimize disturbance to newly-vegetated areas; Scoop out any contaminated soils and replace with uncontaminated soil from another source Comprehensive Landscaping. 		
Health and safety impacts	To avoid potential occupational hazards	 The safety of the workers should surpass as a priority of all other objectives in the decommissioning project Provide appropriate Personal Protective Equipment (PPE) as necessary. Staircases and other hazardous areas shall be suitably protected say using strong rails to avoid occurrence of incidences Provide emergency health care and sanitation to employees. Ensure sufficient emergency firefighting tools (fire extinguishers, hooks, buckets and water tanks) are standby at demolishing site 	1,000	Contractor
Socio-economic impacts	To prevent loss of income, quality of life and benefits such as medical, insurance cover etc	 Assist with re-employment and job seeking of the involved workforce. Compensate and suitably recommend the workers to help in seeking opportunities elsewhere. Offer advice and counseling on issues such as financial matters. Ensure assistance with re-employment and job seeking of the involved workforce. Make sure to compensate and suitably recommend the workers to help in seeking opportunities elsewhere. 	2,000	SC Auto

Offer advice and counseling on issues such a financial matters.	,	
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6.2.1 Health and Safety Management of Operation Phase for Workers

(1) Occupational Health and Safety Management

Occupational health and safety management program is implemented to promote the health conditions, physical conditions, mental conditions of the employees and to prevent from the risk of workplace hazard and incidents, acute sickness and chronic disease. There was not enough evidence to determine whether working in paint manufacturing facility increased cancer risk. However, some ingredients used in paint manufacturing are hazardous chemicals and these chemicals may pose a risk to acute and chronic health concerns if prolonged or repeated exposure without any precaution and prevention. Therefore, the following mitigation plan should be implemented to minimize the probable health impacts.

Table 6.3 Occupational Health and Safety Management Plan-Operation Phase

Control for Chemical Exposure

A wide variety of volatile solvents are used in paint manufacturing and which includes aliphatic and aromatic hydrocarbons, alcohols, ketones and so forth. The most exposure to volatile solvents can occur during mixing, blending and thinning, filling and cleaning processes. The probable chemical exposure can be by means of ingestion, inhalation and skin contact. The potential of chemical exposure can be reduced by implementing the followings.

- Make sure the employees wear necessary PPE for precaution such as safety glasses, gloves, safety shoes and when necessary, respirators should be used. Provided PPE list are as shown in the Appendix (14).
- Follow confined space procedures for vessel cleaning.
- Install emergency shower and eye washers near the production area, chemicals storage area. etc.
- Provide good ventilation in production area.

Control for emission of VOC

- Use enclosures or lids for mixing tanks.
- Provide local exhaust ventilation system in operation area.
- Hazardous materials shall be provisioned in a separate room by providing good ventilation devices.
- Keep the solvent chemicals in low temperature to reduce vaporization of it.
- Install air pollution control system for removal of VOC.
- Plan to reduce the solvent usage.
- Make sure employees wear masks.

Control for Workplace Emission of Dust and Particulate Matter

- Install dust collector around process area.
- Provide good local exhaust ventilation system.
- Maintain proper housekeeping in workplace.
- Make sure employees who work in the production area must wear masks.

Control for materials handling and accidents

Manual handling of boxes, containers and drums of raw materials and finished paint products may pose a high risk of physical injuries due to improper lifting, slips, falls, dropping containers and so on. The risk of physical hazard can be mitigated by means of followings.

• Use materials handling aids such as rollers, jacks and platform and mechanical

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- equipment such as conveyors, hoists and fork-lift trucks.
- Apply non-skid paint to the floor.
- Any slippery area should be signposted.
- Make sure all employees wear necessary PPE such as safety shoes, head gear, gloves and safety glasses.
- Provide trainings for safe materials handling procedures and safe working procedures to employees.

Control for Noise and Vibration

Production and process area is usually noisy and as a result noise is a workplace hazard for operators and the risk can be mitigated by implementing following plan.

- Provide ear protection equipment to workers who work in noisy area.
- Do regular maintenance of machineries.
- Select low noise equipment and tools for purchasing where feasible.
- Arrange to rotate the working shifts for employees who work in noisy area to reduce the exposure time to noise.
- Do hearing test for workers annually.

Working Conditions

For providing safe and healthy working environment to employees, SC Auto shall follow the following recommendations.

- Provision of hygienic canteen, kitchen and eating area.
- Provide for safe and sufficient drinking water.
- Provision of adequate sanitary toilets.
- Maintain greenery area for fresh and cool working environment.
- Provide good ventilation system in working area for receiving fresh air and dilution pollution.
- Provide good health care system such as annual medical checkup.
- Provide necessary trainings with their related jobs for safe and effective production.

Plan for Contagious Disease Control

- Provide specific awareness training during seasonal flu, or other pandemic such as Covid-19 outbreak for safe social distancing, hand washing, wearing masks and avoiding crowded place, etc.
- Share knowledge about how transmitting the disease such as tuberculosis, hepatitis, HIV and seasonal flu.
- Educate the employees regarding with the precaution measures to prevent from getting the contagious disease.
- Do regular cleaning of toilets and canteen area.
- Provide adequate number of toilets for all employees.
- Cover waste bins to avoid breeding of flies and other insects.
- Provide wash basin with soap.
- Make sure there will be no water ponding within premise to avoid breeding of mosquitos.

Medical -precautionary measures

- Pre-employment medical examination must be done for all employees.
- Annual medical examinations for Pulmonary Function Test, Vision Test, Audiometry, Hematology profiles, Liver Function Test and Renal Function Tests are also recommended.

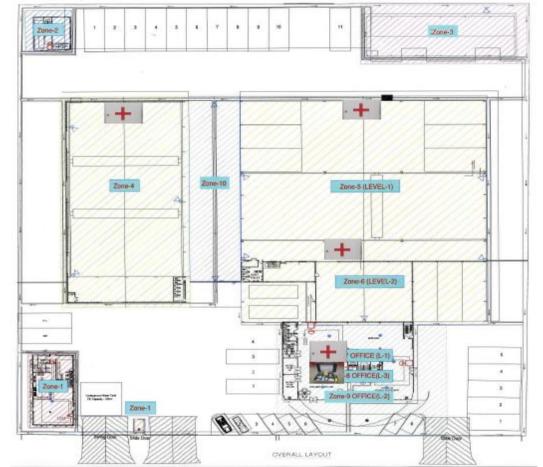
Medical records of the employees are properly maintained and updated from time to time.

 Provide the trainings for first aid procedures, safe working procedures, safe use of equipment, good personnel hygiene practice and industrial hygiene to the

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employees.

- Provision of adequate first aid kit. Supply PPE list are as shown in the Appendix (14) and first aid kit supply location is as shown in the following Figure
- Medical personnel should be available on-site or by phone for advice and consultation.
- Emergency phone numbers should be posted near the telephones.
- Immediate, temporary treatment of First Aid Procedure must be prepared. First aid procedure is as shown in the Appendix (14).



Emergency and First-aid Procedures

First aid is immediate, temporary treatment given in the event of accident or illness.

- Check first whether the scene is safe to enter.
- Find out what happened.
- Take first aid kit, use appropriate PPE and wear gloves.
- Interview the injured person or bystander or reporter if possible.
- Conduct a head to toe check first to decide the overall condition.
- Identify the nature of the injury or illness as far as possible.
- Arrange for emergency services to attend.
- Manage the casualty promptly in appropriate ways.
- Wait until health care professional arriving to hand over.
- For treating burning injury, determine the burn type and severity, disinfectant and cover with thin and loose cloth to prevent from infection.
- For treating of cut and bruises, wash with water, apply pressure on affected area, use disinfectant and cover with damage.
- For treating of sprains, use ice pack to reduce swollen.

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- For eye incident such as entering debris or contaminants, do eye wash for a few minutes and go to hospital if required for medical assistance. Do not apply any eye drop if it is not prescribed by the physician.
- For treating of fractures, immobilize the area and apply cool pack. Elevate the injury part.
- Perform CSR if someone is stopped breathing.
- Make emergency call to 911.
- Record the information about the incident and report to EHS manager.

-name

- -type of injury
- -type of incident
- -date and time of incident

-method of treatment given by first aid team





Awareness

To increase the safety awareness of the employees _

- Displaying safety caution billboards and safety posters mentioning Do's & Don'ts at various prominent location _at outdoor area, at canteen, at workplace, at aisles and at car-park.
- The Safety Notice Boards displayed should specify
 - Safety Advice
 - Project Safety Statistics
 - ➢ Topical HSE information
 - Safety Committee Meeting Minutes
 - Emergency notifications
 - Muster Point locations
- Displaying health awareness posters as well during flu season or pandemic such as corona virus outbreak (for safe social distancing, wearing masks, washing hands,

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etc.)

- Arranging housekeeping competition.
- Holding safety slogan competition.

Training

To refresh and upgrade the knowledge of the safety issues, training program shall be organized at all levels of employees for safety and accident prevention. The following training program will be conducted periodically in a planned manner.

- Safe working procedures and practice.
- Proper use of tools and tackles.
- Handling of hazardous chemicals training.
- Health awareness talk.
- Personnel hygiene practice.
- General safety rules training.



Responsible Team

EMT team leader, members and all employees.

Responsibilities

- To prepare and implement EMP for occupational health and safety.
 - To arrange the trainings.
 - General safety training
 - Safe handling procedures for chemical
 - > Health awareness training
- To make sure all employees follow the plan.
- To keep the records and make sure the records to be documented.
- To review the environmental quality monitoring parameters.
- To do modification of EMP if the environmental quality monitoring parameters are not within acceptable value.

6.3 Environmental Monitoring Plan

The local authority should be responsible for monitoring and management of all indirect impacts occurring in the project area. An environment management team shall be created to manage all environmental issues during operation phase.

Environmental Parameters	Monitoring Item	Location	Frequency	Responsibilities
	Construction Pha	se/ Decommiss	ioning Phase	
Air quality	• PM ₁₀ , PM _{2.5} , Ozone, VOC, CO, CO ₂ , NO ₂ , SO ₂	Construction / Closing site	Once during construction period	Construction Contractor

Table 6.4 Environmental Monitoring Plan

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			r	1
	 Recorded the machineries maintenance Recorded dust emission activities Recorded traffic 	Construction / Closing site	Monthly	Construction supervisor
Soil quality	 Chemical and toxic material emission/ leakage status from storage area Other possible leakage of chemicals due to the vehicular movement and bitumen mixing 	Construction/ Closing site	Monthly	Construction Contractor
Water quality	Checking temporary septic tank and disposed system, temporary drain	Construction/ Closing site	Monthly	Construction Contractor
Water Use	Daily amount of water use	Construction/ Closing site	Daily Observation	Construction Contractor
Noise	• Intensity measurement	Construction/ Closing site	Monthly	Construction Contractor
Waste Disposal	 Recorded disposal amount of solid wastes and sewage of the workers Checking the waste storage area 	Areas around workers quarters	Daily Observation	Construction Contractor
	 Recorded disposal amount of construction wastes, compliance with the disposal requirements Separate hazardous and No-hazardous Checking the waste storage 	Construction/ Closing site	Weekly	Construction Contractor

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	area			
Employment	Number of people employed	Construction/ Closing site	Monthly	Construction Contractor
Other Social Considerations	CSR activities record	Monitoring team	Monthly	Construction Contractor
Occupational Health and Safety	Safety activities, Record of accident and OHS training and activities, Record of worker argument and conflict	Workers	Monthly	Safety Supervisor
Community Health and Safety	Record of accident and OHS training and activities, Recorded of training for driver and worker	Local residents	Upon conditions	Safety Supervisor
Emergency risk	Accident record, safety, training	Construction/ Closing site	Monthly	Safety Supervisor
Operation Phase		1	1	1
Air Quality	PM ₁₀ , PM _{2.5} , Ozone,, VOC, CO, CO ₂ , NO ₂ , SO ₂	Ambient air	Annual	Factory Manager and HSE officer
	Particulate matters, VOC	Workplaces such as painting area, w are house, car parts assembling area	Annual	Factory Manager and HSE officer
	Generator exhaust gas (CO, CO2, NO2, SO2)	Stack	Annual	Factory Manager and HSE officer
Water Quality	• Wastewater (pH, oil & grease, suspended solid, BOD, COD, color and Temperature, etc	Municipal drain and factory drain outlet	Bi-annual	Factory Manager and HSE officer
	• Ground water (pH, Arsenic, Cl ⁻)	Water reservoir	Bi-annual	Factory Manager and HSE officer
Waste Disposal	Recorded disposal amount	Plant premises	Monthly	Factory Manager and HSE officer

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			-	
Soil Contamination	 of plastic, drum, paper box, used wedding rock Check collection system Check storage Separation of waste type (Hazardous & No-hazardous) Oil leakage, Spill of solvent, Paint Measuring heavy metal 	Plant premises, paint storage area, fuel storage area, generator room,	Annual	Factory Manager and HSE officer
Noise and Vibration	Noise & Vibration level	 Plant premises workplace s area such as painting area, w are house, car parts assemblin g area 	Annually and upon complaint	Factory Manager and HSE officer
Odor	Inspection of ventilation condition	Factory and storage buildings	Monthly	Factory Manager and HSE officer
Hazardous and Chemical Substance	 Check handling and using of paint, reinforced fiber Check storage area Check disposal system 	Factory and storage buildings	Monthly	Factory Manager and HSE officer
Occupational Health and Safety	 Record of accident and record of occupation/ safety training, Each employee medical checkup record. Checking PPE and Provide 	Plant premises	Bi-annual	HSE officer

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	adequate PPEProvide OHS training			
Other Social Considerations	Check and Record CSR plan and job opportunities	Monitoring team	Annual	HR Manger
Emergency Risks	 Record of emergency case of accident and its response plan Checking Firefighting equipment Provide fire drill and training 	Plant premise	Annual	HSE officer
Transboundary or Global issues	N/A	-	-	-

6.4 Environmental Monitoring Cost Estimate

There are three different phases in developing and implementing the EMP for this Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services.

- Organization of the Environmental Management Team
- Environmental Measures during the Operation Phase
- Long-Term Environmental Measures during the life of the project.

The following table lists the various environmental measures important for each project phase, the agencies responsible for and executing each measure, the duration of the activity, initially budgeted unit costs and total costs. This table is not definitive and should be treated as preliminary and representative. If estimated budget for environmental monitoring is not enough, SC Auto (Myanmar) Co., Ltd. will use till enough. And SC Auto will arrange the another bank account for environmental conservation.

No	Environmental Measures	Responsible Agency	Executing Agency	Cost Estimate LS or per unit (Kyats)	Total Cost per year (Kyats)
Org	Organization of the Environmental Management Team				
1	Appointment of EM & Constitution of EMT	SC Auto		Lump sum	250,000
2	Create & capacity building of EMT	SC Auto	HSE consultants	Lump sum	450,000

Table 6.5 Estimated Cost of Basic Environmental Monitoring	
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				Sub-total	700,000
Me	asures During Operation Pha	ase			
1	Provide operating budget for EMT	SC Auto	EMT	100,000/month	1,200,000
2	Water quality monitoring Number of locations: 2 Measurements per year:2 Total Quantity of units = 2 x 2 = 4	SC Auto / EMT	Laboratory	80,000	320,000
3	Air quality monitoring Number of locations: 4 Measurements per year: 1 Total Quantity of units = 4 x = 1	SC Auto / EMT	Third Party	500,000	2,000,000
4	Noise monitoring Number of locations: 4 Measurements per year: 1 Total Quantity of units = $4x \ 1 = 4$	SC Auto / EMT	Third Party	200,000	800,000
5	Soil monitoring Number of location:1 Measurements per year:1	SC Auto / EMT	Laboratory	100,000	100,000
			•	Sub-total	4,420,000
			Total = Sub-	total + Sub-total	5,120,000

EM = Environmental Manager

EMT = Environmental Management Team

6.5 Reporting

An environmental management plan will usually require reporting arrangements. Reporting arrangements assist with effective implementation and with external reporting. External reports may include reports on environmental incidences to the regulator, reports to stakeholders, reports to inform reviews of the plan and reports to meet the reporting requirements of the conditions of approval.

The description of reporting requirements should include:

- a list of required reports including where appropriate monitoring, environmental incidents, --non-compliance, corrective action and auditing
- a description of the standard report content
- the schedule or triggers for preparing a report
- who the report is provided to
- document control procedures

Reporting commitments should also be consistent with any reporting to the Department required by the conditions of approval.

Annual reporting on the implementation of mitigation measure and on monitoring activities in operation of manufacturing process is essential. Reporting is the responsibility of

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Company Management. Report on environmental monitoring and implementation of EMP will be prepared annually.

Major Environmental Component	Key indicator	Performance	Data Source
Air quality	Dust, noise,	Level never	Monitoring by
	vibration,	exceed ECD guide	certified third party
		lines	
Ground water quality	pH, Fe, Hardness,	Government	Monitoring by
	Cl	environmental	certified third party
		standards and	
		criteria met	
Wastewater quality	BOD, COD,	Government	Monitoring by
	TDS, TSS	environmental	certified third party
		standards and	
		criteria met	
Soil quality	Heavy Metal	Government	Monitoring by
		environmental	certified third party
		standards and	
		criteria met	

Table 6.6 Performance Monitoring Indicators

6.6 Corporate Social Responsibilities (CSR)

SC Auto (Myanmar) Co., Ltd will undertake that 1 % of net profit earned from our business will be contributed towards CSR in the Republic of the Union of Myanmar.

The CSR fund will be used for:

- 50% in environmental conservation activities,
- 10% in social activities of the nearby wards,
- 15% in educational development program,
- 10% in donation to welfare states, and
- 15% in donation to orphanage and religious places.

Currently, the project proponent has used CSR budger for paving of roads, digging of drainage ditches, repairing road and planting of trees for green environment.



Figure 6.1 Activities Records

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7.0 CAPACITY DEVELOPMENT AND TRAINING

To improve competencies of employees, specific operations are conducted. For emergency preparedness, all employees actively participated in Fire drill, First AID course and Health and safety measure.

7.1 Training Employees about Chemical Hazards

Before they start their jobs or are exposed to new hazardous chemicals, employees must attend a hazard communication training that covers the following topics:

- An overview of the requirements in OSHA's Hazard Communication Standard.
- Hazardous chemicals present in their workplace.
- Any operations in their work area where hazardous chemicals are used.
- The location of the written hazard communication plan and where it may be reviewed.
- How to understand and use the information on labels and in Safety Data Sheets.
- Physical and health hazards of the chemicals in their work areas.
- Methods used to detect the presence or release of hazardous chemicals in the work area.
- Steps we have taken to prevent or reduce exposure to these chemicals.
- How employees can protect themselves from exposure to these hazardous chemicals through use of engineering controls/work practices and personal protective equipment.
- An explanation of any special labeling present in the workplace.
 - What are pictorgrams?
 - What are the signal words?
 - What are the hazard statements?
 - What are the precautionary statements?
- Emergency procedures to follow if an employee is exposed to these chemicals.

Safety Manager is responsible for managing the training program) is responsible to ensure that employees receive this training. After attending the training, employees will sign a form verifying that they understand the above topics and how the topics are related to our hazard communication plan.

Prior to introducing a new chemical hazard into any department, each employee in that department will be given information and training as outlined above for the new chemical hazard.

7.2 Social Security

Social security is "any government system that provides monetary assistance to people with an inadequate or no income."Everyone, as a member of society, has the right to social security and is entitled to realization, through national effort and international cooperation and in accordance with the organization and resources of each State, of the economic, social and cultural rights indispensable for his dignity and the free development of his personality. SC Auto Myanar Company need to engage government social program.

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8.0 PUBLIC CONSULTATION AND INFORMATION DISCLOSURE

SC Auto (Myanmar) Co., Ltd. will implement manufacturing, assembling and sales of buses/coaches, repair and maintenance services at No 188/189, 10th Road, Yangon Industrial Zone, Mingalardon Township, Yangon Region, the Republic of the Union of Myanmar, on the area of 4 acres (16,187.44 square meter). Green Myanmar Environmental Services Co., Ltd has been responsible for the assessment of environmental and social impact for the project. As part of this procedure, public participation involved meetings with nearest local residents.

8.1 Consultation with Nearest Local Residents

There are two ways of discussion, one way is participants can involve themselves in public consultation meeting and another way is by writing suggestions on distributed suggestion form.

Meeting attendees were encouraged to ask questions and give comments during and after the presentation. Comment forms were available at each meeting for attendees to write comments at the time of the meeting.

On June 18th 2018 at Supervise and Administrative office of ZayKabar Company Limited, Thingangyun Gyi village group, Mingalardone Industrial Park, Mingalardone Township, Yangon Region the public meeting for disseminating project information to general public including stakeholder and requesting (22) suggestions letter on the project was carried out (23) participants from local community attended the public meeting and participated in open discussion. Attendee lists were shown to Appendix (9). Their comments and suggestions were attached as Appendix (10).

The main points of discussion, questions and answers were mentioned in the following table.

No	Participants	Suggestions and Discussions
1	U Myint Maung (Supervise and Administra - tive officer, ZayKabar Company Limited, Thingan - gyunGyi village group, Mingalardone Industrial Park, Mingalardone Township)	 I advise to take noise control due to outcome from the assembling, repair and maintenance services Not to polluting to the environment by waste water from the workplace
2	Chaw Su Yin	 Reek from the drain Ensure to keep drainage system Lane shoulder are dirty when it is so raining
3	Win Linn Tun	 It is need to take Air ventilation system Automotive paint can be disperse if it was sprayed to the car
4	Than Myo Win	 Wastewater dispose systematically The person who should be inspect to the factory from GMES Co., Ltd., bi-monthly or quarterly

Table 8.1 Excerpts of Suggestion Letters from Public Consultation Meeting

		• Employer should be provide PPE to the workers
5	U Zaw Htet (Hundred House	To prevent Air and water pollution
	-hold Administrative Officer)	To provent the und water pollution
6	Yin Yin Khaing	• To provide PPE for the workers
7	Tin Tun Win	• It is need to take drainage systematically
8	Phyo Wai Aung	• Ensure to keep drainage system for the
		surrounding of the factory
9	Win Ko	• To conserve Air, Water and Soil
		• To keep environment for healthy and happy
10	Than Toe Aung	• Ensure to keep not to effect to the workers
		• To conserve and prevent to the environment
		Not to pollute for the environment
11	Mg Hein Soe Tun	• It has a little effluent by the factory
		• Ensure to keep drainage system
		• Now, I have no suggestion to the factory because
		the factory is not operating.
12	Soe Lin	• Automotive paint can be disperse if it was
10	DI V	sprayed to the car
13	Phyo Kyaw	• Ensure to keep drainage system for the
1.4	Von Linn Aun 2	surrounding of the factory
14	Yan Linn Aung	• I advise to take Air, water and soil quality of the
		factory by the monitoring team. Air and noise pollution is very important
		 To provide PPE for the workers
15	U Hlaing Min Tun	 I advise to take for flooding and damaging of the
10		road by Industrial Zone Management Committee
16	Zin Min Latt	To keep workers
17	Nay Lin Aung	PPE for workers (employees)
		 Medical insurance for employees
18	Than Tun Aung	Occupation health and safety
19	U Naing Win	• To provide allowances, benefits and Health for
		workers
		• To held suggestion meeting
		• To take festivities for healthy and happy of
		workers
20	Aung Myo Kyaw	• Automotive paint can be dispersed if it was
		sprayed to the car
		Ensure to keep drainage system
21	Hein Thet Aung	• To keep water pollution of the surrounding of the
		factory
22	Khin Maung Than	No comment



Figure 8.1 Recorded Photos taken from Public Consultation Meeting

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8.2 **Response for Comments and Suggestions**

Green Myanmar Environmental Services (GMES) Co., Ltd requested client, SC Auto (Myanmar) Co., Ltd to commitments on the suggestions of public consultation meeting and employee discussion program by email at 20.8.2018. The client replied at 23.8.2018 by email. The GMES requesting letter and the proponent's commitment letters are attached as Appendix (11) and (12) respectively.

We, SC Auto (Myanmar) Co., Ltd. will disclose the information of the factory throough local authorities in due course. The suggestion box, email and contact is also provided in the factory. Job vacancies are advertised in front of factory on white board. If there is any public complaint concern the project, public can send complaint letters to administration department and directly contact to responsible persons from SC Auto (Myanmar) Co., Ltd. Once get complaint letters or information, the responsible persons immediately investigate with related case and give a solution as fast as possible. The complaint response team is as shown in the following table.

Sr. No.	Member Name	Name of Affiliated Department/ Title
1	Ko Wai Phyo Aung	Admin Manager
2	Daw Thiri Kyaw	HR Manager
3	Daw Hsu Zaw Myint	General Affair Leader
4	Ko Lin Htet Oo	Security Team Supervisor
5	Ko Wai Phyo Aung	Discipline Management

Table 8.2 Complaint Response Team

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9.0 FINDINGS, RECOMMENDATIONS AND CONCLUSION

9.1 Findings and Recommendations

Beside significant beneficial impacts, and despite the use of a modern, clean technology, the project may have minor negative effects on the environment. But the design, approach and implementation are to be intended to minimize such negative effects as much as possible.

The growth of automobile use and the increasing resistance to road building have made our highway systems both congested and obsolete. Authorities concerned from Transport Sectors have to work together with relevant department to ease the situation.

For construction phase, all non-significant impacts recorded are minor or no significant environmental impacts such as dust particles dispersion, noise, waste generation, water pollution and potential health and safety impacts on employees such as accidents. All these impacts are minimal, short term, limited to the site and controllable.

The following recommendations have been made for efficient and effective implementation of environmental conservation, ecosystem management, health & safety, social responsibilities measures through the lifespan of the proposed project:

- Follow the comments and suggestions made by ECD after reviewing this IEE report
- Once EMP is approved by concerned authorities, strict implementation is essential
- For full and proper implementation of EMP, well understanding and supports by proponent and its administrative authority is deem necessity
- Fully implement Corporate Social Responsibility (CSR) Plan as an ethical business obligation, so as to be regarded as good neighbor/investor in the neighborhood
- Daily, monthly and annual action plan shall be formulated based on EMP and fully practiced
- Environmental Management Plan in IEE reports mainly deals through awareness campaigns, provision of safety measures and sanitation such as construction of pit toilets, provision of first aid kit, training. Cost required for implementation of Environmental Management Plan and mitigation measures in this project is also mentioned in the IEE report.

9.2 Conclusion

There will be positive impacts as the proposed project will generate local employment opportunity to enhance their capabilities and work skills. As a result, their socio-economic conditions will be improved.

Therefore, project section of SC Auto Myanmar's Manufacturing, Assembling and Sales of buses/coaches, repair and maintenance services meets regional development.

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"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

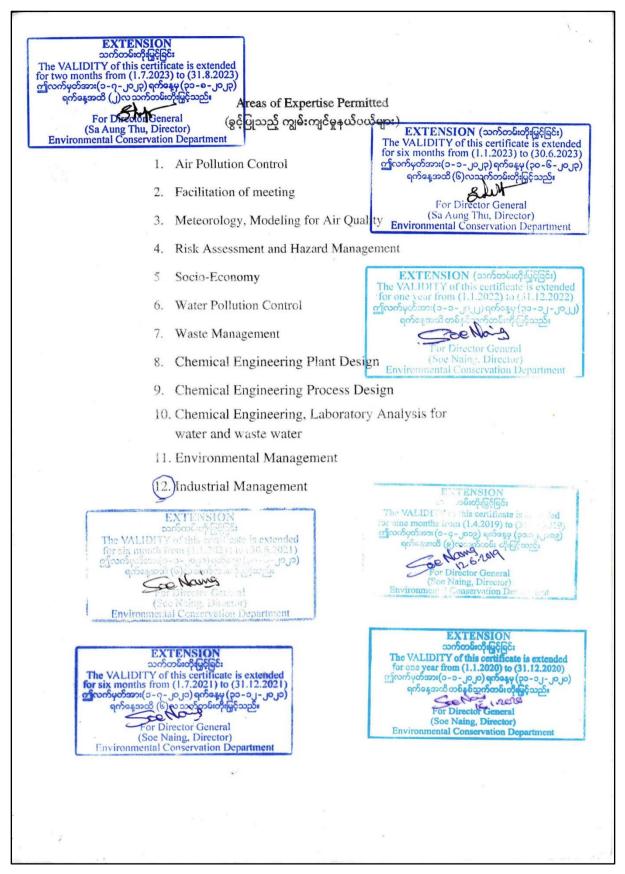
SC Auto (Myanmar) Co., Ltd.

APPENDIX (1): Certificate for Transitional Consultant Registration of Organization

REPUBLIC OF THE UNION OF MYANMAR Ministry of Natural Resources and Environmental Conservation CERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) anne Date No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the organization under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၆၁၆/၂၀၁၅ အရ သယ်ဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် ဤအထောက်အထားလက်မှတ်ကို အဖွဲ့အစည်းအား ထုတ်ပေးလိုက်သည်။) Green Myanmar Environmental Services Co., Name of Organization (a) (အဖွဲ့အစည်းအမည်) Ltd. Name of the representative in the Engr. U Sein Thaung Oo (b) organization (အဖွဲ့အစည်းကိုယ်စားလှယ်၏ အမည်) Citizenship of the representative in the Myanmar (c) organization (အဖွဲ့အစည်းကိုယ်စားလှယ်၏ နိုင်ငံသား) Identity Card /Passport Numberof the 12/ Ma Ya Ka (N) 082871 (d) representative person in the organization (အဖွဲ့အစည်းကိုယ်စားလှယ်၏ မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ် အမှတ်) 115, Kanaung Min Thargyi Road, Hlaing Thar Address of organization (e) Yar Industrial City, Zone (1), Hlaing Thar Yar (ဆက်သွယ်ရန်လိပ်စာ) Township, Yangon. gmescompany@gmail.com, 09 5122448 Organization Type of Consultancy (f) (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) (g) Duration of validity 31 March 2018 (သက်တမ်းကုန်ဆုံးရက်) **Director General** Environmental Conservation Department Ministry of Natural Resources and Environmental Conservation

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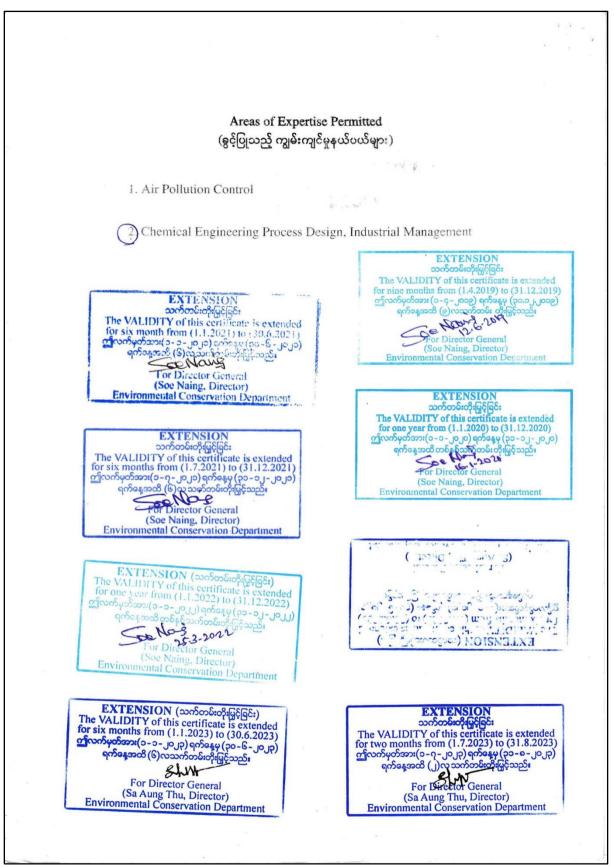
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APPENDIX (2): Certificate for Transitional Consultant Registration of Personal

REPUBLIC OF THE UNION OF MYANMAR **Ginistry** of Natural Resources and Environmental Conservation ERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) 0023 Date No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ စြာ၁၆/၂၀၁၅ အရ ဤအထောက်အထားလက်မှတ်ကို သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် သယံဓာတနှင့် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant Engr. U Sein Thaung Oo (a) (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship (b) Myanmar (နိုင်ငံသား) Identity Card / Passport Number 12/ Ma Ya Ka (N) 082871 (c) (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ်အမှတ်) (d) Address No. 17/D, Aung Theikdi Yeik Thar, Mayangone (ဆက်သွယ်ရန်လိပ်စာ) Township, Yangon. gmescompany@gmail.com, seinthaungoo@gmail.com 09 5122448 Organization Green Myanmar Environmental Services Co., Ltd. (e) (အဖွဲ့အစည်း) Type of Consultancy Person (f) (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) 31 March 2018 Duration of validity (g) (သက်တမ်းကုန်ဆုံးရက်) VALID **Director General Environmental Conservation Department** Ministry of Natural Resources and Environmental Conservation 215

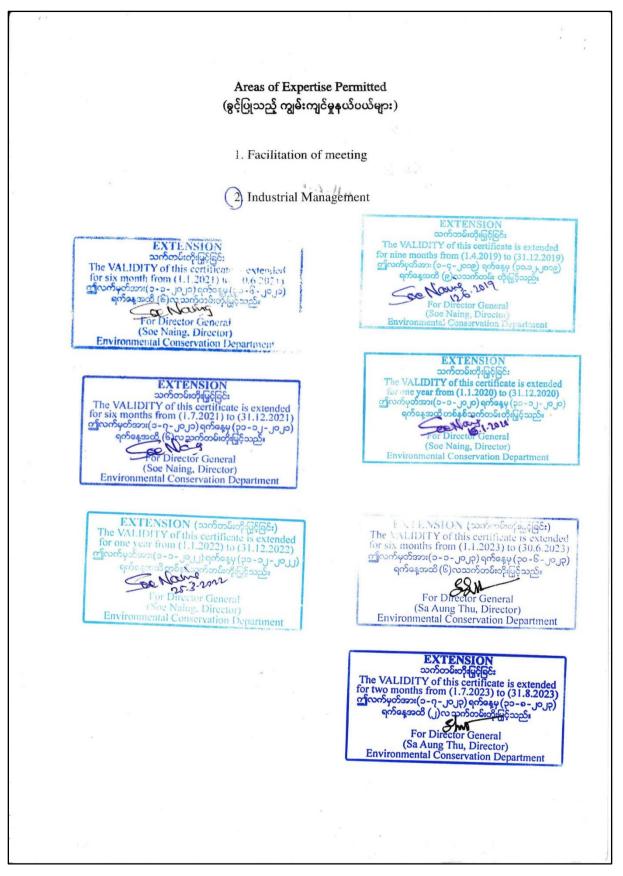
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006400 **REPUBLIC OF THE UNION OF MYANMAR** Ministry of Natural Resources and Environmental Conservation ERVIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) 0019 1111 2017 Date No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ စြံ၁၆/၂၀၁၅ အရ ဤအထောက်အထားလက်မတ်ကိ သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် သယံဓာတနှင် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant Engr. U Kyaw Soe Win (a) (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship Myanmar (b) (နိုင်ငံသား) Identity Card / Passport Number 12/ Ou Ka Ta (Naing) 038453 (c) (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ် အမှတ်) No. 155, Kanaung Min Thargyi Road, maing mai Address (d) Yar Industrial City, Zone(1), Hlaing Thar Yar (ဆက်သွယ်ရန်လိပ်စာ) Township, Yangon gmescompany@gmail.com ksw1963@gmail.com, 09 5081451 Organization Green Myanmar Environmental Services Company (e) (အဖွဲ့အစည်း) Limited Type of Consultancy Person (f) (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) Duration of validity 31 March 2018 (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSIO n (1.4.2018) to (31.3.2010 14 **Director General** Environmental Conservation Department Ministry of Natural Resources and Environmental Conservation

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REPUBLIC OF THE UNION OF MYANMAR Ministry of Natural Resources and Environmental Conservation CERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) +0021 Date 11 11 707 No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၆၀-၁၅ အရ ဤအထောက်အထားလက်မှတ်ကို သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် သယံဓာတနှင့် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant (a) Engr. Daw Khin Swe Aye (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship Myanmar (b) (နိုင်ငံသား) Identity Card / Passport Number 12/Sa Kha Na (N) 017708 (c) (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ် အမှတ်) Address 14 B, Wai Lu Wun Main Street, Sanchaung, (d) (ဆက်သွယ်ရန်လိပ်စာ) Yangon. khinsweaye.daw@gmail.com, 09 5015475 Organization Green Myanmar Environmental Services Co., Ltd. (e) (အဖွဲ့အစည်း) Type of Consultancy (f) Person (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) 31 March 2018 Duration of validity (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSIO to (31 3 2010 **Director General Environmental Conservation Department** Ministry of Natural Resources and Environmental Conservation

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Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ဝယ်များ) 1. Air Pollution Control 2. Waste Management EXTENSION သင်္ဘတစ်းဝန်းဖြင့်ခြင်း The VALIDITY of this certificate is extended for nine months from (1.4.2019) to (31.12.2019) EXTENSION EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for six month from (1.1.2021) to (30.6.2021) ဤလက်မှတ်အား(၁-၁-၂၀၂၁) ရက်နေ့မှ (၃၀-၆-၂၀၂၁) ရက်နေ့အထိ (၆)ရာ သက်တမ်းတိုးဖြင့်သည်။ မက်နေ့အထိ (၆)ရာ သက်တမ်းတိုးဖြင့်သည်။ မက် Poirector General (Soe Name, Director) က်အား (၁-၄-၂၀၁၉) ရက်နေ့မှ (၃၀.၁၂.၂၀ က်နေ့အထိ (၉)လူသတ်တမ်း တိုးမြှင့်သည်။ For Director General (Soe Naing, Director) Environ atal Co servation I (See Naing, Director) Environmental Conservation Department EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ဤလက်မှတ်အား(၁-၁-၂၀၂၀) ရက်နေ့မှ (၃၁-၁၂-၂၀၂၀) ရက်နေ့အထိ တစ်နှစ်သက်တမ်းတိုးဖြင့်သည်။ For Director General (See Naine, Director) EXTENSION ລວດວິດວິເຊີເຜີຍິດອີ: The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ຫຼັດແກ້ຍຸດວິສາກ:(ລ-ດ-ງດງວ) ຄຸກວິຣຣູຍຸ (ລວ-ວງ-ງດງວ) ຄຸດວິຣຣູອາດີ (ຣັ)ດາ ລວດວິດວິເດີາເຜີເຊັ່ວລາວງ-ງດງວ) ຄຸດວິຣຣູອາດີ (ຣັ)ດາ ລວດວິດວິເດີາເຜີເຊັ່ວລາວງ-ຄຸດວິຣຣູອາດີ (ຣັ)ດາ ລວດວິດວິເດີາເຜີເຊັ່ວລາວງ-ຄຸດວິຣຣູອາດີ (ຣັ)ດາ ລວດວິດວິເດີາເຜີເວັດ ເວັດອີເດີຍີ່ ເວັດອີເດີຍີ ເວັດອີເດີຍີ່ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ່ ເວັດອີເດີຍີ ເວເີຍີ ເວັດອີເດີຍີ ເວເີຍີ ເວັດອີເດີຍີ ເວເີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວັດອີເດີຍີ ເວເີຍີ ເວເີຍີ ເວເີຍີ ເວເີຍີ ເວັດອີເດີຍີ ເວເີຍີ ເວເີ (Soe Naing, Director) Environmental Conservation Department (Soe Naing, Director) Environmental Conservation Department EXTENSION (သက်တမ်းတိုးမြှင့်ခြင်း) The VALIDITY of this certificate is extended for six months from (1.1.2023) to (30.6.2023) ဤလက်မှတ်အား(၁-၁-၂၀၂၃) ရက်နေ့မှ (၃ဝ-၆-၂၀၂၃) ရက်နေ့အထိ (၆)လသက်တမ်းတိုးမြှင့်သည်။ EXTENSION (သတိတမ်းတိုးဖြှင့်ခြင်း) The VALIDITY of this certificate is extended for one year from (1.1.2022) to (31.12.2022) ဤလက်မှတ်အား(ວ-ວ-ປວປປ) ရက်နေ့မှ (၃ວ-ວປ-ປວປປ) ရက်နေ့အထိ တစ်နှစ်သက်တမ်းတိုးကြွင့်သည်။ For Director General (Soc Nainy Director) For Director General (Sa Aung Thu, Director) Environmental Conservation Department (Soe Naing, Director) Environmental Conservation Department

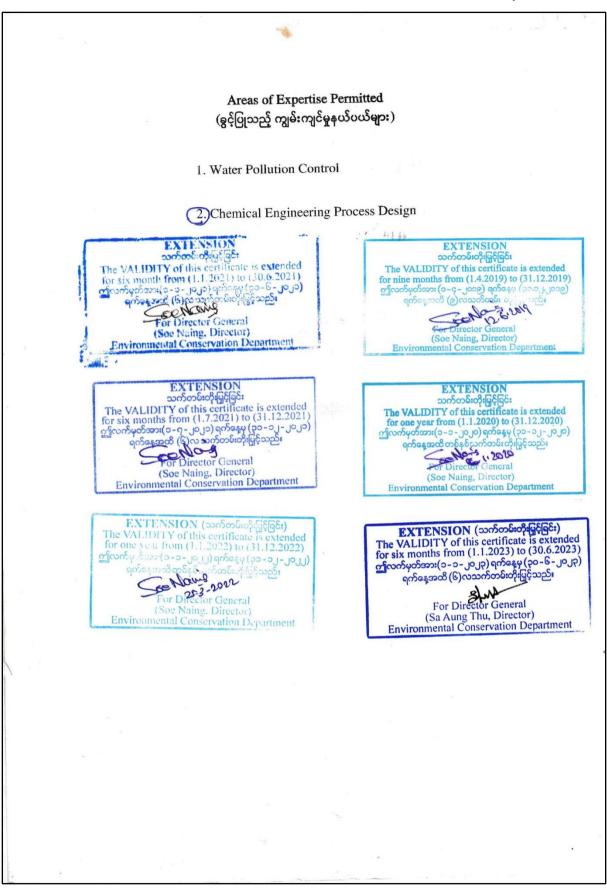
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SC Auto (Myanmar) Co., Ltd.

or of Blesta REPUBLIC OF THE UNION OF MYANMAR Ministry of Natural Resources and Environmental Conservation ERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) 10028 Date 11 11 2017 No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ စ်ာ၁၆/၂၀၁၅ အရ ဤအထောက်အထားလက်မှတ်ကို သယံဓာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant Prof. Engr. Daw Tin May Soe (a) (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship (b) Myanmar (နိုင်ငံသား) Identity Card / Passport Number 12/ Ka Ma Ya (N) 016072 (c) (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ် အမှတ်) 115, Kanaung Min Thargyi Road, Hlaing Thar Address (d) (ဆက်သွယ်ရန်လိပ်စာ) Yar Industrial City, Zone (1), Hlaing Thar Yar Township, Yangon. tinmaysoe949@gmail.com, 09 5077081 Organization Green Myanmar Environmental Services Co., (e) (အဖွဲ့အစည်း) Ltd. Type of Consultancy Person (f) (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) Duration of validity 31 March 2018 (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSIO **Director General Environmental Conservation Department** artment Ministry of Natural Resources and Environmental Conservation 1.1

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.



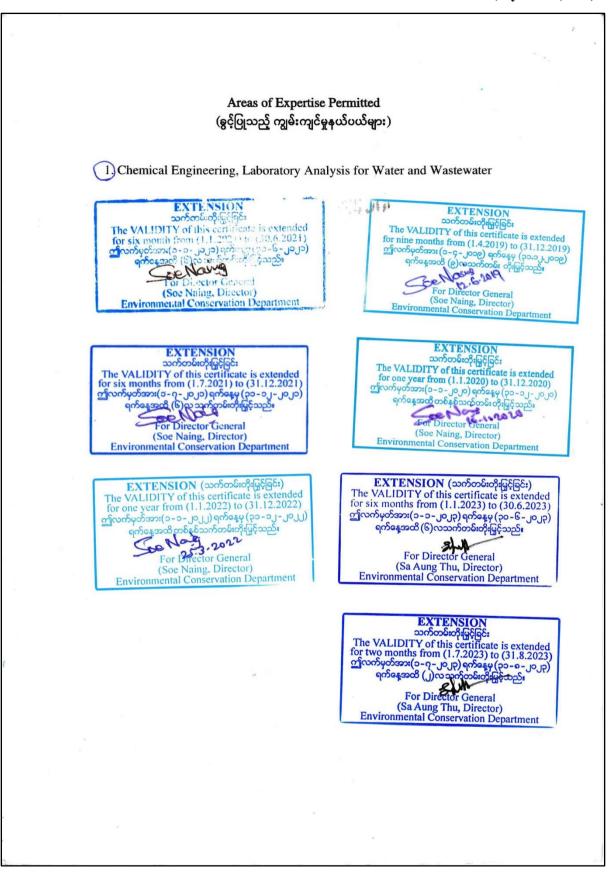
"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

REPUBLIC OF THE UNION OF MYANMAR Ministry of Natural Resources and Environmental Conservation CERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) Date 11 111 2017 10026 No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၆၁၆/၂၀၁၅ အရ သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် ဤအထောက်အထားလက်မှတ်ကိ သယံဓာတနှင့် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant (a) U Myo Myint (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship (b) Myanmar (နိုင်ငံသား) Identity Card / Passport Number 12/ Pa Ba Ta (N) 015315 (c) (မတ်ပုံတင်/နိုင်ငံကူးလက်မှတ်အမှတ်) Address 115, Kanaung Min Thargyi Road, Hlaing Thar Yar (d) (ဆက်သွယ်ရန်လိပ်စာ) Industrial City, Zone (1), Hlaing Thar Yar Township, Yangon. gmescompany@gmail.com, 09 2012723 Organization Green Myanmar Environmental Services Co., Ltd. (e) (အဖွဲ့အစည်း) Type of Consultancy Person (f) (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) Duration of validity 31 March 2018 (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSION to (31.3.2019 **Director General Environmental Conservation Department** Ministry of Natural Resources and Environmental Conservation

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

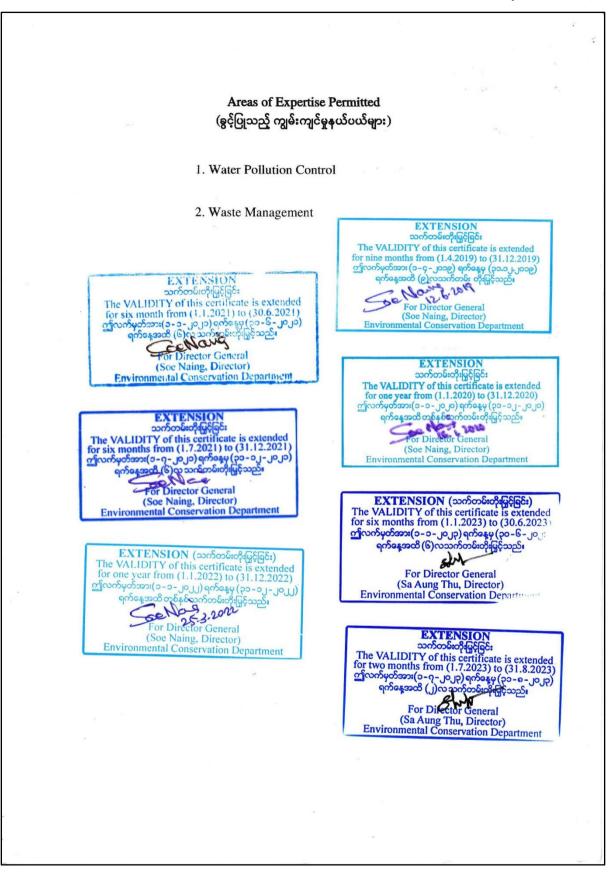
SC Auto (Myanmar) Co., Ltd.



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



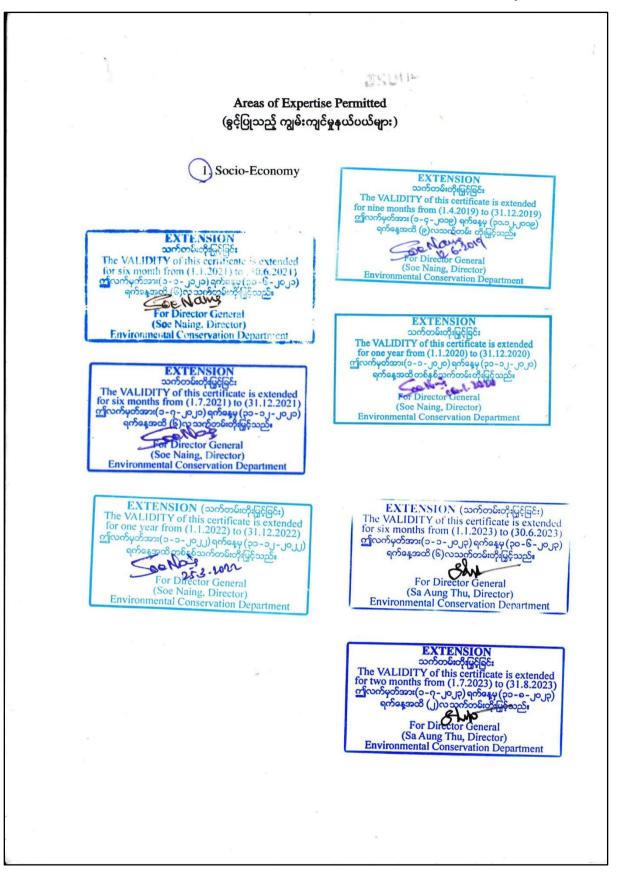
"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

EPUBLIC OF THE UNION OF MYANMAR try of Natural Resources and Environmental Conservation IFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) Date 11 11 70 0025 No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၆၁၆/၂၀၁၅ အရ ဤအထောက်အထားလက်မှတ်ကို သယံဓာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant U Khin Aung (a) (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship Myanmar (b) (နိုင်ငံသား) Identity Card / Passport Number 12/ Ma Ya Ka (N) 047032 (c) (မတ်ပံ့တင်/နိုင်ငံကူးလက်မှတ်အမှတ်) Address 115, Kanaung Min Thargyi Road, Hlaing Thar Yar (d) (ဆက်သွယ်ရန်လိပ်စာ) Industrial City, Zone (1), Hlaing Thar Yar Township, Yangon. khinaung1@gmail.com, 09 43066741 Green Myanmar Environmental Services Co., Ltd. (e) Organization (အဖွဲ့အစည်း) (f) Type of Consultancy Person (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) Duration of validity 31 March 2018 (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSION (31 3 2019 **Director General Environmental Conservation Department** Ministry of Natural Resources and Environmental Conservation

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

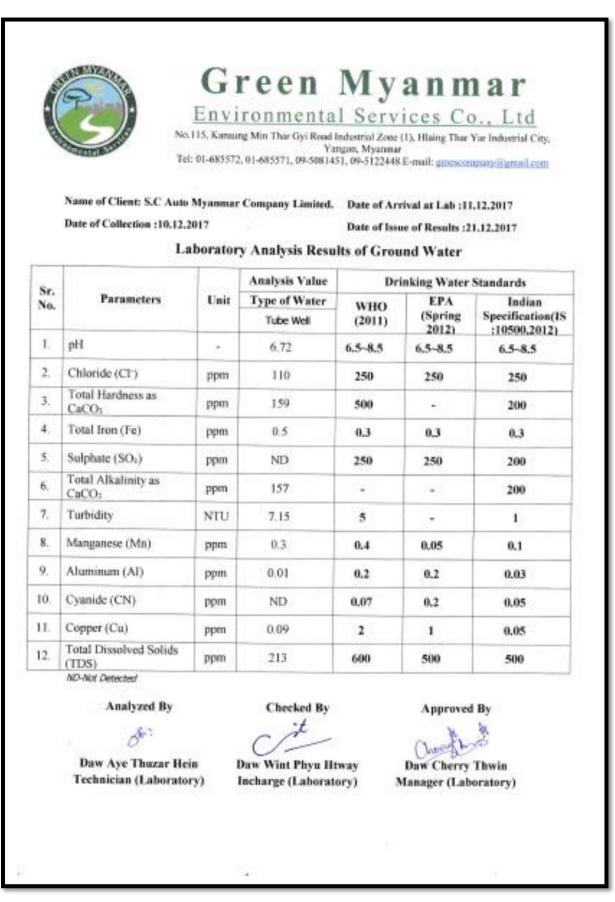
APPENDIX (3): Laboratory Analysis of Wastewater

Green Myanmar Environmental Services Co., Ltd No.115, Kannung Min Thar Gyi Road Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tel: 01-685572, 01-685571, 09-5081451, 09-5122448 E-mail: emessorspan-id-email.com Name of Client :S.C Auto Myanmar Company Limited. Date of Arrival at Lab : 11.12.2017 Date of Collection : 10,12,2017 Date of Issue of Results : 21.12.2017 National Environmental Analysis Value Quality Emission Sr. Guidelines (2015) Parameters Unit No. Type of Surface Water General Applications စတိရှ်ရှေ့ရှော်စုံးရေ I. pH -8.71 6 - 92. Chemical Oxygen Demand (COD) 473 ppm 250Biochemical Oxygen Demand 3. 95 50 ppm (BOD₃) 4. Ammonia (NH₂) ND 10 ppm 5. Total Cyanide (CN) ND 1 ppm Copper (Cu) 0.5 6. 0.09 ppm 7. Total Iron (Fe) ND 3.5 ppm 8. Oil & Grease 10 ND ppm 9. Phenols 0.36 0.5 ppm 10. Sulphide ND 1 ppm 11. Total Suspended Solids (TSS) ppm 155 50 12 Zinc (Zn) ppm 0.07 2 ND-Not Delected Approved By Analyzed By Checked By *t Daw Aye Thuzar Hein Daw Cherry Thwin Daw Wint Phyu Htway Technician (Laboratory) Manager (Laboratory) Incharge (Laboratory)

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

APPENDIX (4): Laboratory Analysis Results of Ground Water



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

APPENDIX (5): Laboratory Analysis Results of Soil



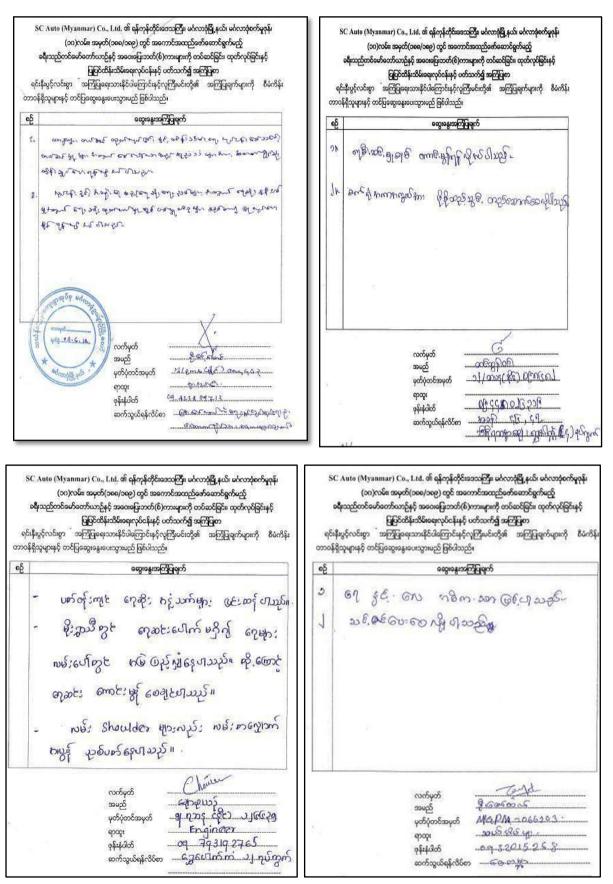
APPENDIX (6): Attendance List from Public Consultation Meeting

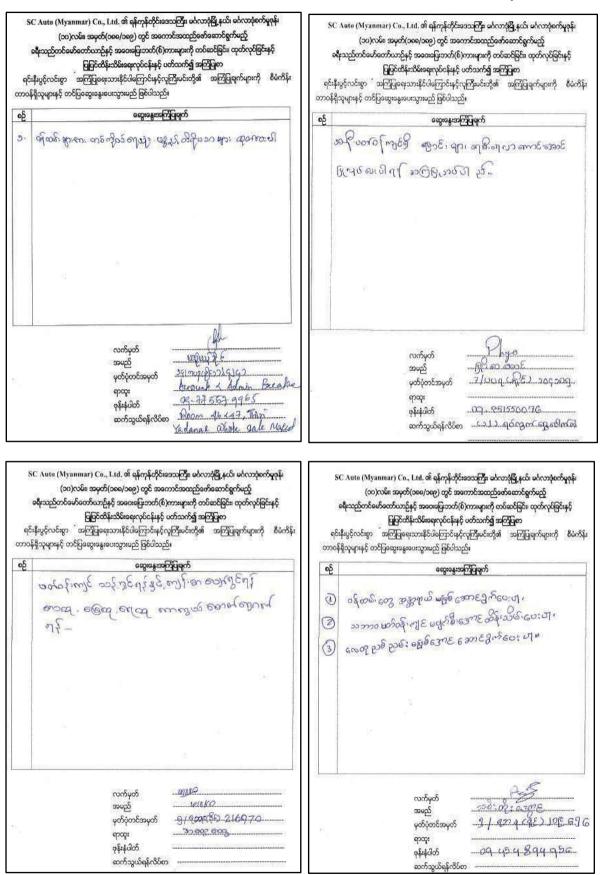
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	(၁၀)လမ်း : စရီးသည်တင်ဖော်တော်) Co., Ltd. ဒါ ရန်ကုန်တိုင်းဒေသကြီး မင်္ဂလာခုံခြို့နယ်၊ မ အမှတ်(၁၈၈/၁၈၉) တွင် အကောင်အယည်ဖော်ဆောင်ရွက် ပီယာဉ်နှင့် အဝေးမြေးဘတ်(စ်)ကားများကို တပ်ဆင်ခြင်း ထု မြှမြင်ထိန်းသိမ်းရေးလုပ်ငန်း မြန်ခွဲမှုအစီအစဉ်အစီရင်စံစာထွေးနွေးပွဲသို့ တက်ရောက်သူမျာ	မည့် တီလုခ်ခြင်းနှင့် အားရင်း
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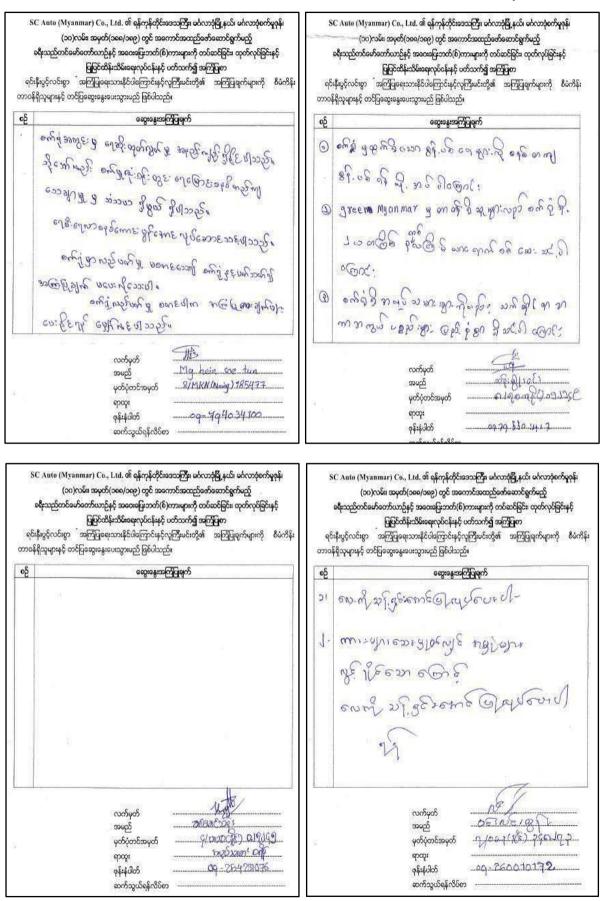
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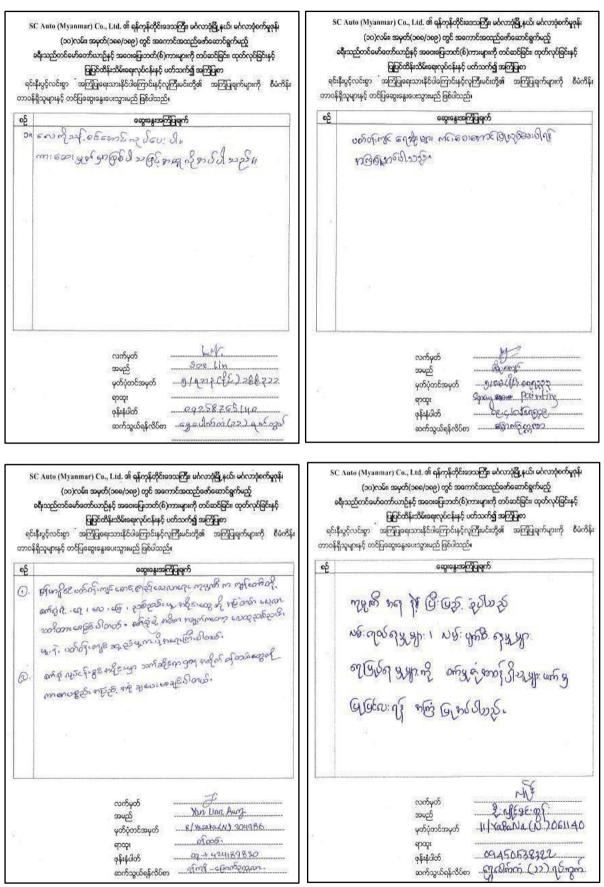
"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

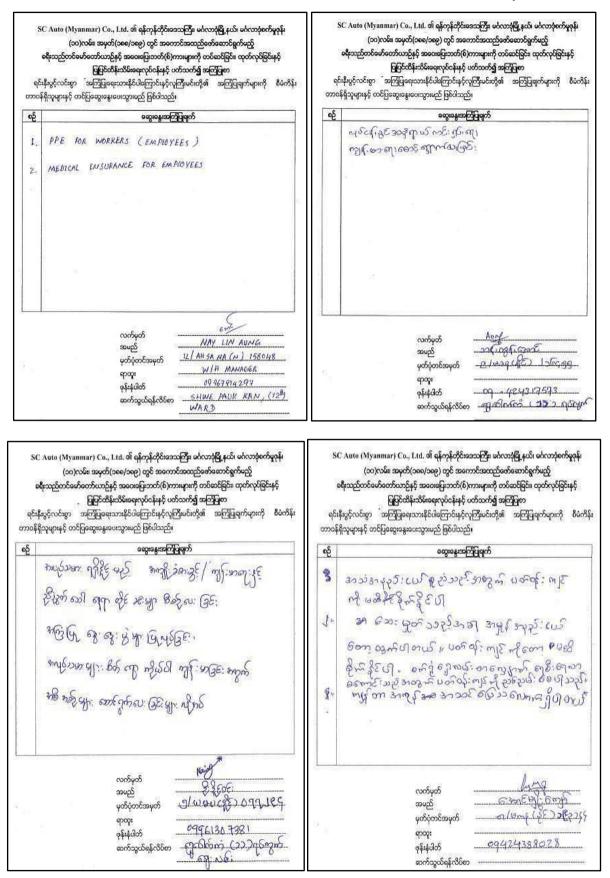
APPENDIX (7): Suggestions from Public Consultation Meeting











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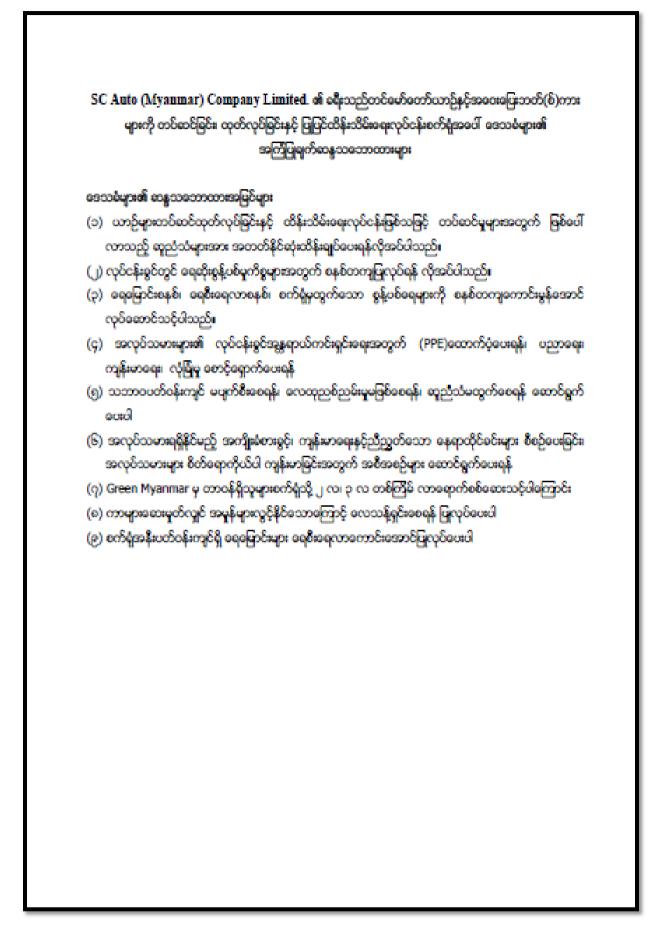
"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

APPENDIX (8): Requesting Letter of GMES on the Suggestion Letters

Environmental Services Co.,	Ltd
No.115, Kanaung Min Thar Gyi Read Industrial Zene (1), Hlaing Thar Yar Ind Yangon, Myanmar	lustrial City,
Tel: 01-685572, 01-685571, 09-5081451, 09-5122448 E-mail: gmcscompany/	gmail.com
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က်။ ။ ၂၀၁၇ ခုနှစ်၊ နိုင်ဝင်ဘာလ (၉) ရက်နေ့ တွင် စိမ်းလန်းမြန်မာပတ်ဝန် ဝန်ထောင်မှုလုဝ်ငန်းမှုက်နှင့် SC Auto (Myanmar) Company Li	းကျင်ဆိုင်ရ mited. တို့ဂ
နစ်ဦးသဘောတူစာချုပ်။	
သက်ပါအကြောင်းအရာကိစ္စနှင့်စပ်လှည်း၍ စိမ်းလန်းမြန်မာပတ်ဝန်းကျင်ဆိုင်ရာဝန်ဆေ SC Auto (Manazar) Company Limited ကို ကမ္မာစို (၁၀၁ (၁၀၁) မန်ဆာနေတဲ့	
SC Auto (Myanmar) Company Limited. ၏ အမှတ် (၁၀၈/၁၈၉)၊ မင်္ဂလာခုံစက်ရ ရန်ကုန်တိုင်းဒေသကြီးတွင် ရေးသည်တင်မော်တော်ယာဉ်နှင့် အဝေဖြေးဘတ်(é	
ရန်ကုန်တိုင်ဖေဒသကြာတွင် ရေသည်တစ်မာတော်ယာဉ်နှင့် အဖေဖြေသတ်(။ ထုတ်လုပ်ခြင်းနှင့် ပြုပြင်ထိန်းသိမ်းရေးလုပ်ငန်းအတွက် ကနဦးပတ်ဝန်းကျင်ဆန်း	7000 C
ကျင်စီမံနေန့် ဖွဲမှုအစီအစဉ်(EMP) ရေးဆွဲပေးရန် ရည်ညွှန်းပါ သဘောတူစာချပ် ချပ်ဆို	
	ထုတ်ပြန်ခြ
ဘွက် ရေးသားဖော်ပြရန် ၂၀၁၈ ခုနှစ်၊ စွန်လ (၁၈) ရက်နေ့တွင် ဒေသစံများန	
ထား အကြံပြုရက်များ ရယူစဲ့ပါသည်။ ယင်းအကြံပြုရက်များကို ဖတ်ရှူလေ့လာစဲ့ရာ	
ကို စက်ရုံရှိ တာဝန်ခံမှ မြန်လည်ရှင်းလင်းပေးစေလိုပါသဖြင့် ဖြေရှင်းရမည့်အကြံ သားပါသည်။	
မိုင်ရေးလူရ	Şξ

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

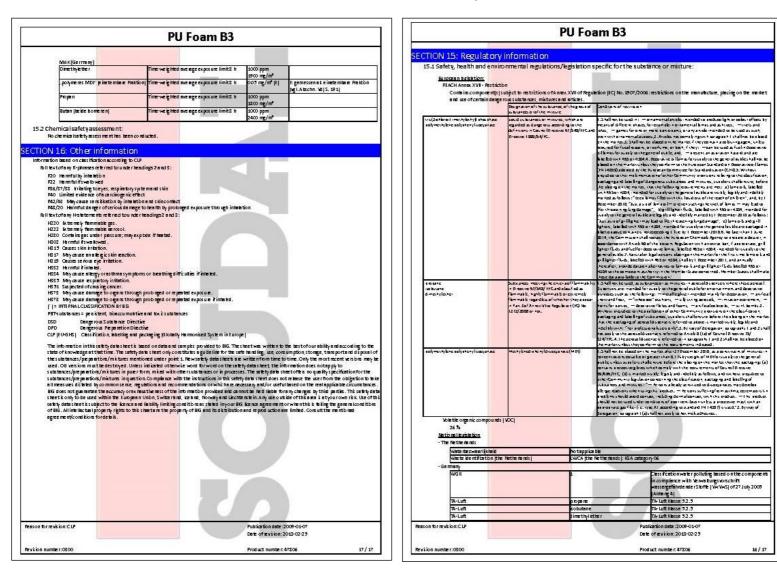
APPENDIX (9): Proponent Commitment Letter on Suggestion Letters

SC Auto (Myanmar) Co., Ltd. Room 46, 47, Block CC 44-65, Thiriyadana Wholesale Market, No (3) Highway Road, North Okkalapa Township, Yangon, Myanmar Tel: 01-1220933 зδ. ພະເຈດເດີຍເປີຍີ່ແກ້ດກາ စိမ်းလန်းမြန်မာပတ်ဝန်းကျင်ဆိုင်ရာဝန်ဆောင်မှလုပ်ငန်းကုမ္ပကီလိမ်တက် အမှတ်(၁၁၅)၊ ကနောင်မင်းသားကြီးလမ်း လိုင်သာယာစက်မှုစုန်(၁)၊ လိုင်သာယာမြို့နယ်၊ စွန်ကုန်တိုင်းဒေသကြီး။ ရက်စွဲ - ၂၀၁၈ ခုနှစ် ဩဂုတ်လ (💐 🤉) ရက် ၊ SC Auto (Myanmar) Company Limited ၏ စတ်ရုံအပေါ် ပတ်ဝန်းကျင် အက်ောင်းအရာ။ ရပ်မိရပ်စုအေသစံများ၏ အကြံမြုချက်များ ဆောင်ရွက်ပေးသည်, မြန်ကြားခြင်း ര്ളം ၇၂၀၁၈ ခုနှစ် ဩဂုတ်လ (49) ရက်နေ့ တွင်စိမ်းလန်းမြန်မာပတ်ဝန်းကျင်ဆိုင်ရာ ရည်သွန်းရက်။ ဝန်ဆောင်မှလုပ်ငန်းကုမ္ပကီလီမိတက်၏ ပေးပို့စာ။ အထက်ဖော်ပြပါကိစ္စနှင့် စပ်လူနာ၍ ရည်ညွှန်းပါတဖြင့် SC Auto (Myanmar) Company Limited ၏ စက်ရုံပေါ် ပတ်ဝန်းကျင်ရပ်ခံရပ်အဒေသခံများ၏ ဆွေးနွေးအကြံပြချက်များကို စက်ရုံမှ ແນວວິຊຸດຈິຍມແລວ, ໝໍສິເມຍຸລິພຸກເດີ ມີຊີເດີກເໝຍິບໃຈເວລີແ ၊ ပတ်ဝန်းကျင် ရပ်မိရပ်ဖဒေသခံများ၏ ဆန္ဒသဘောထားများအပေါ် စက်ရုံမှု 4 (C00) ဆောင်ရွက်ပေးမည်, အစီအစဉ်။ 23-8-2018 SC Auto (Myanmar) Company Limited အမှတ် (၁၈၈/၁၈၉)၊ မင်္ဂလာဒံစက်မှခုံ၊ မင်္ဂလာခံမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး၊

စက်ရုံမှုဆောင်ရွက်ခ အကြံပြုမျက်ဆန္ဒသဘောထားများ	ဆောင်ရွက်ပေးမည့်အစီအစဉ်
စေသမများ၏ ဆန္နသဘောထားအမြင်များ	
(၁) ယာဉ်များတပ်ဆင်ထုတ်လုပ်မြင်းနှင့် ထိန်းသိမ်း	(၁) ရာသံသံလျော့နည်းရန်အတွက် စက်ပဋ
မရက္နင်အနီဆိုသဖြင့် တပ်ဆင်မှုများအတွက် ခရက္ခင်အပိုက ပိုစ္ပင်အနီခိုသိပ္ခံကုန်	များအား ပြင်ဆင်ခြင်း၊ ဆူညံသံထွက်သူ
ရေးပုံပနေရမသင်္တ တဝဆင်မှုနှာအတွက် ဖြစ်ပေါ် လာသည့် ရာညံသံများအား အတတ်	
දිරිණාගිදිංශුරිගොදර්ශාර්ථානාව දිරිණාගිදිංශුරිගොදර්ශාර්ථානාව	စက်ပစ္စည်းများကို ကာခြေင်းများ ပြလုပ် ဝင်းနေရာတွင် လုပ်ကိုင်နေသော ဝန်ထန်
Aceberrate Consider Association	အတွက် အကာအကွယ်ပစ္စည်းများ စီစဉ်
	အတွက် အကာအကွယ်ပစ္စည်းနား စစဉ ပေးပါးသီး
(၂) လုပ်ငန်းခွင်တွင် ရေဆိုးရွန့်ပစ်မှုကိစ္စမှား အတွက်	(၂) ပတ်ဝန်းကျင်စီမနေန်ခွဲမှုအစီအစဉ် အရ
စနစ်တကူမြလုပ်ရန် လိုအပ်ပါသည်။	နိုင်ငံတော်မှ သတ်မှတ်ရက်မှားနှင့်အညီ
	ဆောင်ရွက်ပါရည်။
(၃) ရောမြာင်းစနစ်၊ ရေစီးရေးဟစနစ်၊ စက်ရုံမှု	(၃) သက်ဆိုင်ရာစက်မှုနန်စီမေနို့ခွဲရေးကော်
ထွက်သော စွန့်ပစ်ရေများကို စနစ်ထကျ	တင်ဖြ၍ လုပ်ဆောင်ပါသေ။
ကောင်ဆွန်အောင် လုပ်ဆောင်သင့်ပါသည်။	
(၄) အလုဝ်သမားများ၏ လုဝ်ငန်းရှင်အနုရာယ်	(၄) လုဝ်သားများ လုဝ်ငန်းခွင် ဘေးချွှေရော
ကင်းရှင်းရေးအတွက် (PPE)ထောက်ပံ့ပေးရန်၊	ကင်းရှင်းရေးအတွက် ဆောင်ရွက်ပေးပါ
ပညာရေး ကျန်းမာရေး လုံမြံမှ စောင့်ရောက်	n
6016£	
(၅) သဘာဝပတ်ဝန်းကူင် မပျက်စီးစေရမ်၊ လေထု	(၅) ပတ်ဝန်းကျင်စီခံရန်ခွဲမှအစီအစဉ်အရ
ညစ်ညှင်းမှုဖြစ်စေရန်၊ ရာညံသမတွက်စေရန်	နိုင်ငံတော်မှ ရမှတ်ထားသော လမ်ညှုန်
ဆောင်ရွက်ပေးပါ	နှင့်အညီဆောင်ရွက်ပါမည်။
(၆) အလုဝ်သမားရရှိနိုင်မည့် အကိုနာစံစားခွင့်၊ ကျန်းမာ	(၆) အလုဝ်သမားဝန်ကြီးဌာနမှ ညှှန်ကြားထ
ရေးနှင့်သီညွတ်သောနေရာထိုင်စင်းများ စီစဉ်ပေး	အလုဝ်ရများနှင့်ပတ်သက်သည့် ဝန်ထမ်
မြင်း အလုပ်သမားများ စိတ်ရော ကိုယ်ပါ ကျန်းမာ	နှင့်အညီ ဆောင်ရွက်ဖောပါးညို
ခြင်း အတွက် အစီအစဉ်များ ဆောင်ရွက်ပေးရန်	(၇) ပတ်ဝန်းကျင်စီခံနေ၌မူအစီအစဉ်ပါ စေ
(၇) Green Myanmar မှ တာဝန်ရှိသူများစက်ရုံသို့ ၂	အခွဲများမှ စောင့်ကြည့်တိုင်းတာ စစ်ဆေ
လ၊ ၃ လ တစ်ကြိမ် လာရောက်စစ်ဆေး သိမ်ပါ	ပတ်ဝန်းကျင်စီခံနေခဲ့မှု အစီအစဉ်အတိုင်
ကြောင်း	ဆောင်ရွက်ပါမည်။
(စ) ကာမွားဆေးမှတ်လျှင် အမှုန်မှား လွင့်နိုင်သော	(စ) ကားဆေးမှတ်ရာတွင် အထူးသီးသန့် အ
ကြောင့် လေသန့်ရှင်းစစနန် ပြလုပ်ပေးပါ	များတွင် နေစ်တကျ စီစဉ်ထားမှိပြီး အမူ
	မလွင့်စစရန် အကာအရများနှင့်အမှုန်စုဝ်
	စီစဉ်ဆောင်ရွက်ပါမည်။ ဝန်ထမ်းများ အ
	အကာအကွယ်ပစ္စည်းမှား ဖြည့်ဆည်ပေ
(၉) စက်ရှုအနီးပတ်ဝန်းကျင်ရှိ ရေမြောင်းများ	(၉) သက်ဆိုင်ရာစက်မှုနှစ်မနေ ခွဲရေးက
ရေစီရေလာကောင်းအောင် ပြလုစ်ဖောပါ	သတင်းပို့၍ ရေစီးရေလာကောင်းစေရန်

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.



APPENDIX (10): Material Safety Data Sheet

P	U Foam B3
14-2. UN propershipping name:	
Propershipping nome	Aerosols
43 Tensport hezerd class [45]:	
Ebss	P
E bss inartion code	DF
1.4 Packing group:	
Packing group	
Late t	2.1
.5 Emviron me mis l haza dis:	
Environmentally haza dous substance mark	80
6 Special precautions for user:	
Special provisions	190
Special provisions	827
Special provisions	244
Speciel provisions	629
Lim ized que nitilies	Combination packagings: not more than 1 liber perinner packaging to Iquids. A packages hall not weigh more than 30 kg, gross maas)
(IMDG) 4.1 UN number:	
UN num ber	200
2 UN propershipping neme:	
Propershipping nome	4erosols
3 Tensport hezerd class [as]:	
Eless	k.1
A Packing group:	
Packing group	
Late b	2.1
	F.1
7 Environ menta I haza dá: Manine pollutant	
Environmentally haza dous substance mark	no
a Special precautions for use r:	
Speciel provisions	53
speciel provisions	and management
special provisions	277
Special provisions	827
Speciel provisions	844
Special provisions	8.78
Lim ited que ntities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. gross mass
17 Tensport in bulks coording to Annex Hof MARPOL 73/78 a	
A nnex. Hof MAR POL 73/78	Note ppicable, tesed one valiable date
CAO-TI/IATA-DGR) Li UN number:	
UN num ber	19 50
2 UN propershipping name:	
Propershipping no me	Aerosols, fill mma ble
IS Tensport hezend class (es (:	
Eless	p.1
A Packing g to up:	
Packing a pun	
Packing group Labe b	2.1
.5 Emviron me misi heza dis: Environ me misi heza diour substances mesta	100
Environmentally haza dous substance mark	n
a Special precautions for user:	
Speciel provisions	4 \$\$ 7
special provisions	4 157
special provisions	4302
Passe nger and cango teins port limited quantities : maximum per packaging	Inetquantity BO IEG
brnevision:CLP	Publication date: 2008-01-07
	Date of evision: 2013-02-25
number:0800	Product number: 47806

13.1.1 Waste treatment methods: 13.1 Waste treatment methods: 13.1 Waste treatment methods: 13.1 Provide methods by a first or the set of control interpretence of of		PU Foam B3
Vaste mate inkoose peckeging Directed 2006/85/6(4) 2004 DV (packeging points into mesh the offerent ministed by design roots subt in next). CHON 14: Transport Information Read (ARR) A1. UN number Proper shipping mme: Proper shipping mme: Provide and the shift of the s	13.1.1 Provisions ne tring to varies Worke metric incode (Directine 2006/98), 05.04.09 "pentre artierise and scena into process, absorber 10 MAL code my te 13.12 Dispose interbiods Remore wests trie in orkeo toget Hemore wests trie in orkeo toget vests trie I are managed responsibly. Al pointkinord amage to propio for anime	containing organic solvents or other rollings to us substances). De pending on banch of industry and produ applicable. Han not a waste according to Directive 2000/98/KC. Ind for mational equilations in According to Directive 2000/98/KC. The right of the solution of the solution or case to problem to the further management of the watte. He and type of this right of the production or case to problem to the further management of the watte. He
Read (ADR) 34.1 VR number VR anumer UR anumer VR anumer<	Weste meterielcode packaging (Diectiv	
14.1 Windmiter 19 20 14.1 Windmiter 19 20 15.2 With number 19 20 15.3 The proper shipping neme: Person 6 15.3 The proper shipping neme: 1 15.3 The proper shipping neme: 1 15.3 The proper shipping neme: 1 15.4 Statistics 1 15.5 Statistics 1 15.6 Statistics 1 15.7 Statistics 1 15.8 Statistics 1 15.8 Statistics 1 15.9	CTION 14: Transport informa	ation
JA number JB 30 3k 2 UKP poper shipping mme Actor ob Projer shipping mme Actor ob How at least dist [6] [1 Image: State observation on the state observation of the state observation		
4.2 With poor at hipping more Mercook More at the more case [a]: Mercook Marco at the more case [b]: Mercook Marco at the more more case [b]: Mercook <		La su constante de la superiori
Program Shipping mm Across to a second sec		oc ed
143 Terr portineard data jej:		kanask
Best of the mitigation number 1 Best of the mitigation number 2 Best of the mitigation of the mitig		REFOSOB
Ess 2 Basi ficationcode PF Basi ficationcode PF Basi ficationcode 2 Basi ficationcode <		
Existing oup PF 344 Picking oup J Ast informer thiles of: J Inition methiles of: Po Specing provides SP Specing prov		
348 Packing go up: Packing go up: As Inclone me file lines dots subtitives merits Packing go up: Packing for up: Packing for up: Packing for up:		
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Green Myanmar Environmental Services Co., Ltd.

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40 (test) data on th	e mixture eve ib	ible		11					
ri 12-chloro-1-met Route of exposu	itvietitvi ahosa e Result	Method	E	kposu e time	D taz wation point	time Species	Sender		Velue determinetion
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rij2-chloro-1-met						8			
Route of ex posure	Pa na me ter	Nethod	Value	Digmen	Brect	Exposu e time	Species	Gender	Velue determinetion
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Del	NOAEL	OECD408 Bquivalent to	2 500 ppm	-	Noeffect	13 week poly	Part	Fe male	en lue Experime mot
foo ana vitram vo	ala a ti ca a a	OECD408		1				1	ale.
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Inha lation	ID AEC	OECD422	12000 ppm	Se ne ral	Body we ght eduction	6 week j6 tylday, 7 days/weekj	Part	Male	Experimental
inha lation	NOAEC	OECD422	12000 ppm	Centel nenious system	Noeffect	6 week j6 h/day, ? days/weekj	Rat	Male/le ma e	l Experimente I volue
Inha lation	Dose evel		900 ppm	Dentra I ne nicus system	Noeffect	10days Bhilday)	Human		Read-across
inethylether	80.51		1. 17	Fystem	-	-		16	8
Route of	Pa na rne ter	Method	Value	þæn	Bect	Exposu e time	Species	Se nde r	Veluc
ex posu re Inheletion	NOAEC	Equivalent to OECD452	47 106 mg/n	~	Notflect	2 year\$ 6 h/day, 5 days/week	Pert		determination Literature study
tasinationof the <u>inclusion</u> very cause de mege oversub-chionic to penicity (in vitro) <u>cem EE</u> 40 (test) deta on th ri (2-chiono-1-met	too gans thio wicitγ bγ the de i	ed on the relevan ugh probinged o rmairoute	All Contracts					-	
Result	and a prova p	Method		Testsub		Effect	-	Volue dete	
Negative				Chinese	hemster lung ts	Noeffect		Weightofe	vidence
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No jtestjørte on the r	mixture eve ib b	e .					
tril2-chloro-1-methy				(a) - (a)	10000		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
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14		401	tw		8 12		14 30 ⁴⁷ 333
Dermal	LD30	D 8CD 402	> 2000 mg/kg trw	24 h	Fabbit	Na is/female	6, pe rime rital va lu
Inhelection lecrosol	cπ	Equine le rit to OECD 408	5 mg/lair	4 h	Fat	No is/female	Weightofeviden
polymethy lene polypi	te nulisone ne						04 90
Route of	Parameter	Method	Value	Bi posu ne time	Species	Gender	Ve luc
ex posu re			11	- 22	N.		de termine tion
Del	1030 M		> \$0000 mg/kg	1	Fat		Life reture stud y
De rms I	ш ж		> 5000 mg/kg	40	Fabbit		Life reture study
Inteletion	10 9 0		10-20 mg/l	4 h			Lite rature stud y
ve pours	_						
Route of	Parameter	Method	Volue	Bi posu re tirre	Species	Gender	Velue
ex posu re	0000-0000-000	100000	0010100	1. 1	and the second	and the store	determination
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		3			-		6.
Inheletion [gases]	Dose ever		1000 ppm	8 h	Humen		Read-ac ross
iobute ne	8 - N	96		100	St. 10. 1		1051
Route of	Parameter	Method	Volue	Bk posu ne tirne	ā pecies	Gender	Ve luc
ex toon us							determination
Inheletion	n D		> 50 mg/l	4h	Fat		Life reture stud y
dimethyletter			Lange 1	I	1	1.	25 10 2000
Route of ex posure	Po ro me ter	Method	Volue	Bi posu ne tirne	6 pecies	Gender	Ve lue determinetion
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Cerms I	· · · · ·				1		Not relevant,
	LC 70	1		4 h	-		es, pe it judge me m
Inheletion	LD LD		809 mg/l 16399 1 ppm	4n 4n	Ret Ret	-	Lite reture stud y
<u>Conclusion</u> Lowecute toxicity by	the de rme i rou	on the relevant inged ne			Pat		Life nature stud y
Conclusion	the dermaliou the onalroute the inhelation mixture anails b	re route			Pat		ן נהפיופר ופרעים איז
Conclusion Lowe cuts toxicity by Lowe cuts toxicity by Lowe cuts toxicity by oscion/irritation <u>Jecem BE</u> No jestjuts on the i fri Jechoo-Lengthy Route of exposur	the derma irou the onairoute the inha bton mixture ana is b lethy i ahosah e Result	ne route le late	ent of the mixtue		wint	5pecès	Value determination
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SC Auto (Myanmar) Co., Ltd.

	PU Foam B3
ECTION 9: Physical and che	mical properties
9.1 Information on basic physical a	
Physical form	Aerosol
Delour	Character is tic od our
Delour thres hold	Nodate availe be
Colour	Write be in colour, de pending on the composition
Porticle size	Nodete evente bit
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Vepour piess ure	Nodate availe bt
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sommer	oga në sohe nës ; soluble
Relative density	097
Decomposition tempe e ture	Nodate analia bit
4 uto- gnition te mpe reture	Nodate averie bt
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Dv. bising properties	Nochemical group associated with oxidising properties
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Remme ble se rosol	
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socyanates	Test	Nu mite r	
ocyana ies	NIOSH	5522	
socyanates	NICSH	5521	
	sing the substance or mixture as intended on into be these will be fisted be low.		
Effect level(DNEL/DMEL)	Тура	Value	Re mark
DNEL	Ac ute systemic effects de rmai	0.522 mg/kg bw/day	1
	Ac ute systemic effects inheletion	D93 mg/m	16
	long-te misyste mic effects de rma l	0.528 mg/kg trw/day	5
	long-term systemic effects in he bit on	0.93 mg/m*	
limethy letter	-		
Effect level (DNEL/DMEL)	Түре	Voluc	Re mark
DNEL	Long-term systemic effects in he bit on	1294 mg/m*	
ONEL-General constation			
rs 2-chloro-1-methylethyll phos		Voue	Re mark
Effect Invell(DNEL/DMEL) DNEL	Type Ac de systemic effects de rmai	D264 mg/kg trw/day	ne mark
Diffe	Ac ute systemic effects inheletion	D 23 mg/m*	
	Acute systemic effects on I	D33 mg/kg tw/dey	
	Long-te mis yste mic effects de rms l	0.264 mg/kg tw/day	10
	long-term systemic effects into a tion	0.23 mg/m*	
	Long-term systemic effects one l	D33 mg/kg bw/day	1
lime thy le the r			36 26
Effect level (DNEL/DMEL)	hype	Volue	Re mark
DNEL	Long-term systemic effects in he bit on	\$71 mg/m*	
NBC			
ime thy letter			
Compartments	Value	Re merk	
Resh weter	0.135 mg/l		
Se it wate r	0.016 mg/l	2	
Aque intermittent releases	1.349 mg/i		
Weste we ter treet me nt ple nt	160 mg/l		
Freshweter sediment	Disting/kg		
Merine wate reed iment Soil	0.069 mg/kg 0.045 mg/kg		
Control banding	proto mg/ ng		
osure controls:	ene el Idescription. If e pplicable and available, expos	ure scene risse reletteched in ennex	.A ways use the relevant
eris thetcomespond to your il L Appie priste e grimetrigoont less park/explosionproofs pris concentation in the air regularly I ndividual i protection measure Dise ne very strict hygiere - avo spinito y, protection; Wearges mark with filter type A	obe n.e.s and lighting system. Nee paway from naked the s, such as personal protective equipment is combact. Do notest sinkorsmoke suring work.	mes/heat. Hee p away from § nition	souices, sperks. Measun
aris that comes point to your il Appoints engineering cont Ae spark/explosion proof apple concentration in the air regular individual protection measure blacene very strict hygiene - avo spinto vy protection Vear gas meak with filter type A ing protection:	obe n.e.s and lighting system. Nee paway from naked the s, such as personal protective equipment is combact. Do notest sinkorsmoke suring work.	mes/heat. He p away from g nition	sources, é paris. Measur
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ris that comes point to your if Apping print a engineering cont is the particle point composition pro- once intertion in the eir regularly individuel production measure that new way strict thigher - and opping to y production; there par mark with the trype A and production; bwes. https://www.	ote inzes and lighting system. Heep away from an last fla such as personal protective equiprient is contact. On other at dink or smole during work. if conc. in a iro exposure fimit. Breakthrough time		sources,¢psrks. Mensun
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2.4 Non suite ble packeging meteriel: No dete ene it ble			
Specificend use(s): Itapplicable and available, exposure s	scenerios ere etteched in ennex.See information	supplied by the monutor	turer
ON 8: Exposure contro	ols/personal protection		
Control para meters: .1.1 Ocu pationales pour a al Occupationales posure finithe lues al Minithe lues are applicable and ana h		<	
The Nether Inds Dimethy Ether	Short time ve lue	723 ppm 1.700 mg/m*	Public occupations lexposure limit valu
	Time-weighted anemage ex posue limitS h	196 ppm 9 50 mg/m*	Public occupationalexposure limit valu
EU			
Dime thy Ether	Time-weighted and rege ex posule fimits h	1000 ppm 1920 mg/m*	Indicative occupational exposure limit value
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USA (T W-ACGIH) 6 ápta tác hydi roca rítion gases - a lleines C4 j	s K1-Time-weighted are regeren posure limits h	1000 ppm	TLV- Adopted Value
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Dimethy Ether	Time-weighted and regelex posule (mits h	2400 mg/m 1000 ppm	1952 900
Propen	Time-weighted ane rege at posue limits h	1900 mg/m* 1000 ppm 1200 mg/m*	000 Z24T
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Duyde de dimethyle	Time-weighted and rage ex posule fimits h	1000 ppm 1920 mg/m*	VRI: Vale ur régle me ritaire indicative
UK			
socyanates, all jas-NCO(Except met socyanate	thy I Short time value	0.07 mg/m*	Workplace as posure limit (EH40/2003
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Dimethy letter	Shorttime velue	900 ppm 978 mg/m*	Workplace av posure lim it (EH40/2003
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 4.2 Most important symptoms and effects, both acute and 4.2.1 Acute symptoms after intention: 0x/sole throat Coupling, intention of the expiratory that infetion UATE: Possible information of the expiratory that is infetion of the expiratory that is infetion. 0x/sole is infetioned to the expiratory that is infetion of the expiratory that is infetion. 0x/sole is infetion of the expiratory that is infetion. 0x/sole is infetioned to the expiratory that is infetion. 0x/sole is infetioned to the expiratory that is infetion. 0x/sole is infetioned to the expiratory that is infetioned	of the most imacous membranes. Runny nose, ROLLOWING SYMPTONG MAY APPEAR eme. Respiratory difficulties.
ECTION 5: Firefighting measures	
polymerte on exposure to temperatue rie. On heisting : elasse of t 5.3 Advice for firefighters: 5.3.1 Instructions:	hy iso lexplosion risk exting us hybool from be hird cover. Do not move the bed if line toxic gases with weter spay.
SECTION 6: Accidental release measures	. Hen o une exposure : compresseu n rook Ben n han n mas.
6.1 Personal precautions, protective equipment and emergy Spergies and normality. Nore that fines or pards. Spin end exp 6.11 Potectie equipment for none marge noy personnel See hearings 2 6.12 Potectie equipment for emerge noy expondes Gloss. Potectie gogs is. Head /neckpotection. Protectie obti Spinhale potecties existing See heading 8.2 6.2 Environmental precautions:	ks ionproof appliances a nd if tring equipment.
Demupthe solid spill. Use appropriate containment to avoid environmen 6.3 Met hods and material for containment and cleaning up A low product to solidify and remove it by mechanical means. Carefuly, or	: Diect the spil/leftowers. Clean (trest) come mineted surfaces with acetore. The collecter
spill to me nufacture (do mpe tente uthority. Wash clothing and equipmen 6.4 Reference to othersections: See treading 13.	torie rite nd lung.
scenerics thet corespond toyour demined use. 7.1 Precautions forsafe handling:	and the second
Reason for revision: CLP	Publicationds tz: 2009-01-07
Revision number: 0800	Date of revision: 2013-02-25 Product num ter: 47806 4/17
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sonfor revision: CLP Publicationdate: 2009-01-07		<u> </u>					1	Conception and a second second
	wee if you tee lumin	ed kalise nič	omiting. Consult a doctor/in	rink. Do not indiaze y	ions of water	arter ingestion: gi	immed are ty	First mouth with water.
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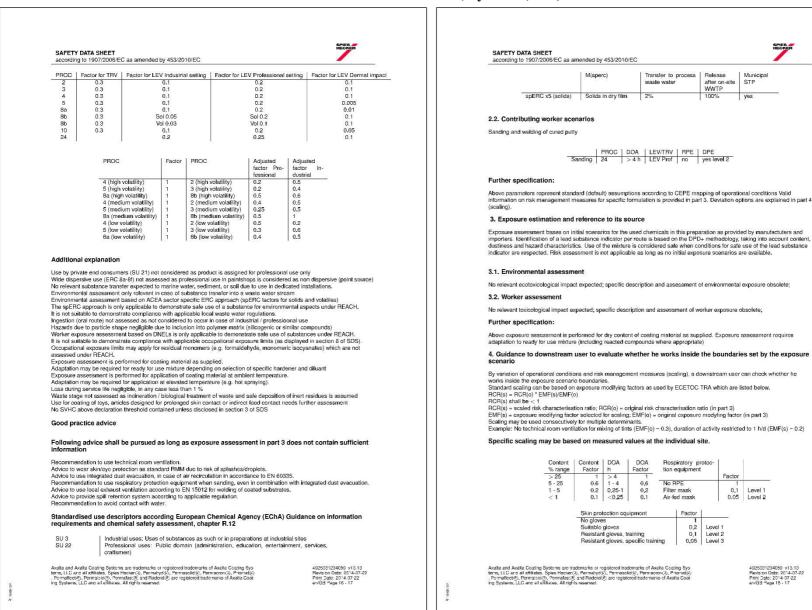
	PU Fo	am B3	
2.2 Label elements:			
Labelling according to R	egulation EC No 1272/2008 (CLP)		
^			
۲			
Contains polymethy	ene polyphenyl isocyanate.		
Signal word	Danger		
H-statements			
H222	Extremely flammable aerosol.		
H351	Suspected of causing cancer.		
H373	May cause damage to organs through prolo	nged or repeated exposure if inhaled.	
H319	Causes serious eye irritation.		
H335 H315	May cause respiratory irritation.		
H315 H334	Causes skin irritation. May cause allergy or asthma symptoms or b	en at blinne al définisétée e lé limbra le al	
H317	May cause an allergic skin reaction.	earning billic brues in inflateb.	
P-statements	way cause an aneige skin reaction.		
P101	If medical advice is needed, have product co	ntainer or label at hand	
P102	Keep out of reach of children.		
P210	Keep away from heat/sparks/open flames/h	at surfaces Na smaking.	
P251	Pressurized container: Do not pierce or burn		
P280	Wear protective gloves and eye protection/	ace protection.	
P 260	Do not breathe spray.		
P309 + P311	IF exposed or if you feel unwell: Call a POISC	N CENTER or doctor/physicia n.	
P410 + P412	Protect from sunlight. Do no expose to temp	eratures exceeding 50 °C/122°F.	
P501	Dispose of contents/container to manufactu	rer/competent authority.	
Supplemental inform		may develop allergic reactions when using this product.	
		kin problems should avoid contact, including dermal contact, ditions of poor ventilation unless a protective mask with an ap used.	
Labels			
R-phrases	lene polyphenyl isocyanate.		
	larmful by inhalation		
	rritating to eyes, respiratory system and skin		
	imited evidence of a carcinogenic effect		
42/43	May cause sensitisation by inhalation and skin contac	E /	
48/20	larmful: danger of serious damage to health by prole	nged exposure through inhalation	
S-phrases			
	Keep out of the reach of children }		
	keep away from sources of ignition - No smoking		
	Oo not breathe spray		
	Near suitable protective clothing and gloves	and the land of the second	
	n case of accident or if you feel unwell, seek medical Jse only in well-ventilated areas	advice immediately (show the label where possible)	
	Jse only in well-ventilated areas In case of accident by inhalation: remove casualty to	frorth air and keen at rents	
(65) Additional recomme		ries ir an and welp at rest?	
	siner. Protect from sunlight and do not expose to ten	peratures exceeding 50°C.	
	burn, even after use.		
	naked flame or any incandescent material.		
Contains isocyan	ates. See information supplied by the manufacturer.		
Beason for revision: CLP		Publication date: 2009-01-07	
neason for revision: Cu ^a		Date of revision: 2013-02-25	
Revision number: 0300		Product number: 47806	2/17

		PU Foam B3
TION 1: Ident	tification of	f the substance/mixture and of the company/undertaking
.1 Product identif		
Product name Registration numbe		: PU Foam B3 : Not applicable (mixture)
Product type REACH		: Mixture
.2 Relevant identi	fied uses of the	e substance or mixture and uses advised against:
12.1 Relevant ident polyurethane	fied uses	
12.2 Uses advised a No uses advised		
.3 Details of the s	upplier of the sa	afety data sheet:
Supplier of the safet	v data sheet	
SOUDAL N.V.	Mark 200 Stopp Terrold	
Everdongenlaan		
B-2300 Tumhout Tel: + 32 14 42 42		
Fax: + 32 14 44 39	9 71	
msds@soudal.co	m	
Manufacturer of the	product	
SOUDAL N.V.		
Everdongenlaan		
B-2300 Turnha Tel: + 32 14 42 42		
Fax: + 32 14 44 39	9 71	
msds@soudal.co	m	
.4 Emergency tele	phone number	r:
4 Emergency tele 24h/24h : + 32 14		r: lephone advice: English, French, German, Dutch)
24h/24h : + 32 14	584545 (BIG) (Tele	lephane advice: English, French, German, Dutch)
	584545 (BIG) (Tele	lephane advice: English, French, German, Dutch)
24h/24h : + 32 14	584545(BIG)(Tell	lephone advice: English, French, German, Dutch)
24h/24h : + 32 14 TION 2: Haza .1 Classification o	584545(BIG)(Tele rds identific f the substance	lephone advice: English, French, German, Dutch) Cetton e or mixture:
24h/24h : + 32 14 TION 2: Haza .1 Classification or 21.1 Classification a The classification	584545(BIG)(Tele rds identific f the substance ccording to Regulat of the mixture is no	lephane advice: English, French, German, Dutch) Ccetion e or mixture: ntion EC No 1272/2008 rtip twoluted according to CLP
24h/24h : +32 14 TION 2: Haza .1 Classification or 2.1.1 Gassification The classification Class	584545 (BIG) (Tele rds identific f the substance ccording to Regulat of the mixture is no Category	lephone advice: English, French, German, Dutch) Cetion 2 or mixture: teion EC No 1272/2008 of yet evoluated according to CLP Harard State ments
24h/24h : + 32 14 TION 2: Haza .1 Classification o 2.1.1 Classification The classification Class Fiam, Aerosol	584545 (BIG) (Tele rds identific f the substance ccording to Regulat of the misture is no Category category 1	lephone advice: English, French, German, Dutch) Cetion e or mixture: trion EC No 1272/2008 or yet revuluated according to LP Hazard starments H222: Extremely flamma ble a erosol.
24h/24h : +32 14 TION 2: Haza .1 Classification or 2.1.1 Gassification The classification Class	584545 (BIG) (Tele rds identific f the substance ccording to Regulat of the mixture is no Category	lephone advice: English, French, German, Dutch) Cetion 2 or mixture: teion EC No 1272/2008 of yet evoluated according to CLP Harard State ments
24h/24h : +32 14 TION 2: Haza .1 Classification of 2.1.1 Classification The classification Class Flam. Aerosol Carc.	584545 (BIG) (Tele rds identifit f the substance ccording to Regulat of the mixture is no Category 1 category 1 category 2	lephane advice: English, French, German, Dutch) Cotion con mixture: tion EC No 1272/2008 var waluated according to CLP Hazard stataments H222: Extremely flamma ble erocol. H351 Suggetted of custing cancer;
24h/24h : + 32 14 TION 2: Haza .1 Classification of 2.1.1 Classification The classification Class Fiam. Aerosol Carc. STOT RE	5845 45 (BIG) (Tele rds identific f the substance according to Regulat of the misture is no Category ategory 1 category 2 category 2	lephone advice: English, French, German, Dutch) Cation Cat
24h/24h : + 32 14 TION 2: Haza .1 Classification of 2.1.1 Classification The classification Class Flam. Aarasol Care. STOT RE Eye Irrit. STOT SE Skin Irrit.	5945 45 (BIG) (Tele rds identific f the substance ccording to Regulat category 1 category 2 category 2 category 2	lephane advice: English, French, German, Dutch) ccction cormóture: noin EC No 1272/2008 ot er mólutate Azard statements Azard stateme
24h/24h : + 32 14 TION 2: Haza .1 Classification of 2.1.1 Classification The classification Class Film. Aerosol Carc. STOT RE EVENTR. STOT SE	584545 (BIG) (Tele rds identified f the substance according to Regulat of the misture is no Category 1 category 2 category 2 category 2 category 2 category 3	lephone advice: English, French, German, Dutch) Cction control of the second se
24h/24h : + 32 14 TION 2: Haza .1 Classification of 2.1.1 Classification The classification Class Flam. Aarasol Care. STOT RE Eye Irrit. STOT SE Skin Irrit.	5945 45 (BIG) (Tele rds identified f the substance ccording to Regulat of the mixture is no Category category 1 category 2 category 2 category 2 category 3 category 2	lephane advice: English, French, German, Dutch) ccction cormóture: noin EC No 1272/2008 ot en molatine according to CLP learard statements 4222: Externe § Hamma bia earosol. 4323: Statements Itaments 4323: Caste advice advices concer. 4323: Caste advice advices to concer. 4325: States advice advices to concer. 4325: States advice advices to concer. 4325: States advices to concer. 4325: Castes advices to concert. 4335: Castes advices to concert. 433
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24h/24h : + 32 14 TION 2 : Hazza 1. Classification 0 2.1.1 Gassification The classification Class Flum. Assuspin Garc. STOT RE Eye Irrit. STOT RE Eye Irrit. Stor Set Skin Irrit. Regs. Sens. 2.1.2 Classification a Classified as dama Carc. Car. 3: PAO Fr. R12-Ext rem Xr, R863/738-17	5845 45 (BIG) (Tele rds identiif) fthe substance of the substance of the mixturising category category 1 category 2 category 2 category 2 category 2 category 2 category 2 category 1 category 2 category 2 category 1 category 1 category 2 category 2 category 2 category 2 category 1 category 1 category 1 category 1 category 1 category 1 category 2 category 2 category 1 category 1 category 1 category 1 category 1 category 1 category 1 category 1 category 2 category 1 category 1 category 2 category 1 category 1 category 1 category 2 category 1 category 1 category 1 category 2 category 1 category 1 category 2 category 2 category 1 category 1 category 2 category 1 category 1 category 1 category 1 category 2 category 1 category 1 ca	lephane advice: English, French, German, Dutch)
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24h/24h : + 32 14 TION 2 : Haza 1 Classification of 2.1.1 Gas fication a The classification of Class Flam. Aerosol Care. STOT RE Eye Irrit. STOT SE Skin Irrit. Rep. Sens. Skin Sens. 2.1.2 Gas fication a Classified as dan Care. Cat. 3, R40 Care. Cat. 3, R40 Care. Stat. Sens. 2.1.2 Care Sens. Skin Sens. 2.1.2 Care Sens. 2.1.2 Care Sens. Skin Sens. 2.1.2 Care S	5845 45 (BIG) (Tele rds identified f the substance eccording to Regulat of the misture is no Category ategory 1 category 2 category 2 category 2 category 2 category 2 category 2 category 2 category 2 category 3 category 1 category 2 category 3 category 4 category 4 categor	lephane advice: English, French, German, Dutch) Cation Catio

SAFETY DATA S	
according to 190	7/2006/EC as amended by 453/2010/EC
PC9b	Fillers, putties, plasters, modelling clay
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multi-
	stage and/ or significant contact)
PROC8a	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large con-
	tainers at non-dedicated facilities
PROC8b	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large con-
	tainers at dedicated facilities
PROC10	Roller application or brushing
PROC24	High (mechanical) energy work-up of substances bound in materials and/ or articles
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
ERC12a	Industrial processing of articles with abrasive techniques (low release)
ERC6d	Industrial use of process regulators for polymerisation processes in production of resins,
	rubbers, polymers
Glossary	
alossaly	
SU	Sector of use
PC	Product category
PROC	Process category
ERC	Environmental release category
AC	Article category
SDERC	Sector specific environmental release category (for ACEA uses)
ACEA	European automobile manufacturers association
AIRC	Federation of vehicle repair organisations
CEPE	European council of producers and importers of paints, printing inks and artists' colours
00	Operational condition
DOA	Duration of activity
LEV	Local exhaust ventilation
TRV	Technical room ventilation
RMM	Risk Management Measures
RPE	Respiratory protection equipment
DPE	Dermal protection equipment
WWTP	Waste water treatment plant (on-site)
STP	Sewage treatment plant (municipal)
SVHC	Substance of very high concern
LSI	Lead substance indicator
M(sperc)	Maximum volume of lead substance which can be used safely under conditions described
m(apero)	by CEPE spERC
DNEL	Derived No Effect Level
DMEL	Derived minimum effect level
PNEC	Predicted No Effect Concentration
ECETOC TRA	Targeted risk assessment as proposed by European center for ecotoxicology and toxicol-
LUCIUG INA	
RCR	ogy of chemicals Bisk characterisation ratio
nun	I NEK Characterisation fatto
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Axalta and Axalta Coat erns, LLC and all affilia	Ing Systems au trademarka or registered teademarks of Avaita Cosing Sys Here's Spise Hearemark, Perminyed Sy, Permandel Sy, Perminyed Systems, Pering Dates: 2014-07-22 sicily, Perminyed Sy, Permandel Sy, Perminyed Sy, Perminyed Systems, Pering Dates: 2014-07-22 sicily, Pering Dates: 2014-07-22 Hillingee, All rights reserved.

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SAFETY DATA SHEET

according to 1907/2006/EC as amended by 453/2010/EC

spERC x5 (solids)

works inside the exposure scenario boundaries

RCR(s) = RCR(o) * EMF(s)/EMF(o)

Misperci

Solids in dry film

Transfer to process

waste water

 PROC
 DOA
 LEV/TRV
 RPE
 DPE

 Sanding
 24
 > 4 h
 LEV Prof
 no
 yes level 2

4. Guidance to downstream user to evaluate whether he works inside the boundaries set by the exposure

DOA

Factor

0.6

0.2

Respiratory protec-

Factor

0,2

0,1 Level 2

0.05 Level 3

Level 1

Factor

0,1

0.05 Level 2

Level 1

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tion equipment

No RPE

Filter mask

Air-fed mask

RCR(s) = scaled risk characterisation ratio; RCR(o) = original risk characterisation ratio (in part 3)

1 - 4

Skin protection equipment

Resistant gloves, training

Resistant gloves, specific training

Above parameters represent standard (default) assumptions according to CEPE mapping of operational conditions Valid

Release

WWTP

100%

after on-site STP HECKER

Municipal

ves

XLII

Content | Content | DOA

% range

> 25

1-5

<1

5 - 25

Factor h

0.6

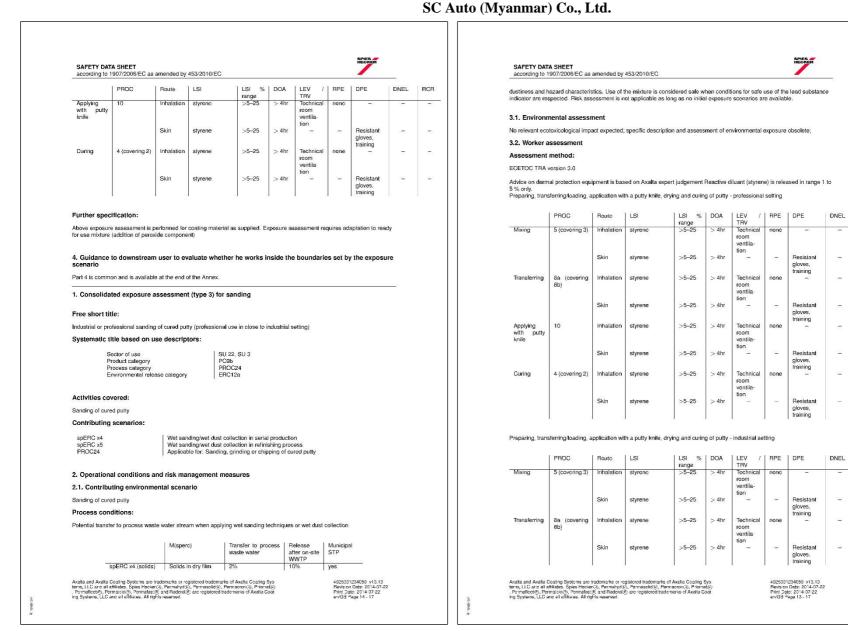
0.2 0.25-1

0.1 <0.25 0.1

No gloves

Suitable gloves

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XLIII

RCR

-

RCR

_

_

-

SC Auto (Myanmar) Co., Ltd.

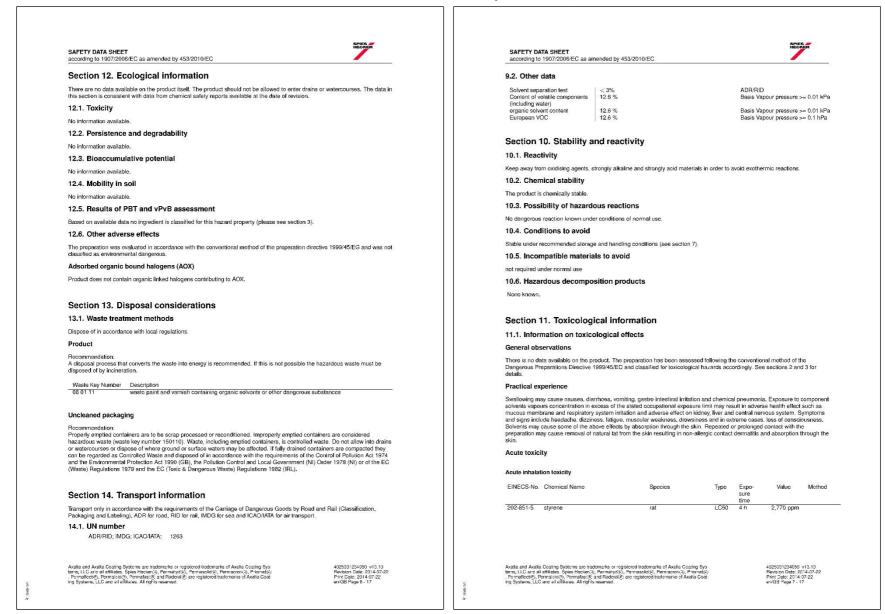
SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/20	10/EC	SAFETY DATA SHEET according to 1907/2008/EC as amended by 453/2010/EC
Annex - Exposure scenarios		Training advice
Consolidated exposure assessment for indu	strial and professional use of coating material	Directive 76/769/EC
The consolidated exposure assessment provides spe	cific information on how a hazardous substance (in a mixture) is to be	Directive 98/24/EC
environment. Compliance with operational conditions	ans of use, in order to ensure that a use is safe to humans and the and risk management measures is required if the exposure assessment is se, identified risk management measures are to be implemented unless the mine way.	Further information The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes
1. Consolidated exposure assessment (type		other than those opecified under section 1 without a written parmission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precultors. The information given in this SDS is to doesrobe the product orly in terms of health and safety requirements and should not.
Free short title:		therefore, be construed as guaranteeing specific properties.
	putty knife (professional use in close to industrial setting)	Report version
Systematic title based on use descriptors:		Version Changes
Sector of use Product category	SU 22, SU 3 PC9b	13.13 3, 8, 11, 16
Process category Environmental release category	PROC4 (covering PROC2), PROC5 (covering PROC3), PROC8a (covering PROC8b), PROC10 ERC4, ERC5, ERC6d	Revision Date: 2014-07-22
Activities covered:		
Preparing (adding activator), transferring/loading, app	lication of putty, drying and curing of putty	
Contributing scenarios:		
PROC5 (covering PROC3) Applicable for: A PROC8a (covering PROC8b) Transfer of subs	Drying and curing of coatings Adding of activation: adjustment of viscosity tance or preparation (charging/discharging) Application with a putty knile	
2. Operational conditions and risk managem	nent measures	
2.1. Contributing environmental scenario		
Preparing, transferring/loading, application with a put	y knife, drying and curing of putty	
Process conditions:		
No transfer to process waste water stream; specific a	ssessment of environmental exposure obsolete	
2.2. Contributing worker scenarios		
Preparing, transferring/loading, application with a put	y knife, drying and curing of putty	
Transferring 8a (co Applying with putty knife 10	DOA LEV/TRV RPE DPE overing 3) > 4 h TRV no yes fewol 2 overing 2b) > 4 h TRV no yes fewol 2 orning 2) > 4 h TRV no yes fewol 2 orning 2) > 4 h TRV no yes fewol 2	
Further specification:		
Above parameters represent standard (default) assur	nptions according to CEPE mapping of operational conditions Valid c formulation is provided in part 3. Deviation options are explained in part 4	
3. Exposure estimation and reference to its	source	
	te used chemicals in this preparation as provided by manufactuters and	
Exposure assessment bases on initial scenarios for the importers. Identification of a lead substance indicator	per reare to based on the of of the methodology, taking the account content,	

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SAFETY DATA SHEET according to 1907/2006/EC as amended	ay 453/2010/EC	SAFETY DATA SHEET according to 1907/2006/EC as amen	ded by 453/2010/EC	HECKEN
Section 15. Regulatory info	rmation	14.2. UN proper shipping nat	me	
15.1. Safety, health and environ mixture	nental regulations/legislation specific for the substance or	ADR/RID; IMDG; ICAO/IATA:	PAINT	
National legislation		14.3. Transport hazard class	(es)	
This safety datashoot has been propared a	ccording to British logislation.	Hazard class		
amended (CHIP Regulations). The risk as	micals (Hazard Information and Packaging for Supply) Regulations 2002 as ociated with the use of this product must be assessed in accordance with the Control H) Regulations and the Dangerous Substances and Explosive Atmospheres	ADR/RID; IMDG; ICAO/IATA: Subsidiary hazard class	3	
Restricted to professional users.		ADR/RID; IMDG: ICAO/IATA:	Not applicable.	
15.2. Chemical Safety Assessm	ent	Labels		
No safety checks were carried out on the n	ixture.	Labers	•	
Section 16. Other informat	on			
Full text of R phrases with no. appearing in	section 3	Tunnel restriction code		
R10 Flammable.		ADR/RID:	D/E	
R20 Harmful by in	natation. es, respiratory system and skin.	Special Provisions		
R48/20 Harmful: dan	es, respiratory system and shin. jer of serious damage to health by prolonged exposure through inhalation. cause lung damage if swallowed.	ADR/RID:	640E	
Heb Harmiu: maj	cause lung damage il swallowed.	2443010322322250		
Full text of H phrases with no. appearing in	section 3	Kemler Code		
		ADR/RID:	30	
H226 Flammable li H304 May be fatal	uid and vapour. swallowed and enters airways.	Hazchem Code		
H315 Causes skin		ADR/RID:	3Y	
H332 Harmful if int H335 May cause re	aled. spiratory irritation.			
H372 Causes dam	ge to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous sys- rolonged or repeated exposure if swallowed.	EmS IMDG:		
(on though		IMDG:	F-E,S-E	
Information taken from reference w	orks and the literature.	14.4. Packaging group		
Substance No.	CAS no: www.cas.org/EO/rogsys.html	ADR/RID; IMDG; ICAO/IATA:	III	
	EC no: http://ecb.jrc.it/esis/index.php?PGM_ein	14.5. Environmental hazards		
Substances presenting a health or env mental hazard within the meaning of Dire	ron- http://ecb.jrc.it/existing.chemicals/ tive http://ecb.jrc.it/classification-labelling/	ADR/RID; IMDG; ICAO/IATA:		
67/548/EEC.	http://toxnet.nlm.nih.gov/cgi-bin/sis/htm/gen?HSDB http://twww.cdc.gov/niosh/ipcs/cistart.html			
	The parameters gow most position and the second s	Marine pollutant		
Other directives, limitations and prohib regulations	tory Directive 76/769/EC Directive 98/24/EC	IMDG:	na	
regionations	Directive 90/394/EC Directive 793/93/EC	14.6. Special precautions for	liser	
	Directive 1999/45/EC Directive 2006/6/EC			
	EUR-LEX: http://europa.eu.int/eur-lex/lex	please see section 6 - 8		he IBC Code
Exposure limit for the pure substance	http://osha.europa.eu/OSHA	14.7. Transport in bulk accor	ding to Annex II of MARPOL 73/78 and t	ne IBC Code
		Deliveries shall only be made based o	n appropriate packaging and in compliance with traffic	aws.
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SAFETY DATA SHEET according to 1907/2006/EC as	amended by 453/2010/EC	SPIES	SAFETY DATA : according to 190	SHEET 07/2006/EC as amended by 453/2	2010/EC				SPIES HECKER
	ove material Glove thickness Break through trile rubber 0.33 mm 60 min	time	7.2. Condition	ns for safe storage, includ	ding any incomp	oatibilitie	B		
			Requirements f	for storage areas and contai	iners				
compatibility, and anti-static prop group 3 (e.g. Dermatrik⊛ glove) i product is not avoidable (e.g. mai occur to materials specified in se use with this product and the per these can easily damage the glov	hecked in each case for their work specific suitability (e.g. ortics). When the intended use is for spray application at is to be used. Alter contamination, the glove has to be ch- intenance work) a butly or fluorocarbon rubber glove show coin 3 of this 505, achive showld be sought from the glo- meation breakthrough times. Carle should be taken when we sand make them ineffective. The instructions and inforn dr optacement must be followed. Damaged gloves or these	intrile gives of the chemical resistance anged. If immersing the hands into the lid be used. When skin exposure may ve supplier as to appropriate type to working with sharp edged articles as mation provided by the glove supplier	direct sunlight. No upright to prevent Explosive Atmospi they are kept in a requirements of th Advice on com	na series de la series a ser	access. Containers w this product is subjec to 250 litres of such fl quantitics must bo k s contained in the HS	hich are op t to the requ ammable lic opt in a sop E ACOP L1	ened must l uirements o juids may b arato storer 35, "Storag	be carefully resea f the Dangerous se stored in a wor com conforming	aled and kept Substances ar k area provide to the structur
				from oxidizing agents and strongly					
Eye protection Wear protective eyewear for prote	ection against solvent spatter.			ther with explosives, gases, exidizi s, infectious products and radioacti		rhich form fl	ammable g	ases in contact w	rith water,
Skin and body protection			7.3. Specific e	end use(s)					
	. Personnel should wear antistatic clothings made of nature	ral fiber or of high temperature	Please see exposi	sure scenarios as given in the anne	ex.				
Hygiene measures			Section 8. I	Exposure controls/pe	ersonal protec	ction			
Wash skin thoroughly with soap a	and water or use recognized skin cleanser. Do not use or	ganic solvents!	8.1. Control p	parameters					
Environmental exposure co	ntrols		DNEL						
Do not let product enter drains. F	or ecological information refer to section 12.		No information ava	-Nebte 1					
			Ref CALLED AND SOLUTION CONTROL OF CONTROL O	anadie.					
Section 9 Physical a	and chemical properties		PNEC						
10	20 23		No information ava						
	physical and chemical properties		Community / na	ational occupational exposu	ure limits				
Appearance			CAS-No.	Chemical Name	-	Time	Туре	Value	Note
Form: liquid Colour: brown Odd	ur: Odour is not perceptible.		100-42-5	styrene	Source	15 min	STEL	1,080 mg/m3	
Important health, safety and	d environmental information		And a construction of the			15 min	STEL	250 ppm	
Property	Value	Method				10000000			
pH	pH cannot be measured due to less solubility in wa- ter					8 hr	TWA	430 mg/m3	
Melting point/freezing point Boiling point/boiling range	Not applicable. 145 °C					8 hr	TWA	100 ppm	
Flash point	32 °C	DIN 53213/ISO 1523							
Evapouration rate Flammability (solid, gas)	Slower than Ether not relevant as product is liquid								
Lower explosion limit	no data available		8.2. Exposure	e controls					
Upper explosion limit Vapour pressure	no data available 0.7 hPa		254.0248 1090 2	hnical information on the pla	ent				
Vapour density Relative density	no data available 1.87 g/cm ³	20 °C - DIN 53217/ISO 2811							
Solubility(ies)	ALL-MARCE EARLINES	20 6 9 010 332 17/30 2011	Provide adequate local exhaust vent	e ventilation. This should be achiev tilation. If these are not sufficient to	ved by a good genera o maintain concentra	l extraction tions of part	and -it prac iculates an	tically feasible- by d solvent vapour	y the use of a below the OEI
Water solubility Solubility in other solvents	partly miscible miscible with most organic solvents Listed in: Section		suitable respirator	ry protection must be worn. Mask	with gas filter, type #	4 (EN 141)			
Partition coefficient:	 Composition/information on ingredients This product is a mixture. For ingredient details see 		Protective equi	ipment					
n-octanol/water	section 12	NAME AND ADDRESS OF ADDRESS ADDRESS OF ADDRESS OF ADDRE	Personal protective	ve equipment should be worn to pr	revent contact with ey	ves, skin or o	dothing.		
Auto-ignition temperature	490 °C	DIN 51794 based on organic solvent contont	Respiratory pro	otection					
	This product is a mixture. For further information see section 10.		When workers are	e facing concentrations above the	exposure limit they m	iust uso app	ropriate ce	rtified respirators	
Decomposition temperature	>100 s Not explosive	ISO 2431 - 1993 6 mm	Hand protection	n					
Viscosity (23 °C)	Not explosive		The breakthrough substances in the	n time of gloves is unknown for the preparation.	product itself. The g	love materia	l given is re	ecommended on I	basis of the
	not oxidizing								
Viscosity (23 °C/) Explosive properties Oxidizing properties	not oxidizing radomarke or registered trademarke of Avaite Coasing Sys (3), Permatyrds), Permacion(3), Prioratij) (5) and Raderal(2) are registered trademarke of Avaita Coast Interseared	4025331234050 y13.13 Revis on Date: 2014-07-22	Axalta and Axalta Coa	ating Systems are trademarks or registeror listes. Spies Heoker(9, Permatyd 9), Perm Joic(9, Permatas(9) and Radoral(9) are re all affiliales. All rights reserved.	d trademarks of Axaita Co nasolid (i), Permacronoliti	ating Sys Priomatics		Bevis na D	94050 v13.13 ate: 2014-07-22 2014-07-22 je 5 - 17

SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC	SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC	SPIES
xtinguishing media which shall not be used for safety reasons		
igh volume water jet	CAS 100 42 5 styrene EC 202-851-5 REACh 01-2119457861-32	10.00 - < 12.50 %
.2. Special hazards arising from the substance or mixture	Classification R10; Xn: R20; Xi: R36/37/38; Xn: R48/20; Xn: R65; Nota	D
azardous combustion products	Substances presenting a health or environmental hazard within the meaning of	Regulation (EC) No 1272/2008
ire will produce dense black smoke containing hazardous combustion products. Exposure to decomposition products may be a azard to health.	CAS 100-42-5 styrrene EC 202-481-5 REACh 01-2119457861-32	10.00 - < 12.50 %
azardous decomposition products	Classification Flam. Liq. 3. H226; Asp. Tox. 1, H304; Skin Init. 2, H315	Eye Irrit. 2, H319;
Then exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, noke, oxides of nitrogen.	Acute Tox: 4, H332; STOT SE 3, H335; STOT RE 1, H372	
3. Advice for firefighters	Up to the given revision date of this safety data sheet only the above mentioned REAC chemical substances used in this mixture.	h registration numbers are assigned to the
ire and Explosion Hazards	Additional advice	
lammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier an air and may sproad along floors.	See full text of R-phrases in chapter 16. Soc full text of H-phrases in chapter 16.	
pecial Protective Equipment and Fire Fighting Procedures		
Aar as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire lighting if necessary. In se event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.	Section 4. First aid measures	
	4.1. Description of first aid measures	
ection 6. Accidental release measures	General advice	
1. Personal precautions, protective equipment and emergency procedures	When symptoms persist or in all cases of doubt seek medical advice. Never give anyth	ing by mouth to an unconscious person.
eep in a well-ventilated place. Keep away from sources of ignition. Do not inhale vapours.	Inhalation	
.2. Environmental precautions or not let product onter drains. Notify the respective authorities in accordance with local law in the case of contamination of vers, lakes or waste water systems. Please avoid any emission of volatile organic compounds as possible.	Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of stopped, administer artificial respiration. If unconscious place in recovery position and call a physician.	
3. Methods and materials for containment and cleaning up	Skin contact	
ontain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and ace in container for discosal according to local regulations. Clean preferably with a detergent; avoid use of solvents.	Do NOT use solvents or thinners. Take off all contaminated clothing immediately.	
.4. Reference to other sections	Eye contact	
omply with salety directives (see chapters 7 and 8).	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minut medical advice.	es, holding the eyelids apart. Seek
	Ingestion	
ection 7. Handling and storage	If swallowed, seek medical advice immediately and show this container or label. Do N	(E) (E)
1. Precautions for safe handling	4.2. Most important symptoms and effects, both acute and delay	red
afe handling advice	Please see practical experience in section 11.	1000-0.000-000-000-000-000-000-000-000-0
revent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the ccupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition ave been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container another. Operators should war antistatic fordware and clothing. No sparking tools should be used. Avoid skin and eye	4.3. Indication of any immediate medical attention and special to If unconscious place in recovery position and seek medical advice.	eatment needed
anotes: Operators a notify war an association to the and the provided and the prohibited in the application area. For match. Do not breather vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. For restonal protection see section 8. Comply with the health and safety at work laws. It material is a coating, do not sand, flame 1, braze or weld dry coating without an appropriate respirator or appropriate verticalities.	Section 5. Firefighting measures	
dvice on protection against fire and explosion	5.1. Extinguishing media	
olvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use	Suitable extinguishing media	
essure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one. ne accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe microi of waste materials will minimize the risks of spontaneous combustion and other fire hazards.	Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spr	ay.
kalta and Avalta Coasing Systems are trademarks or registered trademarks of Avalta Coasing Sys 4025331234050 v13.13	Axalia and Axalia Coaing Systems are trademarks or registered trademarks of Axalia Coaing Sys	4025331234050 v13.13

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SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHE according to 1907/20	ET 1006/EC as amended by 453/2010/EC	SAFETY DATA SHEET according to 1907/2006/EC as amended b	y 453/2010/EC
Contains s	styrene.	Section 1. Identification of t company/undertaking	he substance/mixture and of the
		1.1. Product identifier	
R-phrase(s) R10 F	Flammable	Product name	Raderal
	Harmful: danger of serious damage to health by prolonged exposure through inhalation.		IR Premium Spachtel 2035
		Product code	4025331234050
	Do not breathe vapour.		e substance or mixture and uses advised against
S38 I	In case of insufficient ventilation, wear suitable respiratory equipment.	Identified uses	Heline of the European Observed Assess
I shalling accordin	ng to Regulation (EC) No 1272/2008.	based on use descriptor system given by gu Sector of use	SU 3, SU 22
	al word of the product	Product category Further information see chapter Exposure s	PC9b senario
$\wedge \wedge$			essional use, not for any private consumer use.
		1.3. Details of the supplier of the Company/Undertaking Identification	Survey wild Sheet
Signal word: Danger		Producor/Supplier	Axalta Coating Systems Gormany GmbH
Construction of the second s	ents which must be listed on the label	Street/Box NatCode/Postal code/City	Horbeiler Str. 15 DE 50858 Köln
Contains	styrene	Telephone	+49(0) 2234 6019-01
Hazard statements		Information on SDS	
H226 H315	Flammable liquid and vapour. Causes skin irritation.	Responsible Department Telephone	Regulatory Affairs +49 (0)202 529-2385
H319	Causes serious eye irritation.	Teletax	+49 (0)202 529-2804
H372	Causes damage to organs through prolonged or repeated exposure.	1.4. Emergency telephone	
Precautionary stater	ments	Emergency telephone number of manu- facturer	+44 (0)845 600-6640
P210 P260	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.	For further information, please also	consult our internet site
P280 P314	Wear protective gloves/protective cloves/protection/face protection. Get medical advice/ attention if you feel unwell.	http://www.spieshecker.com	
P337 + P313 P403 + P235	Il eye irriation persists del medical advice/ attention. Store in a well-ventilated place. Keep cool.		
1400 41 200		Section 2. Hazards identific	ation
2.3. Other hazar	ds	The product is classified as dangerous in ac	cordance with Directive 1999/45/EC.
	no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no to be very persistent nor very bioaccumulating (vPvB).	2.1. Classification of the substan	cordance with Regulation (EC) No. 1272/2008.
Restricted to profession		Classification of the mixture	
		According to European Directive 1999/45	EC as amended.
Section 3. Co	mposition/information on ingredients	Classification : Harmful; Flammable;	of serious damage to health by prolonged exposure through inhalation.
3.1. Substances		According to Regulation (EC) No 1272/20	08
This product is a mixt	ure. Health hazard information is based on its components.	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye I	mit. 2, H319; STOT RE 1, H372;
3.2. Mixtures		2.2. Label elements Labelling according to European Dir	
Chemical characte	erization	• • · ·	20100 1999/45/EC.
Mixture of synthetic re	ssins, pigments, and solvents	Symbol and indication of hazard.	
Hazardous compo		Xn Harmful	
Substances present	ing a health or environmental hazard within the meaning of Directive 67/548/EEC.		
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SC Auto	(Myanmar)	Co., Ltd.
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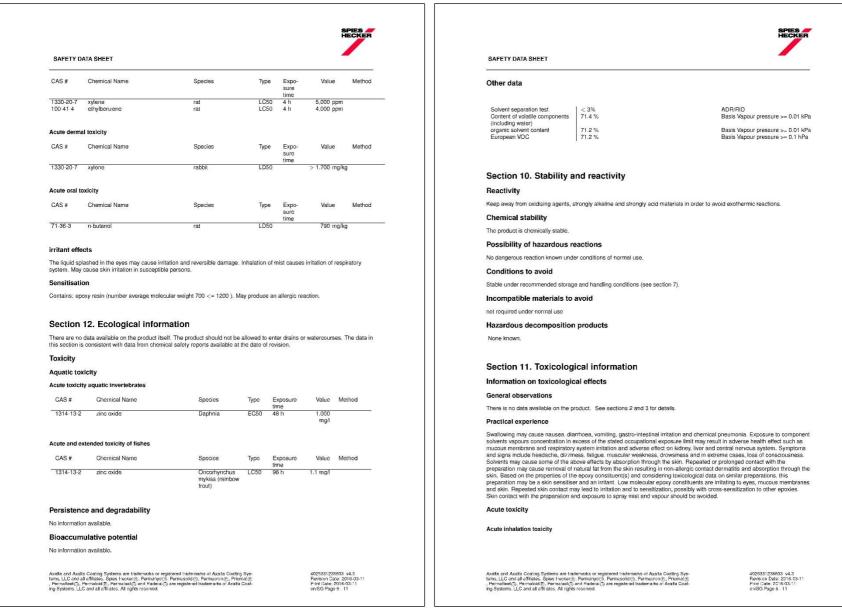
SAFETY DATA SHEET	_	SAFETY DATA SHEET		
EmS		Mobility in soil		
IMDG:	F-E,S-E	No information available.		
Packaging group		Section 13. Disposal considera	tions	
SS 586:Part 1: 2014; IMDG; ICAO/IATA:	ш	Waste treatment methods	10113	
Environmental hazards		Dispose of in accordance with local regulations.		
SS 586:Part 1: 2014; IMDG; ICAO/IATA:	yes 🔦	Product		
		Recommendation: A disposal process that converts the waste into en disposed of by incineration.	ergy is recommended. If this is not possible t	the hazardous waste must
Marine pollutant		Uncleaned packaging		
IMDG:	yes [zinc oxide]	Recommendation: Properly emptied containers are to be scrap proce	ssed or reconditioned.	
Special precautions for user		Section 14. Transport informati	on	
please see section 6 - 8		Transport only in accordance with the requirement	s of the Carriage of Dangerous Goods by Ro	ad and Rail (Classification
Transport in bulk according to Anne:	x II of MARPOL 73/78 and the IBC Code	Packaging and Labeling), ADR for road, RID for ra	II, IMDG for sea and ICAO/IATA for air transp	ort.
Deliveries shall only be made based on appropria	ate packaging and in compliance with traffic laws.	UN number SS 586:Part 1: 2014; IMDG; ICAO/IATA:	1263	
Section 15. Regulatory information	ntion	UN proper shipping name		
	ulations/legislation specific for the substance or mixture	SS 586:Part 1: 2014; IMDG; ICAO/IATA:	PAINT	
Restricted to professional users.		Transport hazard class(es)		
Chemical Safety Assessment				
No satety checks were carried out on the mixture		Hazard class SS 586:Part 1: 2014; IMDG; ICAO/IATA:	0	
Left.		55 586(Part 1: 2014) IMDG; ICAO/IATA:	3	
Section 16. Other information		Subsidiary hazard class		
Revision Note		SS 586:Part 1: 2014; IMDG; ICAO/IATA:	Not applicable.	
	Version Changes 4.3 2, 5, 9	Labels		
	Revision Date: 2018-03-11 B11973494		٢	
The information provided in this Safety Data She	et is correct to the best of our knowledge, information and belief at the date of	Special Provisions		
disposal and release and is not to be considered	only as a guidance for safe handling, use, processing, storage, transportation, a warranty or quality specification. The above information relates only to the	SS 586:Part 1: 2014:	640E	
specific material(s) designated herein and may n in any process or if the material is altered or proc	ot be valid for such material(s) used in combination with any other materials or	Sector and Edge	-10-	
Attention in medical use: Avoid medical use acco	mpanying permanent implant in human body.	Hazchem Code		
		SS 586:Part 1: 2014:	3Y	
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Green Myanmar Environmental Services Co., Ltd.

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Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



SC Auto (Myanmar) Co., Ltd.

Green Myanmar Environmental Services Co., Ltd.

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SC Auto (Myanmar) Co., Ltd.

		HECKER						SPIES
SAFETY DATA SHEET		-	SAFETY DAT	A SHEET				
Chemical Name	Glove material Glove	e thickness Break through time	CAS-No.	Chemical Name	Tim	е Туре	Value	Note
	Viton (R) ⁽³⁾ 0.7 n	nm 480 min	5		Source	ŠTEL	150 ppm	
			1330-20-7	xylono	ACGIH 15 r	nin STEL	150 ppm	
compatibility, and anti-static proj	checked in each case for their work specific suitability perties). When the intended use is for spray application	n a nitrile glove of the chemical resistance			8 hr	TWA	100 ppm	
product is not avoidable (e.g. ma	is to be used. After contamination, the glove has to b aintenance work) a butyl or fluorocarbon rubber glove	should be used. When skin exposure may			Singapore	TWA	100 ppm	
use with this product and the pe	ection 3 of this SDS, advice should be sought from the rmeation breakthrough times. Care should be taken w	when working with sharp edged articles as				STEL	651 mg/m3	
these can easily damage the glo	oves and make them ineffective. The instructions and nd replacement must be followed. Damaged gloves or	information provided by the glove supplier				TWA	434 mg/m3	
replaced immediately.						STEL	150 ppm	
Eye protection			100-41-4	ethylbenzene	ACGIH 8 hr	TWA	20 ppm	
Wear protective eyewear for pro	lection against solvent spatter.		enegetted?34 40	vicinaliza a distributi de la construcción de la c	Singapore	TWA	100 ppm	
Skin and body protection						STEL	543 mg/m3	
Wear suitable protective clothing resistant synthetic fiber.	g. Personnel should wear antistatic clothings made of	natural fiber or of high temperature				TWA	434 mg/m3	
Hygiene measures						STEL	125 ppm	
0.5	and water or use recognized skin cleanser. Do not us	e organic solvents	14807-96-6	Talc (Mg3H2(SiO3)4)	ACGIH 8 hr	TWA	2 mg/m3	Respirab
Environmental exposure c		a guine contente.	14007-30-0	Tale (Mgariz(aloaj4)	AGGIN DI	1008	z mymia	Dust
	For ecological information refer to section 12.				Singapore	TWA	2 mg/m3	
	and chemical properties ysical and chemical properties		Exposure c		ant			
Information on basic ph Appearance	vsical and chemical properties		Additional te	chnical information on the pla te ventilation. This should be achiev	ved by a good general extrac	tion and -if pract	ically feasible- by	the use of a
Information on basic ph Appearance Form: liquid; Colour: yellow; C			Additional te Provide adequa local exhaust ve	chnical information on the pla	ved by a good general extrac to maintain concentrations of	particulates and	ically feasible- by I solvent vapour l	the use of a below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety ar	vsical and chemical properties Mour: Odour is not perceptible; Ind environmental information	Method	Additional te Provide adequa local exhaust ve	chnical information on the pla te ventilation. This should be achiev ntilation. If these are not sufficient t ory protection must be worn. Mask	ved by a good general extrac to maintain concentrations of	particulates and	ically feasible- by solvent vapour l	r the use of a below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety an Property pH	ysical and chemical properties dour: Odour is not perceptible.; nd environmental information	Method	Additional te Provide adequa local exhaust ve suitable respirat Protective eq	chnical information on the pla te ventilation. This should be achiev ntilation. If these are not sufficient t ory protection must be worn. Mask	ved by a good general extract to maintain concentrations of k with gas filter, type A (EN 1	particulates and 41)	ically feasible- by solvent vapour l	r the use of a below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety an Property PH Moting point/freezing point Boiling point/freezing point	vsical and chemical properties vdour: Odour is not perceptible.; nd environmental information Value Ino data available Not applicable. 97 °C		Additional te Provide adequa local exhaust ve suitable respirat Protective eq	chnical information on the pla te ventilation. This should be achieventilation. If these are not sufficient to ory protection must be worn. Mask ulpment tive equipment should be worn to pr	ved by a good general extract to maintain concentrations of k with gas filter, type A (EN 1	particulates and 41)	ically feasible- by I solvent vapour i	r the use of a below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety ar Property PH Moting point/freezing point Baling pointbolling range Flash point Evapouration rate	vsical and chemical properties	Method DIN 58213/ISO 1523	Additional te Provide adequa local oxhaust ve suitable respirat Protective eq Personal protec Respiratory p	chnical information on the pla te ventilation. This should be achieventilation. If these are not sufficient to ory protection must be worn. Mask ulpment tive equipment should be worn to pr	ved by a good general extrac to maintain concentrations of k with gas filter, type A (EN 1 revent contact with eyes, skil	particulates and 41) n or clothing.	i solvent vapour 1	below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety ar Property PH Moting point/freezing point Baling pointboling range Flash point Evapouration rate Flammability (solid, gas) Lower explosion limit	ysical and chemical properties Mour: Odour is not perceptible.; hd environmental information Value Not applicable. 97 ℃ 28 ℃ Slowor than Ether not relevant as product is liquid 1.2 wol% based on organic solvent content		Additional te Provide adequa local exhausty e suitable respirat Protective eq Personal protect Respiratory p When workers a Hand protect	chnical information on the pla te ventilation. This should be achieven ntilation. If these are not sufficient to ory protection must be worn. Mask ulpment two equipment should be worn to pro- protection tre facing concentrations above the ion	ved by a good general extract to maintain concentrations of k with gas filler. type A (EN 1 revent contact with eyes, skii exposure limit they must use	particulates and 41} n or clothing. appropriate cer	l solvent vapour l	below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety ar Property PH Moting point/freezing point Bailing point/freezing point Evapouration rate Flasmability (solid, gas) Lower explosion limit Uppor explosion limit Uppor explosion limit	vsical and chemical properties vdour: Odour is not perceptible.; denvironmental information Value no data available Not applicable. 97 °C 26 °C Slowor than Ether not relevant as product is liquid 1.2 vol. ⁺ % based on organic solvent content 13.7 vol. ⁺ % based on organic solvent content 9.1 hPa		Additional te Provide adequa local exhausi ve suitable respiral Protective eq Personal protec Respiratory p When workers a Hand protect The breaktroou	chnical information on the pla te ventilation. This should be achiev- niliation. If these are not sufficient to ory protection must be worn. Mask ulpment tive equipment should be worn to pr protection tratacing concentrations above the lon and the of gloves is unknown for the	ved by a good general extract to maintain concentrations of k with gas filter, type A (EN 1 revent contact with eyes, skii exposure limit they must use	particulates and 41} n or clothing. appropriate cer	l solvent vapour l	below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety ar Property PH Meiting point/freezing point Bailing point/freezing point Evapouration rate Flarmability (solid, gas) Lower explosion limit Uppor oxplosion limit Uppor oxplosion limit Vapour density Relative donsity	ysical and chemical properties Mour: Odour is not perceptible; ; de environmental information Value no data available Not applicable. 97 °C 28 °C Slowor than Ether not relevant as product is liquid 1.2 vol-% based on organic solvent content 13.7 vol % based on organic solvent content		Additional te Provide adequa local exhaust ve suitable respiral Protective eq Personal protec Respiratory I When workers : Hand protect The breakthrou- substances in th	chnical information on the pla te ventilation. This should be achiev- ntilation. If these are not sufficient to ory protection must be worn. Mask ulpment votection votection are facing concentrations above the lon gh time of gloves is unknown for the re preparation.	ved by a good general extract to maintain concontrations of k with gas filter. type A (EN 1 revent contact with eyes, skil exposure limit they must use a product itself. The glove ma	particulates and 41) a or clothing. appropriate cer terial given is rea	l solvent vapour i tified respirators. commended on b	below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety ar Property PH Melting point/freezing point Baling point/freezing point Baling point/freezing point Evapouration rate Flarmability (solid, gas) Lower explosion limit Uppor explosion limit Uppor explosion limit Uppor explosion limit Vapour density Foldative donsity Solubility(lies) Water solubility	ysical and chemical properties Adour: Odour is not perceptible.; Id environmental information Value Not applicable. 97 *C 26 *C Slowor than Ether not relevant as product is liquid 1.2 vol.% based on organic solvent content 13.7 vol.% based on organic solvent content 9.1 hPa n data available 0.98 g/cm ³ appreciable	DIN 53213/ISO 1523 20 ° C - DIN 53217/ISO 2811	Additional te Provide adequa local exhausi ve suitable respiral Protective eq Personal protec Respiratory p When workers a Hand protect The breaktroou	chnical information on the pla te ventilation. This should be achiev militation. If these are not sufficient it ory protection must be worn. Mask ulpment tive equipment should be worn to pr protection ure facing concentrations above the lon ghtime of gloves is unknown for the re preparation. Name	ved by a good general extract to maintain concentrations of k with gas filter, type A (EN 1 revent contact with eyes, skii exposure limit they must use	particulates and 41) a or clothing. appropriate cer terial given is rea	l solvent vapour l	below the OE
Information on basic ph Appearance Form: liquid; Colour: yellow; C Important health, safety ar Property PH Melting point/freezing point Boiling point/freezing point Boiling point/freezing point Evapouration rate Flasmability (colid, gas) Lower explosion limit Uppor explosion limit Uppor explosion limit Uppor explosion limit Vapour density Foldative donsity Solubility(lies) Solubility(lies)	ysical and chemical properties Adour: Odour is not perceptible.; Id environmental information Value Not applicable Not applicable Yarve 28 °C Slowor than Ether not relevant as product is liquid 1.2 vol% based on organic solvent content 13.7 vol% based on organic solvent content 9.1 hPa no data available 0.98 g/cm ³ appreciable misoble with most organic solvents Listed in: See S. Composition/information on ingredients	DIN 53213/ISO 1523 20 °C - DIN 53217/ISO 2811	Additional te Provide adequa local oxhausty suitable respirat Protective ed Personal protec Respiratory y When workers a Hand protect The breakthrou substancos in th	chnical information on the pla te ventilation. This should be achiev militation. If these are not sufficient it ory protection must be worn. Mask ulpment tive equipment should be worn to pr protection ure facing concentrations above the lon ghtime of gloves is unknown for the re preparation. Name	ved by a good general extract to maintain concontrations of k with gas filter. type A (EN 1 revent contact with eyes, skill exposure limit they must use a product itself. The glove ma Glove material	particulates and 41) a or clothing. appropriate cer terial given is rer Glove thickness	I solvent vapour i tilled respirators. commended on b	below the OE
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SAFETY DAT	A SHEET				HECKER	SAFETY DATA SHEET
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	ommon storage					Hazardous decomposition products
	ly from oxidizing agents and strongly a					When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide smoke, oxides of nitrogen.
	gether with explosives, gases, oxidizin cts, infectious products and radioactive		ammable g	jases in contact w	ith water.	Advice for firefighters
						Fire and Explosion Hazards
	. Exposure controls/per history of skin sensitisation problems	-				Flammable liquid and vapour. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours heavier than air and may spread along floors.
employed in an	y process in which this mixture is bein	g used.	recurrent	respiratory diseas	e snould hat be	Special Protective Equipment and Fire Fighting Procedures
Control par	ameters					Wear as appropriate: Full protective flameproof dothing. Wear self contained breathing apparatus for fire lighting if necessar the event of fire, cool tanks with water spray. Do not allow run-off from fire flighting to enter drains or water courses.
National occ	upational exposure limits					
	Ls (Workplace Safety and Health (Ger posure Limits of Toxic Substances, Fel		006 (S 134	/2006), First Scho	idulo:	Section 6. Accidental release measures
						Personal precautions, protective equipment and emergency procedures
CAS-No.	Chemical Name	Time Source	Туре	Value	Note	Keep in a well-ventilated place. Keep away from sources of ignition. Do not inhale vapours.
71-23-8	propan-1-ol	ACGIH 8 hr	TWA	100 ppm		Environmental precautions
		Singapore	TWA STEL	200 ppm 614 mg/m3		Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems. Please avoid any emission of volatile organic compounds as possible.
			TWA	492 mg/m3		Methods and materials for containment and cleaning up
			STEL	250 ppm		Contain and collect spillage with non-combustible absorbent materials. e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.
123-86-4	n-butyl acetate	ACGIH 15 min	STEL	200 ppm		Reference to other sections
		8 hr	TWA	150 ppm		Comply with safety directives (see chapters 7 and 8).
		Singapore	TWA	150 ppm		
			STEL	950 mg/m3		Section 7. Handling and storage
			TWA	713 mg/m3		Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should no
			STEL	200 ppm		employed in any process in which this mixture is being used.
71-36-3	n-butanol	ACGIH 8 hr	TWA	20 ppm		Precautions for safe handling
		Singapore	STEL	152 mg/m3		Safe handling advice
			STEL	50 ppm		Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignit
1314-13-2	zinc oxide	ACGIH 15 min	STEL	10 mg/m3	Respirable Dust	have been excluded. Preparation may charge electrostatically: aways use grounded leads when transferring from one conte to another. Operators should wear antistatic lootwear and odhing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. Fo
		8 hr	TWA	2 mg/m3	Respirable Dust	personal protection see section 8. Comply with the health and safety at work laws. If material is a coaling, do not sand, flam cut, braze or weld dry coaling without an appropriate respirator or appropriate ventilation, and gloves.
		Singapore	TWA	10 mg/m3		Advice on protection against fire and explosion
107-98-2	1-methoxy-2-propanol	ACGIH 15 min	STEL	150 ppm		Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original r
		8 hr	TWA	100 ppm		Conditions for safe storage, including any incompatibilities
		Singapore	TWA	100 ppm		Requirements for storage areas and containers
			STEL	553 mg/m3		Requirements for storage areas and containers Observe label precautions. Refer to Technical Data Sheet (TDS) for further information about storage temperature. Store in
			TWA	369 mg/m3		Conserve ladel predications. Heller to lectrinical bala Sheet (LOS) or further imormation adduct sociate entriperature, store in dry, well ventilated place away from sources of heat, ignition and direct sublight. No smoking, Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
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SAFETY DATA SHEET	SAFETY DATA SHEET
Section 4. First aid measures	
Eye contact	Precautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking.
Pernove contact lenses. Irrigate copicusly with clean, fresh water for at least 15 minutes, holding the cyclids apart. Seek medical advice.	Precaduloriary statements Reep arway from manaspansa yopen maintestroit sumades - into sindoxing. Groundbond container and recoving oquiprinent. Use explasion-proof electrical/ventilating/lighting equipment. Use only non-spatiking tools.
Skin contact	Tako procautionary measures against static discharge. Avoid breathing dust/vapours/ spray.
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.	Viola Deaming data vaputa s para. Use only outdoors or in a well-verificitated area. Contaminated work clothing should not be allowed out of the workplace. Avoid releases to the environment.
Inhalation	Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plonty of soap and water.
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped: administer artificial rospiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.	IF ON SKIN (or hair): Femove? Take off immediately all contaminated cloth with water is hower. IF INHALED: Remove person to fresh air and keep comfortable for breathing IF INHALED: Remove person to fresh air and keep comfortable. Remove co
Ingestion	present and easy to do. Continue rinsing. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physicia
If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vomiting. Keep at rest.	The explosed of in you need online. Call at POISOV or POIT on of dooling in private Specific freatment (see supplemental lifest aid instructions on this latel). If skin irritation persists: Get medical advice/attention.
Most Important Symptoms/effects, acute and delayed	n eyer innexion per also. See Mendon and the assessment Take off contaminated citating and wash boltrer cuse. Collect spillage. Store in a well-ventilated place. Keep container tightly closed.
Inhalation	Store locked up. Dispose of contents/container in accordance with local regulations.
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overerposure to solvents with permanent brain and nervous system damage.	раризе и силетнасолналет по ассолалсе или поса гединають.
Ingestion	Other hazards which do not result in classification
May result in gastrointestinal distress.	Contains epoxy constituents. See information supplied by the manufacturer.
Skin or eye contact	
May cause initiation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.	Section 3. Composition/information on ingredients
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and	Chemical nature
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.	Chemical nature Mixture of synthetic resins, pigments, and solvents
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May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Protection of first-aiders No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Notes to physician No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Section 5. Firefighting measures Extinguishing media	Chemical nature Mixture of synthetic resins, pigments, and solvents Hazardous components CAS No. Chemical Name 71:23:-8 propan:1-ol 20 - 30%, √ 123:-96-4 n-butyl acetate 10 - 20%, √
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May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Protection of first-aiders No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Notes to physician No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Section 5. Firefighting measures Extinguishing media Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.	Chemical nature Mixture of synthetic resins, pigments, and solvents Hazardous components CAS No. Chomical Name Concontration GHS Hazardous 71-23-8 propan-1-ol 20 - 30% ✓ 123-86-4 n-butyl acetate 10 - 20% ✓ 71-36-3 n-butanol 10 - 20% ✓ 26068-38-6 epoxy resin (number average molecular 5 - 10% ✓ 1314-13-2 zinc oxide 5 - 10% ✓
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Protection of first-aiders No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Notes to physician No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Section 5. Firefighting measures Extinguishing media Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray. Extinguishing media which shall not be used for safety reasons	Chemical nature Mixture of synthetic resins, pigments, and solvents Hazardous components CAS No. Chomical Name Concontration GHS Hazardous 71-23-8 propan-1-ol 20 - 30% √ 123-86-4 n-butlyl acetate 10 - 20% √ 71-36-3 n-butlanol 10 - 20% √ 26068-38-6 epoxy resin (number average molecular 5 - 10% √ 1314-13-2 zinc oxide 5 - 10% √ 107-98-2 1-methoxy-2-propanol 3 - 5% √
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Protection of first-aiders No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Notes to physician No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Section 5. Firefighting measures Extinguishing media Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray. Extinguishing media which shall not be used for safety reasons High volume water jet	Chemical nature Mixture of synthetic resins, pigments, and solvents Hazardous components CAS No. Chomical Name Concontration GHS Hazardous CAS No. Chomical Name Concontration GHS Hazardous T1-23-8 propan-1-ol 20 - 30% ✓ 123-86-4 n-butpl acetate 10 - 20% ✓
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May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Protection of first-aiders No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Notes to physician No data available on the product. See section 3 and 11 for hazardous ingredients found in the product. Section 5. Firefighting measures Extinguishing media Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray. Extinguishing media which shall not be used for safety reasons High volume water jet Special hazards arising from the substance or mixture Hazardous combustion products	Chemical nature Mixture of synthetic resins, pigments, and solvents Hazardous components CAS No. Chomical Name Concontration GHS Hazardous CAS No. Chomical Name Concontration GHS Hazardous T1-23-8 propan-1-ol 20 - 30% ✓ 123-86-4 n-butpl acetate 10 - 20% ✓
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SC Auto (Myanmar) Co., Ltd.

		SPIES HECKER	Chemwatch: 4804-97 Version No: 11.1.1	Pege 21 of 21 Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Issue Date: 03/07/ Print Date: 23/08/
AFETY DATA SHEET			paraffin wax	8002-74-2, 12704-91-5, 105054-83-1, 105645-06-7, 115251-28-5, 115251-28-6, 12704-92-6, 12795-75-4, 160336-38-6, 3722 33373-76-9, 51331-552, 64552-42-1, 57572-43-7, 575056-94-1, 50577-147, 54742-43-4, 67472-51-4, 6867-05-9, 68649-50 72931-68-6, 72933-09, 6305-54, 69641-02, 60474-99, 9052-41, 42057-74-4	20-23-8, 37339-80-3, 39355-22-1, i-3, 70431-26-4, 72993-88-5,
Section 1. Identificatio	on of the substance/mixture and of the		available literature reference	ation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch	Classification committee using
Product identifier			www.chemwatch.net		
Product name	PERMAFLEET		The SDS is a Hazard Com settings. Risks may be dete	munication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risk emlined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be c	cs in the workplace or other considered.
	1:1 Wash Primer lasierend 3688		Definitions and abbre		
			PC-TWA: Permissible Co	oncentration-Time Weighted Average	
roduct code	4025331236603		PC — STEL: Permissible C IARC: International Agency	ioncentration-Short Term Exposure Limit y for Research on Cancer	
levant identified uses of	the substance or mixture and uses advised against		ACGIH: American Confere STEL: Short Term Exposur	nce of Governmental Industrial Hygienists	
ating for professional use			TEEL: Temporary Emerger	cy Exposure Limit, us to Life or Health Concentrations	
etails of the supplier of th	ne safety data sheet		OSF: Odour Safety Factor NOAEL :No Observed Adv		
ompany/Undertaking Identif			LOAEL: No Observed Adv LOAEL: Lowest Observed A TLV: Threshold Limit Value	Adverse Effect Level	
			LOD: Limit Of Detection OTV: Odour Threshold Val		
Producer/Supplier Street/Box	Axalta Coating Systems Germany GmbH & Co. KG Horbeller Str. 15		BCF: BioConcentration Fa	ctors	
NatCode/Postal code/City	DE 50658 Köln +49(0) 2234 6019-01		BEI: Biological Exposure in		
Telephone Importer	Axalta Coating Systems Singapore Holding Pte Ltd.		This document is copyright Apart from any fair dealing	for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by an	ny process without written
Street/Box NatCode/Postal code/City	1 Robinson Road, #15-02 AIA Tower, Singapore 048542		permission from CHEMWA TEL (+61 3) 9572 4700.	ATCH.	
			122,1010,00124100.		
mation on SDS					
oonsible Department phone	Regulatory Affairs +49 (0)202 529-2385				
efax	+49 (0)202 529-2804				
ail address	sds-service@axaltacs.com				
gency telephone					
ency telephone number of er	manu- +(65) 65429595				
rther information, pleas	e also consult our Internet site				
ection 2. Hazards ide	entification				
his preparation is hazardous per th	ne following GHS criteria				
HS-Classification					
Flammable liquids	Category 3				
Skin corrosion/irritation	Calegory 2				
Serious eye damage/eye irritation Skin sensitisation	Category 2A Category 1				
arget Organ Systemic Toxicant	Single exposure Category 3				
nronic aquatic toxicity	Category 2				
finding which are "not described"	, "cannot classified" and "not applicable" are not shown.				
	- second second and not approache are not shown.				
IS-Labelling					
	$\wedge \wedge \wedge$				
azard symbols					
	Mercina				
Signal word	Warning				
azard statements	Flammable liquid and vapour. Causes skin irritation.				
	May cause an allergic skin reaction.				
	Causes serious eye irritation. May cause respiratory irritation.				
alta and Axalta Coating Systems are trade ns, LLC and all affiliates. Sples Hecker (8).	emarks or registered trademarks of Axaila Coating Sys-4025 Permanyol@, Permachid@, Permacron@, Priomat@ Reviv nof Raderal@, are registered trademarks of Axaita Coat- Print	331236603 v4.3 sion Date: 2016-03-11 Date: 2016-03-11			
ermafleet(3), Permaloid(8), Permatast(5) a Systems, LLC and all affiliates. All rights	Ind Haderal(3) are registered trademarks of Axalta Coat- reserved, envS	Date: 2016-03-11 G Page 1 - 11			end o
		54			end

SC Auto (Myanmar) Co., Ltd.

ernwatch: 4804-97	Pe	age 20 of 21 Issue Date: 03/07/2014	Chernwatch: 4804-97	Page 19 cl	21	Issue Date: 03/07/
rsion No: 11.1.1.1	Meguiar's M08 - Mirror Glaze M	laximum Mold Release Wax (23-135A) Print Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximi	ım Mold Release Wax (23-135A)	Print Date: 23/08
	1					
UN proper shipping name		JQUD, N.O.S. (contains beta-pinene and alpha-pinene)	Waste treatment methods			
Transport hazard class(es	IMDG Class 9 IMDG Subrisk Not Applicable			 Containers may still present a chemical hazardi danger whe Return to supplier for reuse/ recycling if possible. Otherwise: 	n empty.	
Packing group	p III			 If container can not be cleaned sufficiently well to ensure that puncture containers, to prevent re-use, and bury at an author 		store the same product, then
Environmental hazard	d Marine Pollutant			 Where possible retain label warnings and SDS and observe 		
	EMS Number F-A. S-F		Product / Packaging disposal	 DO NOT allow wash water from cleaning or process equipr It may be necessary to collect all wash water for treatment b 		
Special precautions for use			unpost.	In all cases disposal to sower may be subject to local laws a		
opecial precautions for use	Limited Quantities 5 L			 Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recy 	clina cations	
				 Consult State Land Waste Authority for disposal. 	and shows	
repenset in bulk second	ding to Annex II of MARPOL and the IBC code			 Eury or incinenate residue at an approved site. Rocycle containers if possible, or dispose of in an authorise 	d landfill.	
Not Applicable	ang to Annex II of MARFOL and the IBC code	e				
Not Applicable			SECTION 14 TRANSPORT	T INFORMATION		
ECTION 15 REGULAT						
LONGA IS RECOUNT			Labels Required			
afety, health and enviro	onmental regulations / legislation specific for	r the substance or mixture		- db.		
DISTILLATES, PETROLEUM	A, LIGHT, HYDROTREATED (64742-47-8) IS FOUND ON T	THE FOLLOWING REGULATORY LISTS				
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)		- 9		
Australia Hazardous Substanci	ces Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs				
	SHFP(64742-48-9.) IS FOUND ON THE FOLLOWING REG		Marine Pollutant	$\langle \Psi_{\alpha} \rangle$		
Australia Exposure Standards	ces Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC				
Australia Hazardous Substanci	es mornalion System - Consolidated Lists	Monographs		~		
	RBON WAXES, OXIDISED, LITHIUM SALTS(68649-48-9)	IS FOUND ON THE FOLLOWING REGULATORY LISTS	HAZCHEM	-3Z		
Australia Inventory of Chemica			Land transport (ADG)			
			UN number	3082		
Australia Inventory of Chemica			UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID 1	VOS. (contains beta-pinene and alpha-pinene)	
				Class 9		
	FOUND ON THE FOLLOWING REGULATORY LISTS		Transport hazard class(es)	Subrisk Not Applicable		
Australia Inventory of Chemica	# Substances (AICS)			ocumar No: Approable		
	(63148-62-9) IS FOUND ON THE FOLLOWING REGULAT	TORY LISTS	Packing group	11		
Australia Inventory of Chemica	I Substances (AICS)		Environmental hazard	Not Applicable		
PARAFFIN WAX(8002-74-2)	IS FOUND ON THE FOLLOWING REGULATORY LISTS		2 · · · · · · · · · · · · · · · · · · ·	Special provisions 274 331 335 375 AU01		
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)	Special precautions for user	Limited quantity 5 L		
	ces Information System - Consolidated Lists					
National Inventory	Status		Environmentally Hazardous Substan are not subject to this Code when the	nces meeting the descriptions of UN 3077 or UN 3082 economic to call in:		
Australia - AICS	Y		(a) packagings.			
Canada - DSL	Y		 (b) IBCs: or (c) any other receptacle not exceed 	ina 500 ka(L).		
Canada - NDSL	N (petroleum distillates HFP; polydimethylsiloxane; para hydrotreated; paraffin wax)	affin and hydrocarbon waxes, oxidised, lithium salts; bela-pinene; distillates, petroleum, light,	- Australian Special Provisions (SP	AU01) - ADG Code 7th Ed.		
China - IECSC	v		Air transport (ICAO-IATA / D	OGR)		
Europe - EINEC / ELINCS /			UN number	3082		
NLP	N (polydimethylsiloxane)		UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. * (contains b	eta-pinene and alpha-pinene)	
Japan - ENCS	N (petroleum distillates HFP; polydimethylsiloxane; para	ifin wax)		ICAO/IATA Class 9		
Korea - KECI	Y		Transport hazard class(es)	ICAO/IATA Glass 9 ICAO / IATA Subrisk Not Applicable		
New Zealand - NZIoC	N (paraffin and hydrocarbon waxes, oxidised, lithium sat	ts)	manaport nazaro ciass(es)	ERG Code SL		
Philippines - PICCS	Y					
USA - TSCA	Y		Packing group	ш		
Legend:	Y = All ingredients are on the inventory	on the Inventory and are not exempt from listing(see specific ingredients in brackets)	Environmental hazard	Not Applicable		
	rv – nor aetermined or one or more ingredients are not o	on the inventory and are not exempt from listing(see specific ingredients in brackets)		Special provisions	A97 A158 A197	
ECTION 16 OTHER IN	FORMATION			Cargo Only Packing Instructions	964	
				Cargo Only Maximum Qty / Pack	450 L	
			Special precautions for user	Passenger and Cargo Packing Instructions	964	
ther information	e cas numbers			Passenger and Cargo Maximum Qty / Pack	450 L	
ther information				Passenger and Cargo Limited Quantity Packing Instructions	Y954	
ther information gredients with multipl					f and the second s	
ther information gredients with multipl Name	CAS No			Passenger and Cargo Limited Maximum Qty / Pack	30 kg G	
ther information gredients with multipl Name petroleum distillates HFP	CAS No 64742-48-9., 64742-88-7				30 kg G	
ther information gredients with multipl Name	CAS No		Sea transport (IMDG-Code		30 Kg G	

Green Myanmar Environmental Services Co., Ltd.

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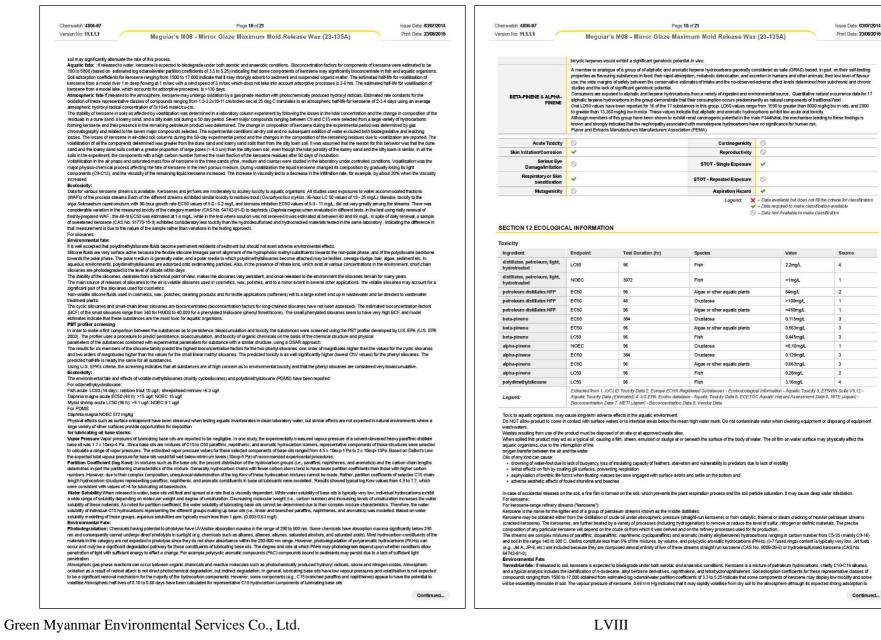
SC Auto (Myanmar) Co., Ltd.

on No: 11.1.1.1 🦯		18 of 21	Issue Dete: 03/07/2014 Print Date: 23/08/2016	Chernwatch: 4804-97 Version No: 11.1.1	Page 1		Issue Date: 03/07 Print Date: 23/08
	Meguiar's M08 - Mirror Glaze Maxi	imum Mold Release Wax (23-135A)	Print Date. 2308/2010	Version No. 11.1.1	Meguiar's M08 - Mirror Glaze Maxir	num Mold Release Wax (23-135A)	Print Daile. 23/06
holocopier toner, printed pape	rr. Stvrene	Formaldehycle, benzaldehycle		Stability in Water: Chemicals that I	ave a potential to hydrolyze include alkyl halides, amides, ca	bamates, carboxylic acid esters and lactones, epoxides, phosphate est	ers, and suffonic acid
yrene polymers nvironmental tobacco smoke	Styrene acrolein nicotine	Formaldenyde, benzaldenyde Formaldenyde, benzaldenyde, hexanal, givoxal, N-methylformamide, r	al a the state of a settletion	esters. Because lubricating base old	do not contain significant levels of these functional groups,	materials in the lubricating base oils category are not subject to hydrol characteristics of component hydrocarbons in lubricating base oils. Ihe	vsis
biled clothing, fabrics, beddin	Overslags, succedended desche state and divers	Acetone, geranyl acetone, 6MHO, 40PA, formaldehyde, nonanal, dec		components are expected to have th	highest vapour pressures and water solubilities, and the low	est partition coefficients. These factors enhance the potential for wides	pread distribution in the
P	⁹ saturated fatty acids Unsaturated fatty acids from plant waxes, leaf litter, and	azelaic acid, nonanoic acid Formaldehyde, nonanal, and other aldehydes; azelaic acid; nonanoic	orist 0 ove neuronale cald			se oil components, the EQC (Equilibrium Criterion) model was used to ube oils (e.g., paraffins, naphthenes, and aromatics). The modelling for	
iled particle filters	other vegetative debris; soot; diesel particles	and other oxo-acids; compounds with mixed functional groups (=0, -0	OH, and -COOH)	air is the ultimate fate of these C15 of	empounds. Aromatic compounds partition principally to soil.	Linear paraffins partition mostly to soil, while branching appears to allo	w greater distribution to al
ntilation ducts and duct liner	s Unsaturated fatty acids and esters, unsaturated oils, neoprene	C5 to C10 aldehydes		Naphthenes distribute to both soil an degradation factors, least modelled	d air, with increasing proportions in soil for components with n the atmosphere are likely overstated in light of the tendenc	the greater number of ring structures. Because the modelling does not	take into account
Jrban grime"	Polycyclic aromatic hydrocarbons	Oxidized polycyclic aromatic hydrocarbons		Biodegradation: The extent of bio	legradation measured for a particular lubricating oil basestod	k is dependent not only on the procedure used but also on how the sam	ple is presented in the
fumes, colognes, essential g. lavender, eucalyplus, tea l	olls Limonene, alpha-pinene, linalool, linalyl acetate, Irree) terpinene-4-ol, gamma-terpinene	Formaldehyde, 4-AMC, acetone, 4-hydroxy-4-methyl-5-hexen-1-al, 5- 5-methyl-2(3H) furanone, SOAs including ultrafine particles	-ethenyl-dihydro-	biodegradation test. Lubricant base on microorganisms and therefore inhere	is typically are not readily blodegradable in standard 28-day ofly biodegradable. Twenty-eight biodegradability studies by	tests. However, since the oils consist primarily of hydrocarbons that are the been reported for a variety of lubricating base oils. Based on the res	e ultimately assimilated by sults of ultimate
erall home emissions	Limonene, alpha-pinene, stvrene	Formaldehyde, 4-AMC, pinonaldehyde, acetone, pinic acid, pinonic a	acid, formic acid,	biodegradability tests using modified	Sturm and manometric respirometry testing the base oils are	expected to be, for the most part, inherently biodegradable. Biodegrad	lation rates found using th
	I-1-melhylcyclohexene; 6MHO, 6-melhyl-5-heptene-2-one, 4OPA	bertzaldehyde, SOAs including uttrafine particles 4-oxopentanal, SOA, Secondary Organic Aerosols		modified Sturm procedure ranged fro measured in 21-day CEC tests for si	11.5 to 29%. Results from the manometric respirometry tes nilar materials ranged from 13 to 79%.	ts on similar materials showed biodegradation rates from 31 to 50%. B	iodegradation rates
ference: Charles J Weschle	r: Environmental Helath Perspectives, Vol 114, October 2006	, , , , , , , , , , , , , , , , , , , ,		Ecotoxicity:			
r alkenes (olefins) vironmental fate:				Numerous acute studies covering fisi toxicity to aquatic organisms, Eloht, 7	i, invertebrates, and algae have been conducted to assess the day exposure studies using rainbow trout failed to demonstra	e ecoloxicity of various lubricating base oils. None of these studies have ate toxicity when tested up to the maximum concentration of 1000 mg/L	a shown evidence of acuti applied as dispersions.
		to aqualic organisms under expected conditions of use or in the event of tanol/water partition coefficients of alpha olefins succest a potential for b		Three, 96-hour tests with rainbow tro	It also failed to show any toxic effects when tested up to 100	0 mg/L applied as dispersions. Similarly, Ihree 96-hour tests with fathead Two species of aquatic invertebrates (Daphnia magna and Gammarus s	minnows at a maximum
iterials in aquatic organisms	, the volatility of these materials (especially for the liquid alpha ole	fins) and the low-water solubility (indicative of limited bioavailability), wo	ould indicate that	solutions up to 10,000 mg/L for 48 an	d 96-hours, respectively, with no adverse effects being obser	ved. Four-day exposures of the freshwater green alga (Scenedesmus :	sp.) were exposed to vvAr subspicatus) to 500 mg/L
accumulation will not occur.	Under most environmental scenarios, extensive evaporation and oxic to aquatic organisms, will biodegrade, and will not bioaccum	subsequent degradation in the atmosphere would preclude bioaccumulat	tion. Therefore, alpha	WAF solutions failed to show advers	e effects on growth rate and algal cell densities in four studie	s tion. In 10 of 11 chronic studies, daphnids were exposed for 21 days to V	MAE propagalises of
e potential for exposure of a	quatic organisms to members of the higher olefins will be influence	ed by their physico-chemical properties. The predicted or measured wat	ter solubilities of these	lubricating base oils with no ill effects	on survival or reproduction at the maximum concentration of	1000 mo/L. One test detected a reduction in reproduction at 1000 mo/L	Additional data suppor
Ins range from 50 mg/L at 2 ger olefins to be bioavailable	10 C for hexene to 0.00015 mg/L at 25 C for 1-octadecene, and to to aquatic organisms due to their low solubilities. Their waver ore	6.33 [E-23] mg/L at 25 C for C54 alpha olefin, which suggests there is a ssures range from 230.6 hPa at 25 C for hexene to 0.00009 hPa at 25 C	lower potential for the	findings of no chronic toxicity to aqua The data described above are support	ic invertebrates and fish. No observed effect levels ranged fr ted by studies on a homologous series of alkanes. The arth	om 550 to 5,000 mg/L when tested as either dispersions or WAFs. or concluded that the water solubility of carbon chains .C10 is too limited	d to elicit acute toxicit√ T
3 [E-16] hPa at 25 C for C54	4 alpha olefin, which suggests the shorter chain olefins will tend to	partition to the air at a significant rate and not remain in the other enviro	onmental compartments for	also was shown for alkylbenzene cor	pounds having carbon numbers .C15. Since base oils consis	t of carbon compounds of C15 to C50, component hydrocarbons that a	re of acute toxicological
g periods of time; while the I afficients (Koc) range from 1	onger chain olefins will lend to partition primarily to water, soil or 49 for C6 to 230,800 for C18 and to 1.0 [E10] for C54. indicating	sediment, depending on water solubility and sorption behavior. The pred increasing partitioning to soil/sediment with increasing carbon number. I	acted soil adsorption Level I fugacity modelling	concern are, for the most part, abser chronic toxicity. This lack of toxicity is	t in these materials. Similarly, due to their low solubility, the a borne out in the results of the reported studies.	Rylated two to three ring polyaromatic components in base oils are not e	expected to cause acute r
dicts that the C6-13 olefins	would partition primarily to air, while the C16 and longer chain ole	fins would partition primarily to soil. Results of Level III fugacity modellin	ng suggest that the C6 -8	The effects of crude and refined oils of	n organisms found in fresh and sea water ha been extensive		hall at an estat at a
tential to hydrolyse and do no	of photodegrade directly. However, in the air, all members of the ca	d C10, soil and sediment become the primary compartments. These cher tegory are subject to atmospheric oxidation from hydroxyl radical attack.	with calculated			sh species can often escape from the affected region. The extent of the and wind velocity. Most affected freshwater and marine communities re	
gradation half- lives of 1.8 to	4.8 hours. C6-30 olefins have been shown to degrade to an exter	nt of approximately 8-92% in standard 28 day blodegradation tests. These as shows that the members of the blocker oleftos have potential for degrad	e results were not clearly	an oil spill within a year. The occurre	ce of biogenic hydrocarbons in the world's oceans is well re-	corded. They have the characteristic isoprenoid structure, and measure	ements made in water
latilisation from water is pred	licted to occur rapidly (hours to days), with Henry's Law Constants	(bond method) ranging from 0.423 (C6) to 10.7 (C18), and to 2.89 [E5]	(C54) atm-m3/mol.	3 mm layer of water.	•	tais are dispersed as particles, with the highest concentrations of abou	
nsideration of these degrada	ation processes supports the assessment that these substances v	vill degrade relatively rapidly in the environment and not persist. Based o of expected to bioaccumulate (BCF: C6 = 44-46, C7 = 236, C16 = 71-92	n calculated	A wide variation in the response of o	ganisms to oil exposures has been noted. The larvae of fish e indicated that certain species of diatoms and green algae a	and crustaceans appear to be most susceptible to the water-soluble fra-	ction of crude oil.
hough the C8 - 15 olefins ha	ve BCFs ranging from 313 to 2030, and Kow values ranging from	4.13 to 7.49, and thus are considered to have the potential for bloaccum	ulation, their physico-	For the most part, molluscs and most	intertidal worm species appear to be tolerant of oil contamin	ation.	
emical properties and fate in: otoxicity:	dicate that there would be limited environmental exposure because	e of volatility, biodegradability and limited solubility.		For bicyclic monoterpenes:	a bada da amad al'an 16 an 16 an 6 a Mar ala an an an bada a da ada	rials in this group are in the range from 1.4 to 9.4 hours. These calculat	and any based on
sta indicate that acute aquati	c taxicity can be observed for C6 through the C10 olefins (C6: EC	/LC50 range of 1-10 mg/L; C7-C10: EC/LC50 range of 0.1-1.0 mg/L), ar	nd that toxicity increases	measured OH rate constants for alpl	a-pinene, beta-pinene, camphene and trans-pinane, measure	ed ozone and NO3 rate constants with the exception of trans-pinane.	ions are based on
th increasing carbon number	within that range, which is consistent with increasing Kow values	(3.07 -5.12). Above a chain length of 10, toxicity is not observed within I 20.0 ug/L, EC50= 28.1 ug/L, NOEC = 19.04 ug/L). Data also suggest this	the limits of solubility.	Stability In Water: No hydrolysis is	cossible for any of the materials in this group. All are expected	d to be very stable in aqueous solution. using standard OECD Guideline protocols. Additional studies in soll ho	deserved a bella factors of features
iffer with bond location or pres	sence of branching.	20.0 ugic, 2000-20.1 ugic, NOEC - 13.04 ugic). Disa also suggesi ili	ar aquaic toxicity does not	coniferous and deciduous forests pro	ide a broader perspective on the biodegradation of bicyclic t	erpene hydrocarbons in the environment Four studies on alpha-pinene	a showed limited
or lithium (anion): invironmental fate:				biodegradability. The first, evaluated days : and a livin evaluated reach bio	nherent biodegradability, and reported 37% biodegradation a degradability using a mixture match of alpha and beta pinete	If 31 days ; the second, evaluated ready biodegradability, and reported 3 in a closed bottle test, reported very limited biodegradability. In the four	8% biodegradation at 28
		increasing consumption might therefore result in adverse effects on health		50.9% alpha-pinene and 36.8% beta	binene was concluded to be inherently biodegradable based	on the results of a closed bottle Sturm test. The mixture was 52% blode	and avithin 28 days, but
as significant bioavailability or	nly when administered as a partially soluble salt such as itthium ca				tation had ceased.		grade a training outpa, be
cotoxicity:				there was no indication that biodegra Very limited biodegradability was als		n studies showing limited biodegradability. The authors concluded that th	
cotoxicity: Ish LC50 (28, 35 days) rainbo				Very limited biodegradability was als low water solubility of these substance	reported for 3-carene and for camphene (less than 20%). In as led to volatilization of the test substance in the upper parts	n studies showing limited biodegradability, the authors concluded that the of the test vessel, thereby, limiting aerobic biodegradation.	ne high vapor pressure ar
cotoxicity: ish LC50 (28, 35 days) rainbo ish LC50 (96 h): fathead minr aphnia magna EC50 (48 h): 3	row 42 mg/l: NOEC 13 mg/l (sall) 24 mg/l: NOEC 11 mg/l			Very limited biodegradability was als low water solubility of these substanc Additional studies in extracts and slu	reported for 3-carene and for camphene (less lhan 20%). In as led to volatilization of the test substance in the upper parts ries prepared from soils of coniferous and deciduous forest i	of the test vessel, thereby, limiting aerobic biodegradation. Indicate rapid and complete biodegradation of <i>alpha</i> -pinene in a closed	ne high vapor pressure ar I bottle test. Soli extracts
cotoxicity: sh LC50 (28, 35 days) rainbo sh LC50 (96 h): fathead minr aphnia magna EC50 (48 h): 1 thium is not expected to bioac	row 42 mg/l: NOEC 13 mg/l (sail) 24 mg/l: NOEC 11 mg/l :cumulate in mammals and its human and environmental toxicity a	re low. Lithium does accumulate in several species of fish, moliuscs and		Very limited biodegradability was als low water solubility of these substam. Additional studies in extracts and slu from coniferous and hardwood water biodegradation after approximately 8	reported for 3-carene and for camphene (less than 20%). In is ted to volatilization of the test substance in the upper parts ries prepared from soils of coniferous and deciduous forest i heds were added to sealed flasts containing oxygen-satural lays in acclimated medium and after day 15 in non-acclimate	of the test vessel, thereby, limiting aerobic biodegradation.	ne high vapor pressure ar Ibottle test. Soil extracts ∋-Pinene undervent 100%
cotoxicity: sh LC50 (28, 35 days) rainbo sh LC50 (36 h): fathead minr aphnla magna EC50 (48 h): 1 hium is not expected to bioac red in the digestive fract and ethanogenesis of granular an	tow 42 mg/t; NOEC 13 mg/t (self) 24 mg/t; NOEC 11 mg/t comulate in mammals and its human and environmental toxicity a exoskeleton naerobis studge (initial COD 5750 mg/t O2, pH 7.2) was stimulate		crustaceans where it	Very limited biodegradability was als low water solubility of these ubstant Additional studies in extracts and slu from coniferous and hardwood water biodegradation after approxim ately 6 watershed sols of coniferous or deci Ecotoxic ity.	reported to 3-correne and for camphene (less lhan 20%). In is led to volatification of the lest studetance in the upper path the prepared from soils of conferous and deciduous forest il heds were added to sealed flasis containing oxygen-satural lays in accilmade medium and after day 15 in non-accimate tuous forests.	of the text vessel, thereby, limiting aerobic biodegradation. Indicate rapid and complete biodegradation of <i>eiphe</i> -pinnen in a closed de media that were preconditioned with <i>aphe</i> -pinnen for 24 hours, side d medium. The authors concluded the pinene is completely degradable	ne high vapor pressure ar Ibottle test. Soil extracts ∋-Pinene undervent 100%
sotoxicity: sh LC50 (28, 35 days) rainbo sh LC50 (96 h); fathead min sh LC50 (96 h); fathead min shria magna EC50 (48 h); i hium is not expected to bicac ored in the digestive fract and ethanogenesis of granular a di seriousty inhibited at lifhiur	tew 42 mgft: NOEC 13 mg/l (satt) 24 mg/t. NOEC 11 mgft exostkeleton nearobic studge (initial COD 5750 mg/l C2, pH 7.2) was stimulate in o concentration > 500 mg/l.	re low. Lithium does accumulate in several species of fish, moltuscs and ed at lithium ion concentration 10-20 mg/t, stightly inhibited at lithium ion	crustaceans where it concentration 350 mg1	Very limite biodegradability was alle low water solubility of these substanc Additional studies in extracts and stu- from coniferous and hardwood weller biodegradation after approximetely 5 watershed solts of coniferous or deci Ecotoxie By: Fish LCS0 (56 h); fathead minnow 0.	reported for 3-correr and for camphene (ess Ihan 20%). Is teld to validization of the led substance in the upper parts rise prepared from soils of conferous and decklouis forsit heds were added to seated flasts containing avgementatural lays in acclinated medium and after day 15 in non-acclinate luura foreats. 28 mgl (abha-pinene); 0.5 mgl (beta-pinene); Brachydanio	of the test vessel, thereby, limiting aerobic biologradation, indicate rapid and complete biodegradation of alpha-pineme in a closed et media that were preconditioned with alpha-pineme for 24 hours: alpha d medium. The authors concluded the pineme is completely degradatie rete 0.72 mg/ (camphene) (closed system flow through).	ne high vapor pressure an bottle test. Soil extracts a-Pinene underwent 100% in extracts prepared from
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setosistly: iii LSG (26, 35, 65, 94); naihob iii LSG (26, 35, 65); naihod iiii LSG (26, 35, 65); naihod iiiii LSG (26, 35, 65); naihod iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Inver42 mgH, NOEC 13 mgH (statt) MgH, NOEC 11 mgH cumulet in mammals and the human and environmental toxicity a rearrobic toxing (initial COD 5760 mgH O2, pH 7.2) was stimulet in in concentrations of Som gH. in in the progetive verifical blattomeres of a 32-cell Xanopus larvic or vederways. billity Persistemes: Water/Soil HIGH Aligi	re low. Lithium does accumulate in several species of fish, molluters and et al. Ithium ion concentration 10-20 mgt, slightly inhibited at lithium ion embryo gives rise to dupication of dossanteelor structures such as the Persistence: Air HGH	crustaceans where it concentration 350 mg1	Very limited biodegradability usis if low value solubility of these subdam. Additional studies in extractis and stu- tional studies in extractis and stu- biodegradation after exponition usis of conflormous or deci- Biodoxis hy. Fish LCSQ (6) this instead minrow (0) The acticulated values for camphene, made up of these studies and up of these paphrinia magna LCSQ (4) his 1.4.4.4. The acticulated values for camphene, made up of these studies of complex studies for progenities studies and the more studies of complex concentrations. Lower lepprodict to complex containing innoneer and other more the reaction of comore with stuger ur organic acrossil.	reported for 3-certers and for comphene (less than 20%). In site of usefaltacion of the lest substance in the upper parts rise prepared from soils of conferous and deckdous forest thes were added to sealed finals containing oxygen-status lays in acclimated medium and after day 15 in non-acclimate duota Therität. 30 mg/ algobio-pinnel; 0.5 mg/ baba-pinnel; 0.8 mg/ baba- pinnel; 0.7 mg/ baba-pinnel; 0.5 mg/ baba-pinnel; 0.7 mg/ confamily, 0.8 mg/ baba-pinnel; 0.8 mg/ baba-pinnel; 0.5 mg/ baba-pinnel; 0.7 mg/ baba-pinnel; 0.7 mg/ baba-pinnel; 0.7 mg/ c/pinnel; 0.6 mg/ c/pinnel; 0.6 mg/ c/pinnel; 0.6 mg/ c/pinnel; 0.6 mg/ c/pinnel; 0.6 mg/ c/mg/ confact in the called and pinnel; 0.6 mg/ c/mg/ confact in the called and pinnel; 0.6 mg/ confact in the called and pinnel; 0.6 mg/ conf	of the test vessel, thereby limiting aerobic biologipation. Indices mpiral and compile biologipation of apho-prime in a closed of medi that vesse preconditioned with apho-prime for 2A hours, apho fundami. The authors concluded the prime is compiledly suggestable rels 0.72 mgl (comphene) (closed system flow through). 0.83 and 0.22 mgl, respectively. Indicates that all of these materials and mit. 0.80 mgl, respectively, Indicates that all of these materials and 0.22 mgl, respectively, Indicates that all of these materials and 0.22 mgl, respectively, Indicates that all of these materials and 0.22 mgl, respectively, Indicates that all of these materials 0.63 mgl. Emission of blogenic hystocrachons, such as the lergense, bit has 10 mgl. Emission of blogenic hystocrachons, such as the lergense, lot has the disgradidion protochemical protocraft and complexel, loads to a companies of blogenic hystocrachy influencing community a stoggadation protochemical mody therefore kidnicely influencing community and any generated species with low vapour pressures that subsequently conder m many sources (see balow). Modul are nearchine with environmetal aco m reloaded species tubilities relations should be conditioned.	The high vapor pressure an bothe test. Soil extracts Phene undervert 1009 in extracts prepared from a materials and mixtures that dures that primarily are als and mixtures that an increase in access on powhere may either an increase in access on aqueous system, initial arise to form secondary
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Mathematical and anyoff stable Photones, decamp, See-on-come and, additional promaderlyby, excludinglyb, horizations, attracts that subsequently conder neroload paper to facilitate reactions should be considered. Methacorban, mothy viryl testions, ritrogen disckis, kato 3, com- promaderlyby, excludinglybe, bercard by the closed at attracts. Formadelshybe, actualityby, bercard by the closed at attracts. Formadelshybe, actualityby, bercard by the closed, phonoic acid, formic viryl stores. 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Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.



SC Auto (Myanmar) Co., Ltd.

amwatch: 4804-97	Page 14 of 21	Issue Date: 03/07/2014	Chernwatch: 4804-97	Page 13 of 21	Issue Date: 03/06
sion No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Print Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Print Date: 23/04
	was found between respiratory complaints related to fragrances and cortact allergy to fragrance ingredients, in addition to hand e independent risk factors in a multivariate analysis. Fragrance allergens at as helpelons, i.e. low molecular weight chemicals that are immunogenic only when attached to a carrier pr sensitising flagmane chemicals are deriver active, but register previous advaluation. A prehapten ta is a chemical that last fin to a fransformed trio a hapten culdide the skin by single chemical transformation (air oxidation, photoachedion) and vithout the req systems. In the case of prehaptens, it is possible to prevent advaluation outside the body to a certain edent by different measures, ag, preven handrain and songer of the regredents and the final photoache of the by the addition obtable anticolations. How matching the handrain of a doarded the method and the final photoache ob the body to a certain edent by different measures, ag, preven they not be adulated themesters and thereby form new sensitisters. Woalt terporene with codesitie ally conforms can be expected to admitche on all exposition due to their hitherent properties. Deprivations that are transformed to advaluate the results. Deprivation of the advaluated theme and the transformation of advaluated to the shift of a stransformed to advaluate the results. Deprivations that are formed, a difference in the sensitistion potency of the oxidated to the provide the advaluation to the syndrogen data to the oxidated to the oxidate of a origination more to advaluate the enducid that are formed, a difference in the sensitistion potency of the oxidated to the oxidate of a origination more advaluated to the oxidate of a origination more to advaluate the termination of the oxidated or the advaluated to the advaluated to the oxidate of the protection of the oxidate of the protection of the oxidate of the protection of the ox	clein. However, not all to rol non-sensitising, but that urement of specific enzymatic lion of air exposure during edd, care should be laken that anding on the stability of the		(vith/without activation) b-Vivo Genotoxickty: Multiple // vivo genotoxicity studies have been done on a variety of kerosen-based materials. Four sar and a sample of JeA A was positive in <i>in</i> vivo born marrow of opgenetic leads in Signage-Davley vits. One of the kerosene- sample and the and negative exacts in financial view in Insel on a sader chorability cite. The of the kerosene- sample of JeA A was positive in <i>in</i> vivo born marrow of the sample of the same same same same error to mice the initiation. The increase was administred to both mice and risk integritorially of the optimized of the same same same same same same same sam	Iplies produced a positive trosone and Jet A samples hile the jet fuel was administered is a. The does per body weight lays of gestation. There were n n any of the velopmental toxicity of HDS related deaths in either study. on lasted from 2 to 8 days with
	shows selectivity for positions where stable nackate can be formed. Soft nr. all flagmone substances that have been investigated autoxisition on the indegrein potentic in Lucking is interfaction of formed oxidiation potects, have oxidiate addite potention that hydrogenoids and/r hydrogen percuide as primary oxidation products upon or exposure. Once the hydrogenoids these been for form specific antigers and and a site measures. Secondray oxidiation products upon or discussion of the base been for the stable hydrogeness and and a site measures. The soundary oxidiation products upon a discussion and base base increasing the sensitization padercy of the autoxidation mixture. The process of probactivation may also play a role, but thriter tablish whether that activation of autostances was all civitation in the hydrogeness. The hydrogeness is the hydrogeness and all should be noted that activation of autostances was all civitation in the hydrogeness. The hydrogeness and lange can be an altergers after a scalability of the lange can be the hydrogeness. The hydrogeness tables hydrogeness the oxidiation of autostances was all civitation and the hydrogeness tables in the hydrogeness tables in the hydrogeness tables that the base and the stables and the hydrogeness tables that activation to oxidiated indiand and civitation that product tables that activation to oxidiated indiand and civitation that product tables that activation to oxidiated indiand activation that the scalability and the hydrogeness tables that activation to oxidiated indiand the civitation tables tables that activation to oxidiated indiand activation that the tables and the scalability and the scalability and the tables tables that the scalability and the scalability and the tables that the tables that the scalability and the scalability and the tables that the tables that the product tables are based to the product tables that the tables that the product tables are based to the tables that tables that the tables that the product	ne aké lo fom me duside he skih they sentric Tus further sentric Tus further guint cher haptens guint cher haptens du hyrodroyae du duside the colded. In chard studies, sost-aedhivy ar ac due lo de are the main components in previous studies of the pure	BETA-PINENE & ALPHA- PINENE	most animats showing sign is not barge, treatment the least intentear has an enter of body verging an enter of body verging and the set of the feature set of the fea	so unaffected by treatment with altergenic condition known as d. Kay criteria for the diagnosi na-like symptom s within minut severe bronchiel hyperreacity uded in the criteria for diagnos of and duration of exposure to intrations of intration substance
BETA-PHENE X ALPHA- PINENE	synthetic terpenes. Experimental semistation tubors showed that are exposure of levender of increased the semistation potency demantitic patients towed a connection between pother excitations to oxides dinated. Invel a called and levender of in Protoperse In the case of prohapters, the possibility to become acclusion is thermer to the molecule and acluston cannot be avoided by earth processes transactions that in this for cases acclusion is thermer to the molecule and acluston cannot be avoided by earth processes transactions that in this for cases acclusion is thermer to the molecule and acluston cannot be avoided by earth processes transactions that in this for cases acclusion is thermer to the molecule and acluston cannot be avoided by earth processes transactions that in this for cases acclusion is acclusion in the case of a choice of the avoid of the avoid acceleration of the advoided is there to the molecule and acluston cannot be avoided by earth in the case of prohapters. The possibility is become acclusion is acclusion is acclusion to call and the advoided in the avoid acceleration of the advoided is the advoided and possible. These interviews and functional station requires avoid the advoided on a set oblice interlation is anothering on the advoide and the interviews that calladays phase is transformation is tacking the cytorine F466 mideet and that calls acclusion acclusion acclusion and declusing baloremstromations, but the informatic alters that all experiment is allowed and the acclusion acclusion acclusion is advoided in advoided is advoided in advoided is advoided in advoided in advoided in advoided is advoided in advoided in a dvoided in advoided is advoided in a second and advoidentific sprant channel to accelerate advoided in advoided is advoided in advoided is advoided in advoided is advoided in advoided in advoided in advoided in advoided in advoided in advoided is advoided in a second advoided is advoided in the advoided in advoided in advoided in advoided in advoided in advoided is advo	sic measures Adivation of and blait corresponding hydrophility and allow known as adivation or lar at his port they will be sufficiently will be sufficiently will be adivative ability disputs and a sufficient disputs and a solution base and and all Sist client, cliental observations at on well established mitination well be adivative ability and a solution base and a base and adiverse and a solution and adiverse and a solution and adiverse and a solution and adverse and a solution and adverse and a solution and adverse and a solution and adverse and adverse and adverse and adverse and adverse and adverse and adverse advers		Adverse reactions to heganoses in performe and in heganose conserved constraints include allergic contact dermatilits. Internet photosensity, includes constraint constraints (include), and pigneted constraint dermatilits. Antone and combalits intolerense to performe, by photation, may occur if the performe contains a sensitivity printogical. Symptoms may vary trom ge verses: or, the adjustras, headsine, excellent all without producing an gE-mediated allergits or demonstratele resplandory bases constraints. In Symptoms headsine, the excellent all the performance of the performa	that demails occur, near lines, coughin, pirégra (ricular) asthma). Perfumes ution. This was shown by with or without a cathon filter had nough the cathon filter had no rough the cathon filter had no use the respiratory indic of by (dehyde, tend to give persisten incus combinations of sensory, use of cologne and one brand digit common far gargance generation far gargance generation far gargance and demails to forgance and demails to forgance and the guality of the of the possible as it on
BETA-PINENE X ALPHA- PINENE	For bicyclic segmens: Acute bucktly. The literatum is advantis with clinical reports of accidential and interfamil acute policoning with planne-based lupper for a bicyclic segments: Acute bucktly. The literatum is advantis with clinical reports of accidential and interfamil acute policoning with planne-based lupper for an LOO study. The literatum is advantised with acute bucktown is advantised by a bucktown is a the literatum interfamily bucktown is advantised on an SOO register. The acute LOO study acutes stimular is backed with an advantised is advantised by the seen measure in advantised by a SOO register. The acute LOO study estimates is a study is advantised and SOO regists in more. The acute inhibition LOO of a commonical grade turpertine is Visitar ratic is exposed to be in the ange- to for the register and the LOO for a Abure exposed in Sove-Site Acute LOO ways exposed to be these results here to acide or bicyclic tensers hybrid controls is concluded to be low. Subsequent interesting and the LOO for a Abure exposed in Sove-Site Meast et al. Soo advantised acute and the LOO for a Abure posed in Sove-Site Meast et al. Subsequent interesting and the structure is a structure in the structure and the sover particular structure and the LOO for a Abure posed in Sover-Wiender mice is 23.000 mg/ml in TLB - Abure spote-time and the LOO for advantise advantise advantise in the structure and the sover advantise is a structure the sover advantise and the sover advantise is a structure that and the sovere advantise advantise advantise advantise advantise advantise is advantised and the sovere advantise advantis advantise advantise advantise	very low in oral acute toxicity violaties with values greater 13.500 mg/m3 in guina pips, of 12.00-20.000 mg/m3 for 1 4.00-20.000 mg/m3 for 1 4.000 mg/m3 for 1 4.0000 mg/m3 for 1 4.0000 mg/m3 for 1 4.0000 mg/m3 for 1 4.0000 mg/m	BETA.PNIENE & ALPHA. PRIENE	environmental disease and The environment is modified (e.g. by reduced use concentrations of allergents), the disease freque regrarance control allergy is mostly monocupation and anticide to the personal use of constrint products. A Areys controls regrarance, total is listed and the service of the anticident of the service of anticidents. Thus, prevention of regrarance, total is listed and the service of the anticident of the service of the service of the service of the service of the service of the service of the service of the service of the service of the servi	emittils can be severe and contrad sentilization to ic contrad entilization to ic contrad entilization to execute a setting of the setting method of the setting of the method of the setting of the method of the setting of the method of the setting of the investigation of the investigation of the investiga

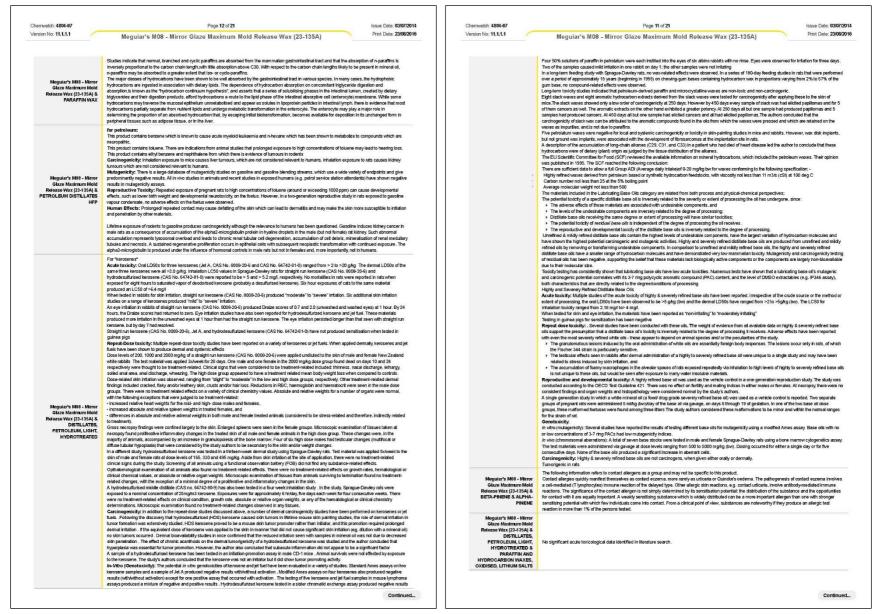
Green Myanmar Environmental Services Co., Ltd.

LIX

Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.



SC Auto (Myanmar) Co., Ltd.

mwatch: 4804-97	Page 10		Chernwatch: 4804-97	Page:		Issue Date: 03
ion No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maxim	num Mold Release Wax (23-135A) Print Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maxi	mum Mold Release Wax (23-135A)	Print Date: 23
	Oral (rat) LD50: >17000 mg/kg ^[2]			Petroleum hydrocarbons may produce pain after direct conta aromatic fraction may produce initiation and lachrymation.	ct with the eyes. Slight, but transient disturbances of the corneal epiti	hellum may also result. Th
		·			al is capable either of inducing a sensitisation reaction in a substantia	al number of individuals, ar
	τοχιζηγ	IRRITATION		of producing a positive response in experimental animals.	where execution and prove the application of	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100 mg/24 hr-mld			een expressed by at least one classification body that the material m	
paraffin wax	dermal (rat) LD50: >2000 mg/kg ^[1]	Skin (rabbil): 500 mg/24 hr-mild			vever, there presently exists inadequate data for making a satisfactor alional exposure may produce cumulative health effects involving or	
	Oral (rat) LD50: >4500 mg/kg ^[1]			Neuromuscular effects result from chronic over-exposure to it	thium compounds. These may include tremor, ataxia, clonus and hy	peractive reflexes. Some
	Oral (rat) LD50: >4500 mg/kg ^[1]			animal studies have shown that exposure during pregnancy r effects. Human data are ambiguous: it is well established that	nay produce birth defects. Other studies with rats, rabbits and monke It lithium can cross the human placenta. Of 225 registered pregnand	lys have not shown teratog des in which the mothers h
				received lithium (as a tranquiliser) there were 25 instances or designated as a human teratogen, ithium therapy is contrain	f congenital malformation. Although pharmacological doses of lithiu	m cannot be unequivocal?
Legend:	 Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical S 	 - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data substances 		Prolonged exposure may produce anorexia, weight loss and	emaciation. The kidneys, behavioural/central nervous system and pe	eripheral nervous system i
				also show adverse effects. Various types of dermatitis (osoriasis, alopecia, cutaneous u	Icers, acne, follicular papules, xerosis culis, exfoliative) may also res	sull fmm chronic skin
	Goilrogenic:			exposure.		
	Gotrogens are substances that suppress the function of the th thyroid, i.e., a gottre	yroid gland by interfering with iodine uptake, which can, as a result, cause an enlargement of the		Lithium ion can be an effective treatment for manic depression influence in producing a response to calcium-induced produced	on. It is thought to bind the enzyme IMP ase (inositol monophosphata: ction of neurotransmitters and hormones thought to be responsible to	se) and thereby mediates for the clinical picture.
	Goltrogens include:			In subchronic studies, rats were exposed to 3 milliequivalent	is L/kg/day (equivalent to 1450 mg for a 70 kg person) but did not ac ey toxicity developed. Dogs survived daity dose of 50 mg LiC/kg for 1	ccumulate Li whilst on a h
	 Vitexin, a flavanoid, which inhibits thyroid peroxidase thus lons such as thiocyanate and perchlorate which decrease 	contributing to goiter. iodide uptake by competitive inhibition; as a consequence of reduced thyroxine and triodothyronine		the experiment on a normal sodium intake, whereas the same	olose was lethal in 12 to 18 days on a low sodium diet: 20 mg LiClkg	g/day resulted in death in
	secretion by the gland, at low doses, this causes an increa	sed release of fhyrotropin (by reduced negative feedback), which then stimulates the gland.		30 days. Repeated or prolonged exposure to mixed hydrocarbons ma	y produce narcosis with dizziness, weakness, initability, concentratio	n and/or memory loss, tre
Manufacto Millio Milliona	 Lithium which inhibits thyroid hormone release. Certain foods, such as soy and millet (containing vitexins) 	and vegetables in the genus Brassica (e.g. broccoli, brussels sprouts, cabbage, horseradish).		in the fingers and tongue, vertigo, olfactory disorders, constri	iction of visual field, paraesthesias of the extremities, weight loss and	d anaemia and degenerat
Meguiar's M08 - Mirror Glaze Maximum Mold	 Caffeine (in coffee, tea, cola, chocolate) which acts on thy 	roid function as a suppressant. ermal absorption is reported to be lower than by the inhalation route. cH. Imonene is rapidly	Chronic	changes in the liver and kidney. Chronic exposure by petrolei the central nervous system, peripheral neuropathies (includi	im workers, to the lighter hydrocarbons, has been associated with viz ng numbness and paraesthesias), psychological and neurophysiolog	sual disturbances, dama; gical deficits, bone marro
Release Wax (23-135A)	distributed to different tissues in the body, readily metabolised a	and eliminated primarily through the urine.		loxicities (including hypoplasia possibly due to benzene) and	hepatic and renal involvement. Chronic dermal exposure to petroleu cking and erosion may also increase susceptibility to infection by mi	im hydrocarbons may res
	Limonene exhibits low acute toxicity by all three routes in anima available on the potential to cause eve and respiratory initiation	als. Limonene is a skin irritant in both experimental animals and humans. Limited data are Autooxidised products of d-limonene have the potential to be skin sensitisers. Limited data are		epidemiological study of petroleum refinery workers has repo	orted elevations in standard mortality ratios for skin cancer along with	h a dose-response relation
	available in humans on the potential to cause respiratory sensi	tisation. Autooxidation of limonene occurs readily in the presence of light and air forming a variety		indicating an association between routine workplace exposur been unable to confirm this finding.	e to petroleum or one of its constituents and skin cancer, particularly	melanoma. Other studie
	Renal turnours induced by limonene in male rats is though to b	s high in situations where contact with oxidation products of limonene occurs. e sex and species specific and are not considered relevant to humans. Repeated exposure			cluding Pinus and Abies genera, should only be used when the level	
	affects the amount and activity of liver enzymes, liver weight, b	lood cholesterol levels and bile flow in animals, increase in liver weight is considered a n reported. From available data it is not possible to identify an NOAEL for these effects. Limonene		peroxide per liter. Based on the published literature mention	t the time of production. Such products should have a peroxide value ng sensitising properties when containing peroxides (Food and Che	e or less than 10 millimole emical Toxicology
	is neither genotaxic or teratogenic nor taxic to the reproductive	system.		11,1053(1973); 16,843(1978); 16,853(1978). In the presence of air, a number of common flevour and fram	rance chemicals can form peroxides surprisingly fast. Antioxidants c	an in most cases minimis
PETROLEUM DISTILLATES HFP	data for CAS 64742-88-7 i.e. CCINFO record 1441735			oxidation.		
ner	The material may produce severe skin initiation after prolonger	s or repeated exposure, and may produce a contact dermatilis (nonallergic). This form of		Fragrance terpenes are generally easily oxidised in air. Non-	oxidised limonene, linalool and caryophyllene turned out to be very v	weak sensitizers, however
ALPHA-PINENE	dermatitis is often characterised by skin redness (erythema) th	ickening of the epidemis.			are strong sensitizers. Of the patients lested 2.6% showed positive r to oxidised carvophyliene, while testing with carvophyliene oxide an	
	Histologically there may be intercellular oedema of the spong given the severity of response, but repeated exposures may pro-	y layer (spongiosis) and intracellular oederna of the epidermis. Prolonged contact is unlikely, oduce severe ulceration.			o oxidised terpenes had fragrance related contact allergy and/or pos	
	For siloxanes:					
	Effects which based on the reviewed literature do not seem to b Some studies indicate that some of the siloxanes may have en	be problematic are acute toxicity, initiant effects, sensitization and genotoxicity. docrine disrupting properties, and reproductive effects have caused concern about the possible		As well as the hydroperoxides produced by linalol, limonene changes in essential oil quality over time. Autoxidation of fra	and delta-3-carene other oxidation and resinification effects progres: grance terpenes contributes greatly to fragrance allergy, which emp	sively causes other fairly i masizes the need of testin
	effects of the siloxanes on humans and the environment.			with compounds that patients are actually exposed to and no	t only with the ingredients originally applied in commercial formulation	ns.
	the toxicity related to short-chained linear and cyclic sloxanes I	bealth effects, and it is therefore not possible to make broad conclusions and comparisons of based on the present evaluation. Data are primarily found on the cyclic siloxanes D4		Chronic solvent inhalation exposures may result in nervous s	ystem impairment and iver and blood changes. [PATT TS]	
	(octam ethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) and the short-linear H	MDS (hexamethyldisiloxane).	Megular's M08 - Mirror	TOXICITY	IRRITATION	
	These three slioxanes have a relatively low order of acute toxic	By by oral, dermal and inhalatory routes and do not require classification for this effect.	Glaze Maximum Mold Release Wax (23-135A)	Nol Available	Not Available	
	Subacute and subchronic toxicity studies show that the liver is	not found sensitizing by skin contact. Data on respiratory sensitization have not been identified. The main larget organ for D4 which also induces liver cell enzymes. This enzyme induction			T States States	
	contributes to the elimination of the substance from the tissues profile similar to that of D4. Subacute and subchronic inhalation	. Primary larget organ for D6 exposure by inhalation is the lung. D5 has an enzyme induction n of HMDS affect in particular the knows and kidneys in rats	distillates, petroleum, light,	TOXICITY	IRRITATION	
	None of the investigated siloxanes show any signs of genotoxic	effects in vitro or in vitro. Preliminary results indicate that D5 has a potential carcinogenic	hydrotreated	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available	
POLYDIMETHYLSILOXANE	effect. D4 is considered to impair fertility in rats by inhalation and is c	lassified as a substance toxic to reproduction in category 3 with the risk phrase R62 ('Possible		Oral (rat) LD50: >5000 mg/kg ^[1]	1	
FOLTOIME IN ILSILOXANE	risk of impaired fertility).	hat D4 has very weak oestrogenic and antioestrogenic activity and is a partial agonist (enhances		TOXICITY	IRRITATION	
	the effect of the estrogen). It is not uncommon for compounds the	hat are weakty		Dermal (rabbit) LD50: >1900 mg/kg ^[1]	* [Shell - Canada]	
	oestrogenic to also have antioestrogenic properties. Comparis D4 is 585,000 times less potent than ethinytoestradiol in the ra	on of the oestrogenic potency of D4 relative to ethinyloestradiol (steroid hormone) indicates that t stain Sprague- Dawley and 3.7 million times less potent than ethinyloestradiol in the Fisher-344	petroleum distillates HFP	dermal (rat) LD50: 28000 mg/kg ^[2]		
	rat strain. Because of the lack of effects on other endpoints de		per orean analiates HPP	Oral (rat) LD50: >19650 mg/kg ^[2]		
		signated to assess oestrogenicity, the cestrogenicity as mode of action for the D4 reproductive		or a (rat) Looo racoo mighty		
	been suggested as the mechanism.	ng a delay of the LH (luteinising hormone) surge necessary for optimal liming of ovulation has		Oral and LDE0 and 500 meter[1]		
	been suggested as the mechanism. Based on the reviewed information, the critical effects of the si	ng a delay of the LH (luteinising hormone) surge necessary for optimal liming of ovulation has loxanes are impaired fertility (D4) and potential carcinogenic effects (uterine tumours in		Oral (rat) LD50: >4500 mg/kg ⁽¹⁾	1	
	been suggested as the mechanism. Based on the reviewed information, the critical effects of the si females). Furthermore there seem to be some effects on vario repeated exposures, the liver (D4), kidney (HMDS) and lung (g a delay of the LH (Lideinising hormone) surge necessary for optimal liming of ovulation has loxanes are impaired fettility (D4) and potential carcinogenic effects (Liferine tumours in La organis following D5 and HMCD5) being the larged organs.	paraffin and hydrocarbon	Oral (rat) LD50: >4500 mg/kg ^[1]	IRRITATION	
	been suggested as the mechanism. Based on the reviewed information, the critical effects of the si fermailes; Furthermore three seem to be some effects on vario repeated exposures, the liver (D4), kidney (HMDS) and lung in A possible oestrogenic effect contributing to the reproductive to caused by another mechanism than cestrogen activity.	ng a délay of the LH (démissing hormonio) surge necessary for optimal timing of oxulation has loxanes are impaind fertility (D4) and potential carchosperic effects (uterine tumours in a organis fallowing), par hang at oppass, oldy of D4 is debated. There seems however to be some indication that this toxicity may be	paraffin and hydrocarbon waxes, oxidised, lithium saits		IRRITATION Not Available	
	been suggested as the mechanism. Based on the reveved information. The critical effects of the si fennales). Furthermore there seem to be some effects on vario repeated exposures. The liver (D4), kidney (HMDS) and lung A possible explorement (Filter Contributing to the reproductive to caused by another mechanism than eatrogen adMy) The material may be initialing to the eye, with protoged cortai	rg a delay of the LH (Lifeinising hormone) surge necessary for optimal timing of oxulation has toxames are impaired fertility (D-A) and potential carchogenic afflicts (Liferine tumours in us organs follow). D's and HMOS) being the target organs. addity of CM is taketaled. There seems however to be some indication that this toxicity may be at causing inflammation. Repeated or protorget exposure to inflants may produce conjunctivitis.	waxes, oxidised, lithium	TOXICITY Not Available	Not Available	
	been suggested as the mechanism. Based on the reveved information. The critical effects of the si fennales). Furthermore there seem to be some effects on vario repeated exposures. The liver (D4), kidney (HMDS) and lung A possible explorement (Filter Contributing to the reproductive to caused by another mechanism than eatrogen adMy) The material may be initialing to the eye, with protoged cortai	ng a délay of the LH (démissing hormonio) surge necessary for optimal timing of oxulation has loxanes are impaind fertility (D4) and potential carchosperic effects (uterine tumours in a organis fallowing), par hang at oppass, oldy of D4 is debated. There seems however to be some indication that this toxicity may be	waxes, oxidised, lithium	TOXICITY Nof Available TOXICITY	Not Available	
	been suggesteld at the mechanism. Based on the mechanism. The critical effects of the sis females, Furthermore there seem to be some affects on vario reperted exposures. The lever (DA), identify (FMDS) and Lange A possible oestrogenic effect confributing to the reproductive to caused by indires. The level has a strateging a darky The metherial may be inflating to the eye, with protoregad costs the losic response method using 30 days. Justicimum Linearity has patchiesd. [Aeou] "Hydrocathon ward describes a group of sold C20 to C26 par	rg a delay of the LH (Lifeinising hormone) surge necessary for optimal timing of oxulation has toxames are impaired fertility (D-A) and potential carchogenic afflicts (Liferine tumours in us organs follow). D's and HMOS) being the target organs. addity of CM is taketaled. There seems however to be some indication that this toxicity may be at causing inflammation. Repeated or protorget exposure to inflants may produce conjunctivitis.	waxes, oxidised, lithium salts	TOXICITY Not Available	Not Available	
	been suggesteld at the mechanism. Based on the mechanism. The critical effects of the sis females, Furthermore there seem to be some effects on vante reperted exposures. The Ver (D)A, sidely (HADS) and Lang A possible oestrogenic effect contributing to the reproductive to catacida y and the mechanism in than ordering and sidely The metherial may be initialing to the eye, with profenged costs human patchiest. [Xerol] "Hydrocarbon wave discribes a group of solid C20 to C36 par will pass through undigested.	rg a delay of the LH (definising hormonic) surge necessary for optimal timing of oxiation has toxanes are impained firstity (D4) and potential carcinogenic efficies (uterne tumours in us organis follow). D5 and HD00 being the langet organis. Let causing inflammatics. Repeated or prolonged exposure to initiants may produce conjunctivitis, oxicity studies. There exerns shows were to be some indication that this toxicity may be diverged to the studies. There exerns shows were to be some indication that this toxicity may be diverged to the studies. There exerns shows were to be some indication that this toxicity may be diverged to the studies. There exerns shows were to be some indication that this toxicity may be diverged to the studies of the studies of the studies of the studies and this hydrocations which are not absorbed in the gastro-intestinal tract and in small quartity may years demonstrates the low loxicity of refined waxes and many guidelines exist for their safe	waxes, oxidised, lithium salts	TOXICITY Nof Available TOXICITY	Not Available	
	been suggesteld at the mechanism. Based on the reviewed information, the critical effects of the sis females; Fulthermore there seem to be some affects on vario reperted expanses, the Net (D), Alder (VABO) and ULR A possible cestogenic effect contributing to the repeaturble to the methermitian possible infalling to the systematic the sec- togenic sector of the sector of the sector of the sector of the Net out response noted carries of sub-sub-critical the Net out response noted carries of sub-sub-sub-sub-sub- tical the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	rg a delay of the LH (Ldeinsing hormone) surge necessary for optimal timing of oxulation has locareare are impaired fertility (Q-4) and potential carchogenic effects (Lderine turnours in us organs following DS and HODS) being he tanget organs. addition of the stability of the stability of the stability of the stability of the stability. There seems however to be some indication that this toxicity may be d causing inflammation. Repeated or prolonged exposure to inflants may produce conjundivitis. oxicity studies The no observable effect level is 450 mg/m3. Non-initiating and non-sensitising in affinic hydrocarbons which are not absorbed in the gastro-intestinal tract and in small quartity many years demonstrates the low loxicity of reflect waves and many guidelines exist for their safe so effects with here products. Subcackarous deposits them reflect to a paratiment to a se	waxes, oxidised, lithium salts	TOXICITY Nel Available TOXICITY Oral (rabbi) LD50:4700 mg/kg ^[2]	Nid Available IRRITATION Skin (rabbit):500 mg/24h-moderate	
PaRaffin WAX	been suggesteld at the mechanism. Based on the reviewed information, the critical effects of the sis females, Fulthermore there seem to be some affects on vator propried explorations. If her (CD), shift (rHADS) and Lung A possible cestrogenic effect contributing to the speculative to the melineal may be initiating to the special control of the the melineal may be initiating to the special control of the Net out response noted carring 50 day sub-chronic inhabition the loci response noted carring 50 day sub-chronic inhabition and the special control of the special control of the special and provide the special control of the special control of the large strategies. The special control of the special control of the large strategies that the response of solid Co20 to Co36 part the whetheread use in cosmic and in cosmic surgery over use Nohrhandrated pits, hiver an or cosmic surgery over been discribed frequency following injection of these material Parafith was and microcrystaline were each administed coal material cosmic surgery over the special cosmic special cosmic special cost and the special cost parafith was and microcrystaline were each administed cost and the special cost of the special cost of the spec	rg a delay of the LH (Lefensing hormone) surge necessary for optimal timing of oxulation has locarear as an impained fertility (QA) and potential carchogenic effects (Lefenie tumours in us organs following DS and HMOS) being the tanget organs. which of CH is delated. There seems however to be some indication that this toxicity may be adding if CH is delated. There seems however to be some indication that this toxicity may be adding if CH is delated. There seems however to be some indication that this toxicity may be adding if CH is delated. There seems however to be some indication that this toxicity may be adding in the second se	waxes, oxidised, litifum saits beta-pinane	TOXICITY Net Available TOXICITY Oral (rabb) L050: 4700 mg/kg ^[2] TOXICITY	Not Avallable IRRITATION Skin (rabbi) 500 mg/24h-moderate IRRITATION	
Paraffin WAX	been suggesteld at the mechanism. Based on the reviewed information, the critical effects of the sis females, Fulthermore there seem to be some affects on vator propried explorations. If her (CD), shift (rHADS) and Lung A possible cestrogenic effect contributing to the speculative to the melineal may be initiating to the special control of the the melineal may be initiating to the special control of the Net out response noted carring 50 day sub-chronic inhabition the loci response noted carring 50 day sub-chronic inhabition and the special control of the special control of the special and provide the special control of the special control of the large strategies. The special control of the special control of the large strategies that the response of solid Co20 to Co36 part the whetheread use in cosmic and in cosmic surgery over use Nohrhandrated pits, hiver an or cosmic surgery over been discribed frequency following injection of these material Parafith was and microcrystaline were each administed coal material cosmic surgery over the special cosmic special cosmic special cost and the special cost parafith was and microcrystaline were each administed cost and the special cost of the special cost of the spec	rg a delay of the LH (definising hormonic) surge necessary for optimal timing of oxiation has locareas are impained firstity (D4) and potential carcinogenic effects (uterne tumours in us organs following D5 and HD03) being leangel organs. which of D4 is adabated. There seems horever to be some indication that his lookidy may be drough D4 is adabated. There seems horever to be some indication that his lookidy may be drough D4 is adabated. There seems horever to be some indication that his lookidy may be drough D4 is adabated. There seems horever to be some indication that his lookidy may be drough D4 is adabated. There seems horever to be some indication that his lookide non-sensitising in affinic hydrocarbons which are not absorbed in the gastro-interfaind first and in small quaritity are system demonstrates the low lookidy of inferted waves and many quarkienes under the thirs affet see effects with these products. Subclaraneous deposits often referred to as parathroma, have under the skih butthese are not normally accessed with inferted normal progression dispess.	waxes, oxidised, litifum saits beta-pinane	TOXICITY Not Available TOXICITY Oral (rabbi) LD50:4700 mg/kg ^[2] TOXICITY Dermal (rabbi) LD50: >2000 mg/kg ^[1] Oral (rabbi) LD50: 3700 mg/kg ^[2]	Not Available IRRITATION Skin (rabbi): 500 mg/24h-moderate IRRITATION Skin (mam): 100% - SEVERE Skin (rabbi): 500 mg/24h - mod	
Paraffin wax	been suggesteld at the mechanism. Based on the reviewed information. The ortical effects of the sis females; Furthermore there seem to be some effects on valor repeated exposures, the herr LOD, kindley (rMBC) and hur low repeated exposures, the herr LOD, kindley (rMBC) and hur low cased by another mechanism han cettogen asthyt the melanism and the initiality to the syntherized access to book response noted carries of source source and he look response noted carries of source source and low book response noted carries of source carries of source to book response noted carries of source source and low book response noted carries of source source and here to book that dama by the initial to the source source and low book that dama by the initial to the source source and use holdwith attained by the initial content is source and been decribed in quarty following injection of these maintained to go dy by the versioned on chinking and the planes in the mecroscopic changes were observed a dudopy.	rg a delay of the LH (Lefensing hormone) surge necessary for optimal trining of oxulation has becames are impaired fertility (CR) and potential carchogenic effects (Lefente tumours in us organs following CD and HDOS) being the larged organs. Surgers (Following CD and HDOS) being the larged organs. Surgers (Following CD and HDOS) being the larged organs. Surgers (Following CD and HDOS) being the larged organism surgers (Following CD and HDOS) being the larged organism surgers (Following CD and HDOS) being the larged organism surgers (Following CD and HDOS) being the larged organism affinic hydrocerboins which are not absorbed in the gestro-intestinal tract and in small quarity affinic hydrocerboins which are not absorbed in the gestro-intestinal tract and in small quarity and the larged HDD being the surgers of the larged se effects with these products. Subcateneous deposite after after and subcepts of the larged set which in intraction of genomes of theme is at a dose hereds of 1000 and aveen day observation period and growth make were normal. There were no modalities and no set dosed, open patch applications to for indite. Two samples produced enginemes in the the ded, open patch applications to for the larged to an employ beaveration period and growth make were normal. There were normal the the dose in the applications to for indite. Two samples produced enginemes in the the dose in the applications to for the larger and the site of the applications to for indite. Two samples produced enginemes in the transfer the site of the applications to for indite. Two samples produced and growth make the the dose of the applications to for indite. Two samples produced enginemes in the transfer the site of the applications to for indite. Two samples produced enginemes in the transfer the site of the applications to for indite. Two samples produced enginemes in the transfer the site of the applications of the applications in the transfer the transfer the transfer the transfer there the tran	waxes, oxidised, liikum saits bota-pinene alpha-pinene	TOXIGITY Nd Available TOXIGITY Oral (rabbl) LD50: 4700 mg/kg ^[2] TOXIGITY Dermal (rabbl) LD50: 52000 mg/kg ^[1] Oral (rab) LD50: 3700 mg/kg ^[2] TOXIGITY	Net Avalable IRRITATION Skin (rabbi): 500 mg/2th-moderate IRRITATION Skin (man): 100% - SEVERE Skin (rabbi): 500 mg/24h - mod IRRITATION	
PARAFFIN WAX	been suggesteld at the mechanism. Based on the reviewed information. The ortical effects of the sis females; Furthermore there seem to be some effects on valor repeated exposures, the herr LOD, kindley (rMBC) and hur low repeated exposures, the herr LOD, kindley (rMBC) and hur low cased by another mechanism han cettogen asthyt the melanism and the initiality to the syntherized access to book response noted carries of source source and he look response noted carries of source source and low book response noted carries of source carries of source to book response noted carries of source source and low book response noted carries of source source and here to book that dama by the initial to the source source and low book that dama by the initial to the source source and use holdwith attained by the initial content is source and been decribed in quarty following injection of these maintained to go dy by the versioned on chinking and the planes in the mecroscopic changes were observed a dudopy.	rg a delay of the LH (definising hormonic) surge necessary for optimal iting of oxidation has locares are impained firstity (D4) and potential carchogenic effices (uterine turnours in D5 part H020); by the harget oppars, biolity of D4 is debated. There seems however to be some indication that this toxicity may be cl causing firstituments in the second or professorate to inflation in the double conjunctivities, oxicity of D4 is debated. There seems however to be some indication that this toxicity may be cl causing firstituments in the second or professorate to inflation in the second or output with the second or professorate and the second or affinic hydrocarbons which are not absorbed in the getTrointeistinal fract and in small quarity many years demonstrates the low loxicity of nethed waxes and many guidelines exist for their safe existing with these products. Subculamous disposite doministic of the market on a professorate and with these products is absorbed in the getTrointeistical and the mether are a solution in markets to be going of methed waxes and many guidelines exist for their safe existing with these products. Subculamous disposite doministicated and the mether of the down and the second and the second and the mether to a solution in methers to be sposed of the methers to as paratificant, have and and the second solution of the methers to a sposed and down levels of the aven day observation period and growth naiss vere normal. There were normatalises and no	waxes, oxidised, litifum saits beta-pinane	TOXICITY Not Available TOXICITY Oral (rabbi) LD50:4700 mg/kg ^[2] TOXICITY Dermal (rabbi) LD50: >2000 mg/kg ^[1] Oral (rabbi) LD50: 3700 mg/kg ^[2]	Not Available IRRITATION Skin (rabbi): 500 mg/24h-moderate IRRITATION Skin (mam): 100% - SEVERE Skin (rabbi): 500 mg/24h - mod	

Green Myanmar Environmental Services Co., Ltd.

LXI

SC Auto (Myanmar) Co., Ltd.

mwatch: 4804-97		Issue Date: 03/07/2014	Chenwatch: 4804-97		Page 7 of 21	Issue Date:
ion No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Print Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze I	Maximum Mold Release Wax (23-135A) Print Date:
	following inhalation. In contrast to most organs, the lung is able to respond to a chemical insuli by first removing or neutralising the initiant an	and then repairing		 Eye wash unit. 		
	the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce	a further lung	Thermal hazards	Not Available		
	damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract initiation often results in an inflamm involving the recruitment and activation of many cell types, mainly derived from the vascular system.	.atory response				
	Inhalation hazard is increased at higher temperatures.		Respiratory protection			
	Units industry a consequently on a first of the descendence way works as according to be approximately and the big of the set descendence in the definition	an of example way	Type A-P Filter of sufficient capa	city. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, AN	SIZ88 or national equivalent)	
	High inheled concentrations of mixed hydrocarbons may produce narcosis characterised by nausea, vomiting and lightheadedness. Inhalation produce severe pulmonary oedema, pneumontits and pulmonary haemorthage. Inhalation of petroleum hydrocarbons consisting substantially	n or aerosois may	When the concentration of parts	particulates in the breathing zone, approaches or exceeds	the "Exposure Standard" (or ES) meninden	protection is required
	weight species (typically C2-C12) may produce irritation of mucous membranes, incoordination, gliddiness, nausea, vertigo, confusion, heada	dache, appetite loss,	Degree of protection varies with i	both face-piece and Class of filter; the nature of protection	varies with Type of filter.	protection is required.
	drowsiness, tremors and anaesthelic stupor. Massive exposures may produce central nervous system depression with sudden collapse and d	Jeep coma:				1
	fatalities have been recorded. Initiation of the brain and/or apnoeic anoxia may produce convulsions. Although recovery following overexposur complete, cerebral micro-haemonthage of focal post-inflammatory scarning may produce epileptiform seizures some months after the exposu	ure. Pulmonary	Required Minimum Protection		tor Full-Face Respirator	Powered Air Respirator
	episodes may include chemical pneumonitis with oedema and haemorrhage. The lighter hydrocarbons may produce kidney and neurotoxic efficiency	ffects. Pulmonary	up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
	inflancy increases with carbon chain length for paraffins and olefins. Alkenes produce pulmonary oedema at high concentrations. Liquid para anaesthesia and depressant actions leading to weakness, dizziness, slow and shallow respiration, unconsciousness, convulsions and death.		up to 50 x ES	-	A-AUS / Class 1 P2	
	may also produce polyneuropathy. Aromatic hydrocarbons accumulate in lipid rich tissues (typically the brain, spinal cord and peripheral nerve		up to 100 x ES		A-2P2	A-PAPR-2 P2 ^
	produce functional impairment manifested by nonspecific symptoms such as nausea, weakness, fatigue and vertigo; severe exposures may pr		^ - Full-face			
	or unconsciousness. Many of the petroleum hydrocarbons are cardiac sensitisers and may cause ventricular fibrillations.			s. B AUS or B1 = Acid gasses. B2 = Acid gas or hydroge	en cvanide/HCN) B3 = Acid gas or hydrogen	cvanide/HCN) F = Sulfur dioxide(SO2) G = Aor
	Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea, anaes slowed reaction time, slurred speech and may progress to unconsciousness. Serious polsonings may result in respiratory depression and m		chemicals, K = Ammonia(NH3),	Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bri	omide, AX = Low boiling point organic compo	unds(below 65 degC)
	Inhalation of essential oil volatiles may produce dizziness, rapid, shallow breathing, tachycardia, bronchial initiation and unconsciousness or		Cartridge respirators should never	er be used for emergency ingress or in areas of unknown v	apour concentrations or oxynep content. They	weater must be warned to leave the contaminated
	Complications include anurla, pulmonary oedem a and bronchial pneumonia.			ours through the respirator. The odour may indicate that th		
	Acute effects from inhalation of high concentrations of vapour are pulmonary initiation, including coughing, with nausea; central nervous syste characterised by headache and dizziness, increased reaction time, fallque and loss of co-ordination	em depression -	properly fitted. Because of these	limitations, only restricted use of cartridge respirators is o	considered appropriate.	
		the set of the set of the set of the set				
	Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, putmonary oedema, progressing to cher serious consequences may result.	mical preumonios;	SECTION 9 PHYSICAL A	ND CHEMICAL PROPERTIES		
	Signs and symptoms of chemical (aspiration) pneumonilis may include coughing, gasping, choking, burning of the mouth, difficult breathing	and bluish				
	coloured skin (cyanosis).		Information on basic phys	sical and chemical properties		
	Accidental ingestion of the material may be damaging to the health of the individual. Large doses of lithium ion have caused dizziness and prostration and can cause kidney damage if sodium intake is limited. Dehydration, weig	initi-loss		Gold paste with a pleasant odour; not miscible with wa	tar 0	
	dermatological effects and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred visio		Appearance	Gold paste with a pleasant odour, not misciple with wa		
	impaired concentration, irritability, lethargy, confusion, disortentation, drowsiness, anxiety, spasticity, delifum, stupor, ataxia (loss of muscle		Physical state	Non Slump Paste	Relative density (Water = 1)	0.86
	sedation, fine and gross fremor, giddiness, twitching and convulsions may occur. Diarrhoea, vomiting and neuromuscular effects such as tre contraction and relaxation of muscles) and hyperactive reflexes may occur as a result of repeated exposure to lithium.	emor, clonus (rapid			Partition coefficient	
	Acute severe overexposure may affect the kidneys, resulting in renal dystunction, albuminutia, oliguria and degenerative changes. Cardiovas	scular effects may	Odour	Not Available	n-octanol / water	Not Available
	also result in cardiac anthythmias and hypotension.				Auto-ignition temperature	alexandra and and a
	The primary target organ for lithium toxicity is the central nervous system. Lithium is therefore used therapeutically on membrane transport pr central nervous system when treating manic-depression. Lithium is moderately toxic with lethal dose of LICI in rats of 526-840 mg/kg body w		Odour threshold	Not Available	(°C)	Not Available
	exposure to 1 meq/L decreased brain weight was observed in male offspring. Chemically, lithium resembles sodium, but is more toxic: in hu				Decomposition	
	result in fatal poisoning. In therapeutic doses, damages on the central nervous system and the kidneys have been reported.		pH (as supplied)	Not Applicable	temperature	Not Available
	Terpenes and their oxygen-containing counterparts, the terpenoids, produce a variety of physiological effects. Pine oil monoterpenes, for exar		Melting point / freezing	The structure of		
	haemorrhagic gastritis characterised by stomach pain and bleeding and vomiting. Systemic effects of pine oils include weakness and centra depression, excitement, loss of balance, headache, with hypothermia and respiratory failure.	al nervous	point (°C)	Not Available	Viscosity (cSt)	100 cps
	Ingestion of petroleum hydrocarbons may produce initiation of the pharynx, oesophagus, stomach and small intestine with oedema and mucos	sal ulceration	Initial boiling point and	Not Available	Molecular weight (g/mol)	Not Applicable
Ingestion	resulting; symptoms include a burning sensation in the mouth and throat. Large amounts may produce narcosis with nausea and vomiling, we	eakness or	boiling range (°C)	Not Available	Molecular weight (grinor)	Not Applicable
	dizziness, slow and shallow respiration, swelling of the abdomen, unconsciousness and convulsions. Myocardial injury may produce arrhythr fibrillation and electrocardiographic changes. Central nervous system depression may also occur. Light aromatic hydrocarbons produce a w	mias, ventricular	Flash point (°C)	66 (PMCC)	Taste	Not Available
	Ingling sensation on contact with taste buds and may anaesthetise the tongue. Aspiration into the lungs may produce coughing, gagging an	nd a chemical	Evaporation rate	Not Available	Explosive properties	Not Available
	pneumonitis with pulmonary osdema and haemonthage.		Flammability	Combustible.	Oxidising properties	Not Available
	Taken internally the essential oils exert a mid initiant effect on the mucous membranes of the mouth and digestive tract which induces a feelin increases sativation.	ig of warmth and			Surface Tension (dyn/cm or	
	Taken by mouth, many essential oils can be dangerous in high concentrations. Typical effects begin with a burning feeling, followed by salival	ation. In the	Upper Explosive Limit (%)	Not Available	mN/m)	Not Available
	stomach, the effect is carminative (relieve flatulence), relaxing the gastric sphincler and encouraging eructation (belching). Further down the	e gut, the effect	Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	VOC = 65.34%
	typically is antispasmodic, Excessive oral doses initiate the gastro-intestinal tract and may cause nausea, vomiting and diarrhoea. Occasional initiation of the urinary tra	and and	Vapour pressure (kPa)	Not Available	Gas group	Not Available
	aggravation of pre-existing inflammatory conditions have been reported. Other effects include dysuria, haematuria, unconsciousness and shi	allow respiration.		Immisciple		
	Complications arising from ingestion of volatile oils include anurla, pulmonary oedema, and bronchial pneumonia.		Solubility in water (g/L)		pH as a solution (1%)	Not Applicable
	Central nervous system depression may lead to stupor and possible respiratory failure whilst central system stimulation may lead to excitement	init and convulsions.	Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
	Pathologic findings include renal degeneration and intense congestion and oedema in the lungs, brain and gastric mucosa. Excretion takes lungs, skin and kidneys.	harennonduna	SECTION 10 STABILITY			
	Most essential oils are reported to be echolic (inducing contractions of the uterus leading to expulsion of a fetus), but abortions cannot be inc	duced at safe	SECTION 10 STABILITY	AND REACTIVITY		
	doses. Considered an unlikely route of entry in commercial/industrial environments. The liquid may produce gastrointestinal discomfort and may be	hannel all	Reactivity	See section 7		
	swalkwed. Ingestion may result in nausea, pain and vom ting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pr	neumonitis		 Silicone fluids are stable under normal storage co 	ndilions	
				Hazardous polymerisation will not occur.		
	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individu	Juals following		 At temperatures > 150 C, silicones can slowly rea 	ct with the oxygen in air.	2000000
	direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation when applied to the healthy intact skin of animals, for up to four hours, such and skin of animals.		Chemical stability	 When heated > 300 C, silicones can slowly depoly Unstable in the presence of incompatible material 	ymense to volatile slioxanes whether or not air le	is present.
	twenty-four hours or more after the end of the exposure period. Skin initiation may also be present after prolonged or repeated exposure; this i form of contact dermatitis (nonallergic). The dermatilis is often characterised by skin redness (erythema) and swelling (oedema) which may	may result in a		Product is considered stable.		
	bilstering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be interceilular oedema of the spongy la	ayer of the skin		 Hazardous polymerisation will not occur. 		
	(spongiosis) and intracellular oedema of the epidermis.	and a set of the set o	Possibility of hazardous	See section 7		
	The material may accentuate any pre-existing dermatilis condition Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.		reactions	Geo Sector 17		
Ekin Contact	Repeated exposure may cause skin cracking, haking or drying rolewing normal nandling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.		Conditions to avoid	See section 7		
Skin Contact	Open cuts, abraded or inflated skin should not be exposed to this material		Incompatible materials	See section 7		
Skin Contact			Hazardous decomposition			
Skin Contact	It is likely that okier pine oils become irritants from the build up of peroxides of delta- 3-carene and limonene etc.	sta Examples the		See section 5		
Skin Contact	It is likely that older pine oils become initiants from the build up of peroxides of della- 3-carene and imonene etc. Entry into the biood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effect	cts. Examine the	products			
Skin Contact	It is lively that dole pine on the bacome intrarts from the build up of percendes of delate 3-cannee and imonane etc. Entry in the build of stream through, the rearming, cuts, attensione, puncture wounds or lealons, may produce systemic injury with harmful effect skip pirot to the use of the material and ensure that any external damage is suitably protected.		products			
Skin Contact	It is likely that dolar pine oits become infrants from the build up of periodise of dellar-3-cannee and limonene etc. Entry into the blood-dream through, for example, cuts, abrasions, puncture wounds or leadors, may produce systemic hjury with harmful effect sith prior to the use of the madeletic and ensure that any edemail damage is suitably protected. 55 Descal Aromatic hydrocantors may produce skin inflation, vasodiation with exythema and changes is modothetial cel permeability. Systemic intoxico	ation, resulting from	products SECTION 11 TOXICOLOG	GICAL INFORMATION		
Skin Contact	It is likely that doker pines on become inflarts from the build up of peroxides of delta-3-canene and timonene etc. Entry into the book-dream hinough, for example, catts, sharinosen, puncher woords or relations, may produce systemic hype with harmful effect skip pirot to the use of the methetial and ensure that any estemal damage is suitably protected. Si Disassi Aromatic hystocations may produce skin initiation, vasciliation with rephram and changes in endothelial cell permeability. Systemic intoxics contact with the light annutlact, is university use to the solver of permeation. Entranding of the side chain appears in increase percutaneous	ation, resulting from s absorption.	•	GICAL INFORMATION		
Skin Contact	It is likely that doke price oils become infrart from the build og operadoss of della 3-cannes and tenomene etc. Emby riot he build-drawn hinough reverspie, cuts, banatone, puncture vecencie or releators, may produce systemic hjury with harmful effect skip prior to be use of the material and ensure that any edemal damage is suitably protected. 55 (bescal Aromatic hydrocarbors may produce skin Inflator, vascolition vitile rephrama and changes is endothrilla cel parme bability. Systemic inflatoric contact with the light aromatic, is unifiedly due to the silverate of permenation. Branching of the side chain appears to increase percutaneous Limited evidence exists, or practice dependence suggests, that the meterial may cause ey initiation in a baberial increase percutaneous	ation, resulting from sabsorption. Kd/or is expected to	•			
	It is likely that doke price oils become inflarts from the build up of persolosis of della 3-canene and timonene etc. Entry into the book-dream hinough, for warnely, out, scheations, puncher woords or relations, may produce systemic hype with harmful effect skip pirot to the use of the methelial and ensure that are setemial damages is suitably protected. Stopson and the set of the methelial and ensure that are setemial damages is suitably protected. Aromatic hystocathors may produce skin initiation, vasoditation with eythema and changes is in endothelial cell permeability. Systemic intoxics contact within ling in contacts, is using value to the solver and of permeations. Entry of the set of which appears is increase percutaneous Linted vidence exists, or practical experience suggests, that the meterial may cause eye intation in a substratial animat. Respondence exists or practical experience have been used animates. Respondence of the solver of the role of the other solver of the meterial marks. Respondence animates and the solver of the solver of the other other solver been and meterial marks. Respondence and the solver of the other other solver been and the processing of the other other solver been and the processing of the other other solver been and the other other solver been and the processing of the other other solver been and the processing of the other solver been and the other other solver been and the processing of the other solver been and the processing of the other solver been and the other bee	ation, resulting from a absorption. w/or is expected to easted or prolonged	SECTION 11 TOXICOLO	cal effects	ness. This may be accompanied by narrowice r	educed alertness, loss of reflexes, lack of convrince
Skin Contact	It is likely that doke price oils become infrart from the build og operadoss of della 3-cannes and tenomene etc. Emby riot he build-drawn hinough reverspie, cuts, banatone, puncture vecencie or releators, may produce systemic hjury with harmful effect skip prior to be use of the material and ensure that any edemal damage is suitably protected. 55 (bescal Aromatic hydrocarbors may produce skin Inflator, vascolition vitile rephrama and changes is endothrilla cel parme bability. Systemic inflatoric contact with the light aromatic, is unifiedly due to the silverate of permenation. Branching of the side chain appears to increase percutaneous Limited evidence exists, or practice dependence suggests, that the meterial may cause ey initiation in a baberial increase percutaneous	ation, resulting from a absorption. w/or is expected to easted or prolonged	SECTION 11 TOXICOLO	cal effects Inhalation of vapours may cause drowsiness and dizzi vertigo.		
	It is listly that doke price also become inflarts from the build up of periodises of delta-3-cannes and tenomes etc. Entry infol the body determs hinking for exemption, cata, sharings, puncher working or relations, may produce systemic highly with hermful effect size prior to be use of the material and ensure that any edemal damage is suitably protected. Silve soil Aromatic hydrocathors may produce skin Inflation, vascolitikon with explanma and changes is modahribial cell permetability. Systemic i toxics, contact with the light aromatics, ils united value to be slow relate of permetability. Branching of the side chain appears to increase percolaneous Limited evidence exists, or practice dependence suggests, that the material may cause eye instalor in a substantial runnease percolaneous produce significant coular isolans which are present twerty four hours or more atterinstitution into the eyes; of experiment at animals. Repending eye cortact may cause inflammation charadresise by lempony refronses dimine the voluction, of the control curval relations which are present twerty four hours or more atterinstitution into the eyes; of experiment at animals. Repending	ation, resulting from a absorption. w/or is expected to easted or prolonged	SECTION 11 TOXICOLO	cal effects Inhalation of vapours may cause drowsiness and dizzi		

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rsion No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Pn	nt Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror	Glaze Maximum Mold R	elease Wax	(23-135A)		Print Date:
CEL TWA: 300 ppm, 900 mg/m3					Observe manufacture's storage and ha	andling recommendations contained	within this SDS.			
(CEL = Chernwetch Exposure Lin	nt)				Atmosphere should be regularly checked	d against established exposure stan	dards to ensure :	safe working conditio	ns are maintained.	
for petroleum distillates:					 Store in original containers. 					
CEL TWA: 500 ppm, 2000 mg/m3					 Keep containers securely sealed. Store in a cool, dry well-ventilated area 					
(CEL = Chernwatch Exposure Lim NOTE M: The classification as a	nt; carcinogen need not apply if it can be shown that the substance contains less than 0.005% w/w benzo[a]pyrene (EINECS No 2	00.028.5) This pot	e annies aniv ta	Other information	 Store away from incompatible materials 	and foodstuff containers.				
certain complex oil-derived substa	inces in Annex IV.		1999 - 2019		 Protect containers against physical dan 	nage and check regularly for leaks.				
European Union (EU) List of the latest ATP	f harmonised classification and labelling hazardous substances. Table 3.1, Annex VI, Regulation (EC) N	o 1272/2008 (C	LP) - up to		 Observe manufacturer's storage and has 	andling recommendations contained	within this SDS.			
NOTE P: The classification as a c	carcinogen need not apply if it can be shown that the substance contains less than 0.01% w/w benzene (EINECS No 200-753-7	7). Note E shall also	apply when the	Conditions for safe stora	ge, including any incompatibilities	6				
substance is classified as a carcin	rogen. This note applies only to certain complex cil-derived substances in Annex VI.		-		 Metal can or drum 					
the latest ATP	f harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) N	0 1272/2008 (C	LP) - up to	Suitable container	 Packaging as recommended by manufa 					
					 Check all containers are clearly labelled 					
xposure controls					Traces of benzene, a carcinogen, may form polymer. Boiling water may soften and weak	when slicones are heated in air abo ren material	ive 230 degrees (C. Concentrated acid	s and bases cause de	egradation of
	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed en	aineerina controls a	an be highly		HAZARD:					
	effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.	0			 Although anli-oxidants may be present, 	in the original formulation, these ma	y deplete over tin	ne as they come into	contact with air.	
	The basic types of engineering controls are:			Storage incompatibility	 Rags wet / soaked with unsaturated hy where oil-soaked materials are folded, t 	drocarbons / drying oils may auto-ox	idise; generate n	leat and, in-time, smo	uider and ignite. This	tis especially i
	Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilab	on that strategically	"adde" and		 Oily cleaning rags should be collected in 	regularly and immersed in water, or	spread to dry in s	safe-place away from	direct sunlight.or sto	red, immerse
	Enclosure andror isolation of emission source which keeps a selected hazard "physically" avay from the worker and ventiation "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of				solvents in suitably closed containers.					
	the particular process and chemical or contaminant in use.				A Analy as ashan the substances of					
	Employers may need to use multiple types of controls to prevent employee overexposure.				 Avoid reaction with oxidising agents 					
	Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to c	obtain adequate pro	dection.	SECTION & EXPOSURE	CONTROLS / PERSONAL PROTE	CTION				
	Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection	1.		SECTION & EXPOSURE	CONTROLOT FERSONAL PROTE	0				
	An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess va	ininn "aerena" vah	othes which in	Control parameters						
	turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.	-jeig cocope too	a dea militari, m							
				OCCUPATIONAL EXPOSURE	LIMITS (OEL)					
	Type of Contaminant:	Air Spi		INGREDIENT DATA						
	solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0 9min.)	5 m/s (50-100	Source	Ingredient	Material name	TWA	STEL	Peak	Notes
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, p		n/s (100-200	Australia Exposure Standards	distillates, petroleum, light, hydrotreated	OII mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Availa
Appropriate engineering	acid fumes, picking (released at low velocity into zone of active generation)	Smin.)	100,000 200	Australia Exposure Standards	petroleum distillates HFP	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Availa
controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generat		n/s (200-500	Australia Exposure Standards	paraffin wax	Paraffin wax (fume)	2 mg/m3	Not Available	Not Available	Not Availa
	zone of rapid sir motion)	frnin.)		EMERGENCY LIMITS						
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very l air motion).	high rapid 2.5-10 §min.)	mis (500-2000	Ingredient	Material name			TEEL-1	TEEL-2	TEEL-3
		windla,		petroleum distillates HFP	Naphiha, hydrotreated heavy; (Isopar L-rev 2)		171 ppm	171 ppm	570 ppm
	Within each range the appropriate value depends on:			petroleum distillates HEP	Solvent naphtha, petroleum, medium aliphar			0.32 mg/m3	3.5 ma/m3	21 mg/m
	Lower end of the range Upper end of the range	ю		alpha-pinene	Trimethylbicyclo(3.1.1)-2-hept-2-ene, 2.6.6-	(alpha-Pinene)		22 ppm	22 ppm	130 ppm
	1: Room air currents minimal or favourable to capture 1: Disturbing room air	rcurrents		polydimethylslicxane	Dimethyl siloxane; (Dimethylpolysiloxane; Sy	them XLT: Sythem 800: Silcone 3	60)	1.5 mg/m3	16 mg/m3	990 mai
	2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of hid	gh toxicity		paraffin wax	Paraffin p-			4.9 mg/m3	4.9 mg/m3	29 mg/m
	3 Intermittent low production 3: High production be			peranni wax	r sissing, ir			4.5 mg/m5	4.5 mgano	20 mgm
	4. Large hood or large air mass in motion 4. Small hood-local co			Ingredient	Original IDLH		Revised IDLH			
	4. Carge nood or arge air mass in motion 4. Cristi nood-local co	sharor only		distillates, petroleum, light,	Not Available		Not Available			
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity ge	inerally decreases v	with the square	hydrotreated	Not Available		NOL AVAIISIDIO			
	of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, acc distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (2	cordingly, after refer 200-400 filmin) for m	rence to vtraction of	petroleum distillates HFP	Not Available		Not Available			
	solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing perform			conditioners, trade secret	Not Available		Not Available			
	apparatus, make it essential that theoretical air velocities are multiplied by factors of 1D or more when extraction systems are			paraffin and hydrocarbon	Not Available		Not Available			
				waxes, oxidised, lithium salts	Not Available		Not Avasable			
				beta-pinene	Not Available		Not Available			
Personal protection				alpha-pinene	Not Available		Not Available			
				polydimethy/silox ane	Not Available		Not Available			
	 Safety glasses with side shields. 			paraffin wax	Not Available		Not Available			
	► Chemical goggles.			other terpenes	Not Available		Not Available			
	· Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy do									
Eye and face protection	lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorp chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal			MATERIAL DATA						
	readily available. In the event of chemical exposure, begin eye imigation immediately and remove contact lens as soon as	s practicable. Lens s	should be removed	For kaolin: Koolin dust appears to base film	igenic potential even in the absence of crystallin	a ailaa Kaalinaala	le and come .	ad forms with the state	ar aften an eriste i	ills marianta
	at the first signs of eye redness or imitation - lens should be removed in a clean environment only after workers have was Current Intelligence Bulletin 591. IAS/NZS 1336 or national equivalent]	shed hands thoroug	hly. [CDC NIOSH	symptoms. Crystalline silica enh	igenic potential even in the absence of crystallin inces the severity of the pneumoconiosis.	ie silica. Radinosis can exist as simp	ae and complical	eu wims with the lat	er unen associated w	an respiratory
				For paraffin waxes and hydrocan	on waxes a complex combination of hydrocarbo	ons obtained from petroleum fraction:	s by solvent crysti	alisation:		
Skin protection	See Hand protection below			TLV TVVA: 2 mg/m3 Animals exposed by inhalation t	o 10 mg/m3 titanium dioxide show no significan	fihmsis nossihiv reversihle tireve e	eaction The arch	iterture of kinn air or	ares remains inter-	
	Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber						a a second a second con	accord to rung of Sp	accerentation indel.	
Handalla A	NOTE:			Odour threshold: 0.25 ppm.						
Hands/feet protection	The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and	other protective equ	lipment, to avoid	The TLV-TWA is protective again A STEL is recommended to one	nst ocular and upper respiratory tract irritation ar ent mucous membrane and ocular irritation and	na is recommended for bulk handling prevention of acute depression of the	g of gasoline base e central neovours	system Because of	nyorocarbon content the wide variation in a	or gasoline va
	all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.			its components, the conversion of	f ppm to mg/m3 is approximate. Sweden recomm	nends hexane type limits of 100 ppm	and heptane and	octane type limits of	300 ppm. Germany de	bes not assign
Body protection	 Contaminated learning south as shoes, bere and watchdands should be removed and descroyed. See Other protection below. 			value because of the widely diffe	ring compositions and resultant differences in to	xic properties.	5	100		3.0
Booy protection	E Overalls			Odour Safety Factor (OSF) OSF=0.042 (gasoline)						
	Overalls. PVC. apron.			for kerosene CAS 8008-20-6						
Other protection	► Barrier cream.			TLV TWA: 100 mg/m3 as total hy	drocarbon vapour Skin A3					
	 Skin cleansing cream. 			OEL TWA: 14 ppm, 100 mg/m3 REL TWA: 150 ppm [Shell]	NUGE, 1900]					
				Land Lond Loop bhur [Ouga]						
			Continued	2410 P3 AN						Cor

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	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)			Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	
Fire incompatibility	Avoid contamination with exidising agents i.e. nitrates, exidising acids, chlorine bleaches, pool chlorine etc. as ignition may re	suit		If skin confact occurs:	
Advice for firefighters	7 Year centant salar men entre gragerice room ander grander, entering ander, entering adder to, poor a termo decide agriculture may re			Immediately remove all contaminated clothing, including footwear. Fush skin and hair with running water (and sees if available).	
	Alert Fire Brigade and tell them location and nature of hazard.			Seek medical attention in event of initiation.	
	 Wear breathing apparatus plus protective gloves. 			For thermal burns:	
Fire Fighting	 Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fine and cool adjacent area. 			 Consider the use of cold packs and lopical artibiotics. For first-degree burns (affecting top layer of skin) 	
FireFighting	DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location.			Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides.	
	If safe to do so, remove containers from path of fire.			Use compresses if running water is not available. Cover with sterile non-adhesive bandage or clean cioth.	
	 Equipment should be thoroughly decontaminated after use. 			 Do NOT apply butter or ointments; this may cause infection. 	
	Combustible. Slight fire hazard when exposed to heat or flame.			 Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) 	
	Heating may cause expansion or decomposition leading to violent rupture of containers.			Cool the burn by immerse in cold running water for 10-15 minutes. Use compresses if running water is not available.	
Fire/Explosion Hazard	 On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. 			Do NOT apply ice as this may lower body temperature and cause further damage.	
	 Mists containing combustible materials may be explosive. 		Skin Contact	 Do NOT break bisters or apply butter or ointments; this may cause infection. Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. 	
	Combustion products include; carbon monoxide (CO) carbon dioxide (CO2) silicon dioxide (SiO2) other pyrolysis products typical CARE: Water in contact with hot liquid may cause feaming and a steam explosion with wide scattering of hot oil and possible sever	e burning organic material burns. Foaming may		To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort):	
	cause overflow of containers and may result in possible fire.			Lay the person flat. Elevate feet about 12 inches.	
SECTION 6 ACCIDENTAL	RELEASE MEASURES			Elevate burn area above heart level, if possible.	
SECTION O ACCIDENTAL				Cover the person with coat or blanket. Seek medical assistance.	
Personal precautions, prot	tective equipment and emergency procedures			For third-degree burns Seek immediate medical or emergency assistance.	
See section 8				In the mean time:	
Environmental precautions				Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave > Separate burned toes and fingers with dry sterile dressings.	e lint in wound.
See section 12				Do not soak burn in water or apply ointments or butter; this may cause infection.	
				 To prevent shock see above. For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway. 	
Methods and material for c	containment and cleaning up			Have a person with a facial burn sit up. Check pulse and breathing to monitor for shock until emergency help arrives.	
	Environmental hazard - contain spillage.			 Cneck pulse and breatning to monitor for shock until emergency help antives. 	
	Avoid contact with skin and eyes.		Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area.	
Minor Spills	৮ Wear impervious gloves and safety goggles. ▶ Trowel up/scrape up.			Other measures are usually unnecessary. If swallowed do NOT induce vomiting.	
	 Place spilled material in clean, dry, sealed container. 			 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and pr 	revent aspiration.
	Flush spill area with water. Clear area of personnel and move upwind.			Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.	
	 Alert Fire Brigade and tell them location and nature of hazard. 		Ingestion	For water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.	
	 Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. 			➤ Seek medical advice. ➤ Avoid giving milk or oits.	
	Stop leak if safe to do so. Contain soill with sand, earth or vermiculite.			 Avoid giving alcohol. 	
	 Contain spiriwin sand, earn or verniculite. Collect recoverable product into labelled containers for recycling. 		Indication of any immedia	te medical attention and special treatment needed	
Major Spills	 Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. 		For acute or short term repeated	exposures to petroleum distillates or related hydrocarbons:	
	Wash area and prevent runoff into drains.		 Primary threat to life, from p Patients should be quickly e 	ure petroleum distillate ingestion and/or inhalation, is respiratory failure. valuated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients is	with inadequate tidal volumes o
	 After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services. 		poor arterial blood gases (p0	D2 50 mm Hg) should be intubated. e hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lin	
	Environmental hazard - contain spillage.		be established in obviously s	ymptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.	nes ana caralac monitors shoak
	CARE: Absorbent materials wetted with occluded oil must be moistened with water as they may auto-oxidize, become self heating a Some oils slowly oxidise when spread in a film and oil on cloths, mops, absorbents may autoxidise and generate heat, smoulder, igr	nite and burn. In the	A chest x-ray should be take Eninephrine (adrenalin) is no	n immediately after stabilisation of breathing and circulation to docum ent aspiration and detect the presence of pneumothorax. If recommended for freatment of bronchospasm because of potential myocardial sensitisation to calecholarnines. Inhaled cardiosel	ective branchadilators (e a
	workplace oily rags should be collected and immersed in water.		Alupent, Salbutamol) are the	preferred agents, with aminophylline a second choice.	
Personal Protective Equipment ad	vice is contained in Section 8 of the SDS.			ts who require decontamination; ensure use of culfed endotracheal tube in adult patients. [Ellenhom and Barceloux: Medical Toxicol	
			Any material aspirated during vol necessary to evacuate the stoma	miling may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means sho ch contents: these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the pa	ould be used if it is considered
SECTION 7 HANDLING AN	ND STORAGE		difficult breathing, as adverse effe	ects of aspiration into the lungs may be delayed up to 48 hours.	
Precautions for safe handl	ing		Lithium produces a generalis	ion appear to relate to duration of exposure as well as to level. ted slowing of the electroencephalogram; line anion gap may increase in severe cases.	
	Containers, even lhose that have been emplied, may contain explosive vapours.		Emesis (or lavage if the pati	ent is obtunded or convulsing) is indicated for ingestions exceeding 40 mg (Li)/Kg. iion; decontamination measures may be more effective several hours after cathartics.	
	Do NOT cut, drill, grind, weld or perform similar operations on or near containers.		Charcoal is not useful. No cl	inical data are available to guide the administration of catharsis.	
	 Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. 		 Haemodialysis significantly i There are no antidotes. 	ncreases lithium clearance; indications for haemodialysis include patients with serum levels above 4 meq/L.	
	Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerg	ed to twice its diameter, then	[Ellenhorn and Barceloux: Medic	al Texicology]	
	<= 7 m/sec). ► Avold splash filing.		In acute poisonings by essential	oils the stomach should be emptied by aspiration and lavage. Give a saline purgative such as sodium sulfate (30 g in 250 ml water)	unless catharsis is already
	 Do NOT use compressed air for filling discharging or handling operations. Avoid all personal contact, including inhalation. 		present. Demulcent drinks may a	iso be given. Large volumes of fluid should be given provided renal function is adequate. [MARTINDALE: The Extra Pharmacopoeia	a, 28th Ed.]
	 Wear protective clothing when risk of exposure occurs. 				
Safe handling	Use in a well-ventilated area. Prevent concentration in hollows and sumps.		SECTION 5 FIREFIGHTIN	IG MEASURES	
	 DO NOT enter confined spaces until atmosphere has been checked. 		Extinguishing media		
	DO NOT allow material to contact humans, exposed food or food utensits. Avoid contact with incompatible materials.		 Water spray or fog. 		
	When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use.		 Alcohol stable foam. Dry chemical powder. 		
	 Avoid physical damage to containers. 		 Dry chemical powder. Carbon dioxide. 		
	 Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. 				
	 Violit countes should be lacingered separately. Lacinger contaminated cioning denote re-use. Use good occupational work practice. 		Special hazards arising fr	om the substrate or mixture	

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	Meguiar's	M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Fint Date. 2000/2010
H227	Combustible liquid		
H315	Causes skin irritation.		
H317	May cause an allergic		
H336	May cause drowsines:		
H304	May be fatal if swallow		
H411 AUH066	Toxic to aquatic life with		
		ry cause slifth dryness and cradding	
Precautionary statement(s			
P210		parks/open flames/hot surfaces No smoking.	
P271	Use in a well-ventilater		
P280		/protective clothing/eye protection/face protection.	
P261	Avoid breathing mist/v		
P273 P272	Avoid release to the en	vronment. Ihing should not be allowed out of the workplace.	
P2/2	Contaminated work cid	ning should not be allowed out of the workplace.	
Precautionary statement(s) Response		
P301+P310		rediately call a POISON CENTER or doctor/physician.	
P331	Do NOT induce vomili		
P362		ত - ciothing and wash before reuse.	
P363	Wash contaminated cl		
P370+P378		shol resistant foam or normal protein foam for extinction.	
P302+P352		plenty of soap and water.	
P312		ER or doctor/physician if you feel unwell.	
P333+P313		occurs: Get medical advice/attention.	
P391	Collect spillage.		
P304+P340	IF INHALED: Remove	victim to fresh air and keep at rest in a position comfortable for breathing.	
Precautionary statement(s) Storage		
P403+P235	Store in a well-ventilate	d place. Keep cool.	
P405	Store locked up.		
P403+P233	Store in a well-ventilate	d place. Keep container tightly closed.	
Precautionary statement(s			
P501	Dispose of contents/co	ntainer in accordance with local regulations.	
SECTION 3 COMPOSITIO		ON INGREDIENTS	
Substances			
See section below for compositio	n of Mixtures		
Mixtures			
CAS No	%[weight]	Name	
64742-47-8	10-30	distillates, petroleum, light, hydrotreated	
64742-48-9.	10-30	petroleum distillates HFP	
Not Available	<20	conditioners, trade secret	
68649-48-9	7-13	paraffin and hydrocarbon waxes, oxidised, ithium salts	
19902-08-0	5-10	beta-pinene	
80-56-8	5-10	alpha-pinene	
63148-62-9	5-10	polydimethytsiloxane	
8002-74-2	5-10	paraffin wax	
Not Available	1-5	other terpenes	
SECTION 4 FIRST AID M	EASURES		
	asuras		
Description of first aid	If this product comes in	exeted with the ever	
Description of first aid me			
	 Wash out immedia 		
Description of first aid me Eye Contact	 Wash out immedia Ensure complete i 	nigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lift	ing the upper and lower lids.
	 Wash out immedia Ensure complete i Seek medical atte 		ing the upper and lower lids.

arrest to			
Chemwatch			
	· · · · · · · · · · · · · · · · · · ·		
	Mirror Glaze Maximum Mold Release Wa	x (23-135A)	
Notor Active			Chernwatch Hazard Alert Code: 2 Issue Date: 02/07/2014
herrwatch: 4804-97 lersion No: 11.1.1.1 lafety Data Sheet according to WH	IS and ADG requirements		Isaue Date: 0307/2014 Print Date: 23/08/2016 L.GHS.AUS.EN
ECTION 1 IDENTIFICATI	ION OF THE SUBSTANCE / MIXTURE AND OF THE COMPAN	Y / UNDERTAKING	
roduct Identifier			
Product name	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)		
Synonyme	Not Available		
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID IN O.S. (contains be	sta-pinene and alpha-pinere)	
Other means of identification	Not Available		
lelevant identified uses o	f the substance or mixture and uses advised against		
Relevant identified uses	Use according to manufacturer's directions. Release agent.		
etails of the supplier of t	he safety data sheet		
Registered company name	Motor Active	Meguiars	
Address	35 Slough Business Park, Holker Street Silverwater NSW 2128 Australia		1 Irvine CA 92714 United States
Telephone	+61 2 9737 9422 1800 350 522	+1 9/9 752 8000 +1	800 347 5700
Fax	+61 2 9737 9414	+1 949 752 5784	
Website Email	www.motoractive.com.au andrew.sprat@motoractive.com.au	https://www.meguiar Not Available	a com/
Email	andrew sprager obtactive.com.au	No. Available	
margency telephone nun	nber		
Association / Organisation	MotorActive		Not Available
Emergency telephone numbers	161 2 9737 9422 (For Genera Information Monday to Friday 8:30am to 5 pm)		Not Available
Other emergency telephone	13 11 26 (In Case of Emergency contact: Poison Information Hotline)		No: Available
numbers			
ECTION 2 HAZARDS ID	ENTIFICATION		
lassification of the subst	tance or mixture		
HAZARDOUS CHEMICA	L. DANGEROUS GOODS. According to the WHS Regulation	ns and the ADG Code.	
CHENWATCH HAZARD RATIN	168		
Min	Max		
lammability 1	0 = Minimum		
oxicity 1	i = Low		
teactivity 1 🔜	1 = Low 2 = Moderate 3 = High		
hronic 2 📰	4 = Extreme		
Poisons Schedule	Not Applicable		
Classification [1]	Flammable Liquid Category 4. Skin Corrosion/Imitation Category 2. Skin Sensitize	r Category 1, Specific tarcet cro	an toxicity - single exposure Category 3
Classification ¹¹ Legend:	(narcotic effects). Aspiration Hazard Category 1. Acute Aquatic Hazard Category 1. Classified by Chernwetch; 2. Classification drawn from HSIS; 3. Classification of	2. Chronic Acuatic Hazard Cate	gory 2
abel elements	Service and a supervision of an and a supervision of the supervision o		
GHS label elements			
SIGNAL WORD			

Green Myanmar Environmental Services Co., Ltd.

LXV

SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET	SPIES	SAFETY DATA SHEET	HECKER
its publication. The information given is designed only as a guidance for safe ha	Indling, use, processing, storage, transportation.	Hazchem Code	
disposal and release and is not to be considered a warranty or quality specificat specific material(s) designated herein and may not be valid for such material(s) in any process or if the material is altered or processed, unless specified in the t	tion. The above information relates only to the used in combination with any other materials or	SS 586:Part 1: 2014:	3YE
Attention in medical use: Avoid medical use accompanying permanent implant in	in human body.	EmS	
		IMDG:	F-E,S-E
		Packaging group	
		SS 586:Part 1: 2014; IMDG; ICAO/IAT	FA: II
		Environmental hazards	
		SS 586:Part 1: 2014; IMDG: ICAO/IAT	TA: nono
		Marine pollutant	
		IMDG:	no
		Special precautions for user	
		please see section 6 - 8	
		Transport in bulk according to Ann	nex II of MARPOL 73/78 and the IBC Code
		Deliveries shall only be made based on appro	priate packaging and in compliance with traffic laws.
		Section 15. Regulatory inform	
			egulations/legislation specific for the substance or mix
		Fire Safety (Petroleum and Flammable Mate Fire Safety (Petroleum and Hammable Mate Fire Safety (Petroleum and Flammable Mate Fire Safety (Petroleum and Flammable Mate Fire Safety (Petroleum and Flammable Mate	rilals) Regulations xylene rials) Regulations ethylbenzene rials) Regulations butanone
		Restricted to professional users.	
		Chemical Safety Assessment	
		No safety checks were carried out on the mixt	ure.
		Section 16. Other informatio	n
		Revision Note	
			Version Changes
			Revision Date: 2015-09-15
			B12628728
		The information provided in this Satety Data S	sheet is correct to the best of our knowledge, information and belief at the d
nd Axalta Coating Systems are trademarks or registered trademarks of Axalta Coating Sys	s 83140-2010332 v1.1 -2) Revision Date: 2015-09-15 tr Print Date: 2015-09-15 err/SG 3-age 12.212	Axaita and Axaita Coating Systems are trademarks or ro- terns, LLC are all attitates. Spiles Heoker(3), Permatryd(4), Permatroct(9), Permatoic(0), Permatest(8), and Radoral(4) Ing Systems, LLC are all attitiates all rights reserved.	gistorod tradomarks of Axalta Coaring Sys 8314042010332 v1.1 5, Permasolid (%, Permacron (%, Priornatic) Revision Date: 2015-

SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET	SAFETY D	ATA SHEET					HECKER
Bioaccumulative potential	CAS #	Chemical Name	Species	Тур	be Expo- sure	Valu	e Met
lo information available.			mouse	LD	time	= 730	malka
Mobility in soil			modae		56	- 100	ngng
to information available.	irritant effe	cts					
	The liquid spl	ashed in the eyes may cause irritation and	reversible damage.				
ection 13. Disposal considerations	Sensitisatio	m					
aste treatment methods		1.2.2.6.6-pentamethyl-4-piperidyl) sebacat	te: methyl 1.2.2,6,6-	pentameth	iyl-4-piperidyl	sebacate; is	obutyl
pose of in accordance with local regulations.	methacrylate.	May produce an allergic reaction.					
oduct							
commendation:	Section	12. Ecological information					
disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be sposed of by incineration.		data available on the product itself. The pro consistent with data from chemical safety				or watercour	ses. The da
cleaned packaging	Toxicity						
commendation:	Aquatic tox	icity					
sporty emptied containers are to be scrap processed or reconditioned.		y aquatic invertebrates					
	CAS #	Chemical Name	Species	Туре	Exposure	Value	Method
ction 14. Transport information	41556-26-7		Daphnia	EC50	time 24 h	20 mg/l	
sport only in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification, aging and Labeling), ADR for road, RID for rail, IMDG for sea and ICAC/IATA for air transport.	82919-37-7	piperidyl) sebacate		EC50	24 h	20 mg/l	
	97-86-9	piperidyl sebacate isobutyl methacrylate	Daphnia	EC50	48 h	23 mg/l	
number SS 588.Part 1: 2014; IMDG; ICAO/IATA: 1263	97-00-9	Isoboliyi metnaci yate	Dapinia	EC30	40 11	23 mg/	
55 300.Fail 1. 2014, IMDO, ICKOIRIA. 1203	Acute and ex	tended toxicity of fishes					
proper shipping name	CAS #	Chemical Name	Species	Туре	Exposure	Value	Method
SS 586:Part 1: 2014; IMDG: ICAO/IATA: PAINT	41556-26-7		Lepomis	LC50	time 96 h	0.97 mg/l	
ansport hazard class(es)		piperidyl) sebacate	macrochirus (Bluegill sun- lish)	1000		dibi nigr	
	82919-37-7		Lepomis	LC50	96 h	0.97 mg/l	
Hazard class SS 586-Part 1: 2014; IMDG: ICAO/IATA: 3		piperidyl sebacate	macrochirus (Bluegill sun-				
	82919-37-7		fish) Oncorhynchus	LC50	96 h	7.9 mg/l	
Subsidiary hazard class	12 200200	piperidyl sebacate	mykiss (rainbow trout)				
SS 588-Part 1: 2014; IMDG: ICAO/IATA: Not applicable.	97-86-9	isobutyl methacrylate	Carassius aura- tus (goldfish)	EC50	72 h	124 mg/l	
Labels	Toxicity with	aquatic plants					
	CAS #	Chemical Name	Species	Туре	Exposure	Value	Method
	97-86-9	isobutyl methacrylate	Algae	EC50	time 96 h	1 mg/kg	
Consist Descriptions							
Special Provisions	Persisten	e and degradability					
SS 586:Part 1: 2014: 640D	No informatio	n available.					
ale and Austre Dantes Durture are tendemode as excitatened tendemode of Austre Dantes P		Castin Dataset as had	amarka at Arraha Carris	- Free		001.0015	0000
alta and Avalla Coating Systems are trademaske or registered trademarks of Avalla Coating System 30 314743011332 v1.1 In LL Car all attliaties. System Horevice, Permatricki, Permanetaldy, Permanetaldy, Permateldy, Permatel	Axaita and Axait tems, LLC and al , Pormafloct/P), F	t Coating Systems are trademarks or registered tradi latilitates. Spies Heoker(3), Permatyd(5), Permasoli Formaloic(6), Permatas(6) and Radetal(6) are registe cane all altilitates. All rights reserved.	emanks of Axaita Coating d(g), Permacron(G), Prior rod trademarks of Axaita	g oys mat(F) Coat-		so1404201 Revision D Print Date:	10332 v1.1 ate: 2015-09-1 2015-09-15
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SALLITUA	TA SHEET				HECH	LEN .	SAFETY DATA SHEET		SPIES HECKER
Chemical	stability						Skin and body protection		
The product i	is chemically stable.							Personnel should wear antistatic clothings made of nature	ral fiber or of high temperature
Possibility	y of hazardous reactions						resistant synthetic fiber.		
No dangerou:	s reaction known under conditions	s of normal use.					Hyglene measures		
Condition	s to avoid							and water or use recognized skin cleanser. Do not use org	ganic solvents!
Stable under	recommended storage and handli	ing conditions (see section	7).				Environmental exposure c		
ncompati	ible materials to avoid						Do not let product enter drains.	For ecological information refer to section 12.	
iot required u	under normal use						1994 1994 1996 1996 1997 10 10		
	s decomposition product:	s					Section 9. Physical	and chemical properties	
lone known		5 d d d d d d d d d d d d d d d d d d d					Information on basic ph	ysical and chemical properties	
							Appearance		
Pootler	11 Toxioological !	rmation					Ferm: liquid Colour: clear Odo	ur: Characteristic Paint Odor	
	11. Toxicological info						Important health, safety ar	d environmental information	
Informatio	on on toxicological effects	6					Property	Value	Method
	servations						pH Melting point/freezing point	no data available Not applicable.	
There is no d	lata available on the product. See	e sections 2 and 3 for detail	s.				Boiling point/boiling range Flash point	114 °C -20 °C	DIN 53213/ISO 1523
Practical ex	xperience						Evapouration rate Flammability (solid, gas)	Slower than Ether not relevant as product is liquid	
Swallowing m	nay cause nausea, diarrhoea, vom ours concentration in excess of the	niting, gastro-intestinal irrita	tion and chemic	al pneumonia	a. Exposure to i	component such as	Lower explosion limit	1 vol-% based on organic solvent content	
mucous mem	bas concernation in excess of the brane and respiratory system initia slude headache, dizziness, fatigue,	ation and adverse effect or	kidney, liver an	d central ner	vous system. S	ymptoms	Upper explosion limit Vapour pressure	12.8 vol-% based on organic solvent content 71.6 hPa	
			isiness and in e		, IOSS OF CONSCI		Vapour density		
Solvents may	cause some of the above effects	by absorption through the					Relative density	no data available 0.91 a/cm ³	20 °C - DIN 53217/ISO 2811
Solvents may		by absorption through the					Relative density Solubility(ies)	0.91 g/cm ³	20°C - DIN 53217/ISO 2811
Solvents may preparation m skin.	r cause some of the above effects nay cause removal of natural fat fro	by absorption through the					Relative density	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section	20°C - DIN 53217/ISO 2811
Solvents may preparation m skin. Acute toxic	v cause some of the above effects nay cause removal of natural fat fro city	by absorption through the					Relative density Solubility(ies) Water solubility Solubility in other solvents Partition coefficient:	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Compositionánformation on ingredient This product is a mixture. For ingredient details see	20 °C - DIN 53217/ISO 2811
Solvents may preparation m skin. Acute toxic	v cause some of the above effects nay cause removal of natural fat fro city	by absorption through the					Relative density Solubility(ies) Water solubility Solubility in other solvents	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients	DIN 51794 based on organic sol
Solvents may preparation m skin. Acute toxic	v cause some of the above effects nay cause removal of natural fat fro city	by absorption through the		t dermatitīs a Expo-			Relative density Solubility(fes) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For ingredient details see section 12 393 °C This product is a mixture. For further information see	
Solvents may preparation m skin. Acute toxic Acute inhala CAS #	r cause some of the above effects nay cause removal of natural fat fro sity ation toxicity Chemical Name	by absorption through the om the skin resulting in nor Species	n allergic contac Type	t dermatitis a Expo- sure time	nd absorption t Value	hrough the	Rielative density Solubility (rice) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C)	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For ingredient details see section 12. 393 °C This product is a mixture. For further information see section 10. Not applicable.	DIN 51794 based on organic sof
Solvents may reparation m kin. Acute toxic Acute inhala CAS # 1330-20-7 110-43-0	r cause some of the above effects nay cause removal of natural fat fro city ation toxicity Chemical Name xytene heptan-2-one	by absorption through the om the skin resulting in nor Species rat rat	Type LC50 LC50	Expo- sure time 4 h 4 h	Value 5,000 ppm 2,000 ppm	hrough the	Helative density Solubility(fes) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C1) Explosive properties	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For ingredient details see section 12 393° C This product is a mixture. For further information see section 10.	DIN 51794 based on organic sof content
iolvents may reparation m kin. Acute toxic CAS # 1330-20-7 110-43-0 108-10-1	r cause some of the above effects nay cause removal of natural fat fro sity ation toxicity Chemical Name xytene heptan-2-one 4 methylpentan 2-one	by absorption through the om the skin resulting in nor Spocies rat rat rat	Type LC50 LC50 LC50	Expo- sure time 4 h 4 h 4 h	Value 5,000 ppm 2,000 ppm => ppm 2,000	hrough the	Rielative density Solubility (rice) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C)	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingrodients This product is a mixture. For ingredient details see section 12 393°C This product is a mixture. For further information see section 10. Not applicable. Not explosive	DIN 51794 based on organic sel content
CAS # 1330-20-7 10-43-0 100-41-4 100-41-4 100-41-5	r cause some of the above effects nay cause removal of natural fat fro city ation toxicity Chemical Name xytene heptan-2-one	by absorption through the om the skin resulting in nor Species rat rat	Type LC50 LC50	Expo- sure time 4 h 4 h	Value 5,000 ppm 2,000 ppm => ppm	hrough the	Helative density Solubility(fes) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C1) Explosive properties	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingrodients This product is a mixture. For ingredient details see section 12 393°C This product is a mixture. For further information see section 10. Not applicable. Not explosive	DIN 51794 based on organic sof content
CAS # 1330-20-7 10-43-0 100-41-4 100-41-4 100-41-5	r cause some of the above effects nay cause removal of natural fat fro sity ation toxicity Chemical Name xytene heptan-2-one 4 - methylpentan -2-one ethylbenzene	by absorption through the om the skin resulting in nor Spocies rat rat rat rat	Type LC50 LC50 LC50 LC50 LC50	Expo- sure time 4 h 4 h 4 h	Value 5,000 ppm 2,000 ppm 2,000 ppm 4,000 ppm	hrough the	Rielative density Solubility (rise) Water solubility Solubility in other solvents Parition coefficient: n-octanolwater Auto-ignition tomporature Decomposition temperature Viscosity (23 ^ (*) Explosive properties Oxidizing properties Oxidizing properties Other data Solvent separation test	 0.91 g/cm³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For ingredient details see section 12. 393 ° C This product is a mixture. For further information see section 10. Not applicable. Not explosive not oxidizing 	DIN 51794 based on organic sof content ISO 2431 - 1993 ADR/RID
Solvents may preparation m skin. Acute toxic Acute inhala CAS # 1330-20-7 110-43-0 108-10-1 100-41-4 108-88-3	r cause some of the above effects nay cause removal of natural fait fro city ation toxicity Chemical Name xylene 4 methylpentan 2 one ethylpenzene toluene	by absorption through the om the skin resulting in nor Spocies rat rat rat rat	Type LC50 LC50 LC50 LC50 LC50	Expo- sure time 4 h 4 h 4 h	Value 5,000 ppm 2,000 ppm 2,000 ppm 4,000 ppm	hrough the	Rielative density Solubility(rise) Water solubility Solubility in other solvents Partition coefficient: n-octanolwater Auto-ignition tomporature Decomposition temperature Viscosity (23 ° 1) Explosive properties Oxidizing properties Oxidizing properties Other data Solvent separation test Content of volatile componenti (including water)	0.91 g/cm² appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For ingredient details see section 12 393 °C This product is a mixture. For further information see section 10. Not applicable. Not explosive not oxidizing	DIN 51794 based on organic solv content ISD 2431 - 1993 ADR/RID Basis Vapour pressure >= 0.01 kPa
olvents may reparation m kin. ccute toxic cute inhala CAS # 1330-20-7 110-43-0 108-10-1 100-41-4 108-88-3 cute derma	r cause some of the above effects nay cause removal of natural fait fro city ation toxicity Chemical Name xylene 4 methylpentan 2 one ethylpenzene toluene	by absorption through the om the skin resulting in nor Spocies rat rat rat rat	Type LC50 LC50 LC50 LC50 LC50	t dermatilitis a Expo- sure time 4 h 4 h 4 h 4 h 4 h 5 kpo-	Value 5,000 ppm 2,000 ppm 2,000 ppm 4,000 ppm	hrough the	Helative density Solubility(fes) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C1) Explosive properties Oxidizing properties Other data Solvent separation test Content of valatile components	 0.91 g/cm³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For ingredient details see section 12. 393 ° C This product is a mixture. For further information see section 10. Not applicable. Not explosive not oxidizing 	DIN 51794 based on organic soli content ISO 2431 - 1993 ADR/RID Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.01 kPa
Divents may eparation m in. cute toxic cute inhala CAS # 330-20-7 10-43-0 08-10-1 00-41-4 08-88-3 cute derma	r cause some of the above effects nay cause removal of natural fat fro sity stion toxicity Chomical Name xylene heptan-2-one 4 metylpentan 2-one ethylpenzene toluene al toxicity	by absorption through the om the skin resulting in nor Spocies rat rat rat rat rat rat mouse	Type LCS0 LCS0 LCS0 LCS0 LCS0 LCS0	Expo- sure time 4 h 4 h 4 h 4 h	Value 5,000 ppm 2,000 ppm 2,000 ppm 2,000 4,000 ppm 5,300 ppm	Mothod	Helative density Solubility(fes) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° (*) Explosive properties Oxidizing properties Other data Solvent separation test Content of volatile componenti (including water) organic solvent content	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition information on ingrodients This product is a mixture. For ingredient details see section 12. 393 ° C This product is a mixture. For further information see section 10. Not applicable. Not applicable Not explosive not oxidizing 5 6 64.4 %	DIN 51794 based on organic solv content ISD 2431 - 1993 ADR/RID Basis Vapour pressure >= 0.01 kPa
olvents may expandition m in. cute toxic cute inhala CAS # 330-20-7 10-43-0 08-10-1 00-41-4 08-88-3 cute derma CAS #	r cause some of the above effects nay cause removal of natural fat fro city ation toxicity Chomical Name xylene heptan-2-one 4-methylpentan 2-one ethybenzene toluene al toxicity Chemical Name	by absorption through the om the skin resulting in nor Spocies rat rat rat rat rat rat mouse	Type LCS0 LCS0 LCS0 LCS0 LCS0 LCS0	Expo- sure time 4 h 4 h 4 h 4 h 5 kpo- sure	Value 5,000 ppm 2,000 ppm 2,000 ppm 2,000 4,000 ppm 5,300 ppm	Mothod	Rielative density Solubility (rées) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C) Explosive properties Oxidizing properties Oxidizing properties Other data Solvent separation test Content of volatile components (including water) organic solvent content European VOC	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For further information see section 12 393 °C This product is a mixture. For further information see section 10. Not explosive not oxidizing <pre> </pre>	DIN 51794 based on organic solv content ISO 2431 - 1993 ADR/RID Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.01 kPa
Induentis may reparation in kin. Acute toxic Acute toxic Acute toxic Acute toxic Acute toxic III0-43-0 II0	r cause some of the above effects nay cause removal of natural fait fro city ation toxicity Chomical Name xylene heptan-2-one 4-methylpentan -2 one ethylbenzene toluone al toxicity Chemical Name xylene	by absorption through the om the skin resulting in nor Species rat rat rat rat mouse Species	Typo LCS0 LCS0 LCS0 LCS0 LCS0 LCS0 LCS0 LCS0	Expo- sure time 4 h 4 h 4 h 4 h 5 kpo- sure	Value 5,000 ppm 2,000 ppm 2,000 ppm 2,000 ppm 5,300 ppm 5,300 ppm	Mothod	Rielative density Solubility (rise) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C) Explosive properties Oxidizing properties Oxidizing properties Other data Solvent separation test Content of valaitie component (Including water) organic solvent content European VOC	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For further information see section 12 393 °C This product is a mixture. For further information see section 10. Not explosive not oxidizing <pre> </pre>	DIN 51794 based on organic solv content ISO 2431 - 1993 ADR/RID Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.01 kPa
Solven'is may preparation m skin. Acute toxic Acute inhata CAS # 1330-20-7 110-43-0 108-10-1 100-41-4 108-80-3 Acute derma CAS # 1330-20-7 Acute oral to	r cause some of the above effects nav cause removal of natural fat fro clity ation toxicity Chemical Name heptan - 2 one 4 methylpentan - 2 one ethylbenzene toluone al toxicity Chemical Name xylene	by absorption through the om the skin resulting in nor Species rat rat rat rat mouse Species	Typo LCS0 LCS0 LCS0 LCS0 LCS0 LCS0 LCS0 LCS0	t dermatitis a Expo- sure time 4 h 4 h 4 h 4 h 4 h 5 kpo- sure	Value 5,000 ppm 2,000 ppm 2,000 ppm 2,000 ppm 5,300 ppm 5,300 ppm	Mothod	Fielative density Solubility (res) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C) Explosive properties Oxidizing properties Other data Solvent separation test Content of volable component content of volable component European VOC Section 10. Stability Reactivity	0.91 g/cm ³ approciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For ingredient details see section 12 393°C This product is a mixture. For further information see section 10. Not explosive not oxidizing	DIN 51794 based on organic soli content ISO 2431 - 1993 ADP/RID Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.1 hPa
olvents may reparation m kin. cute toxic cute inhala CAS # 1330-20-7 110-43-0 100-41-4 10	r cause some of the above effects nay cause removal of natural fait fro city ation toxicity Chomical Name xylene heptan-2-one 4-methylpentan -2 one ethylbenzene toluone al toxicity Chemical Name xylene	by absorption through the om the skin resulting in nor Species rat rat rat rat mouse Species	Typo LCS0 LCS0 LCS0 LCS0 LCS0 LCS0 LCS0 LCS0	t dermatifis a Expo- sure time 4 h 4 h 4 h 4 h 4 h Expo- sure time	Value 5,000 ppm 2,000 ppm 2,000 ppm 2,000 ppm 5,300 ppm 5,300 ppm	Mothod	Fielative density Solubility (res) Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Auto-ignition tomporature Decomposition temperature Viscosity (23 ° C) Explosive properties Oxidizing properties Other data Solvent separation test Content of volable component content of volable component European VOC Section 10. Stability Reactivity	0.91 g/cm ³ appreciable miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients This product is a mixture. For further information see section 12 393 °C This product is a mixture. For further information see section 10. Not explosive not oxidizing <pre> </pre>	DIN 51794 based on organic soli content ISO 2431 - 1993 ADP/RID Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.1 hPa
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Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SAFETY DATA SI	HEET					/		
CAS-No.	Chemical Name	Source	Time	Туре	Value	Note		
				STEL	125 ppm		8	
78-93-3	butanone	ACGIH	15 min	STEL	300 ppm			
			8 hr	AWT	200 ppm			
		Singapor	θ	TWA	200 ppm			
				STEL	885 mg/m3			
				TWA	590 mg/m3			
				STEL	300 ppm			
108-88-3	toluene	ACGIH	8 hr	TWA	20 ppm			
		Singapor	c	TWA	50 ppm			
				TWA	188 mg/m3			
local exhaust ventila suitable respiratory Protective equip		nt to maintain concentratio ask with gas filter, type A (ns of part EN 141)	iculates and				
ocal exhaust ventila suitable respiratory Protective equip Personal protective Respiratory prot When workers are f Hand protection The breakthrough ti	ation, if these are not sufficier protection must be worn. Me iment equipment should be worn to tection acing concentrations above the me of gloves is unknown for i	nt to maintain concentratio ask with gas filter, type A (p prevent contact with eyes ho exposure limit they mus	ns of part EN 141) , skin or o t use app	iculates and lothing. ropriato cor	d solvent vapour	below the OEL,		
local exhaust vertile suitable respiratory Protective equip Personal protective Respiratory prot Whon workers are f Hand protection The breakthrough ii substances in the pr 	ation, if these are not sufficier protection must be worn. Me iment equipment should be worn to tection accing concentrations above the me of gloves is unknown for t reparation.	nt to maintain concentratic ask with gas filter, type A (o prevent contact with eyes he cxposuro limit they must he product itself. The glov Glove material	ns of part EN 141) , skin or c at use app e materia Glo	iculates and lothing. I given is re ve thickness	tifiod respirators commended on s Break throug	below the OEL,		
local exhaust ventils suitable respiratory Protective equip Personal protective Respiratory prot When workers are f Hand protection The breakthrough ti substances in the p	ation, if these are not sufficier protection must be worn. Me iment equipment should be worn to tection accing concentrations above the me of gloves is unknown for t reparation.	nt to maintain concentratic ask with gas filter, type A (o prevent contact with eyes he cxposuro limit they must he product isself. The glov Glove material Nitrile rubber	ns of part EN 141) ., skin or c .t uso app e materia Glo 0.3:	lothing. Iothing I given is re ve thickness 3 mm	tifiod rospirators commended on s Break throug 30 min	below the OEL,		
local exhaust vertile suitable respiratory Protective equip Personal protective Respiratory prot When workers are 16 Hand protection Hand protection The breakthrough II substances in the pr <u>Chemical Nan</u> <u>xylene</u>	ation, if these are not sufficier protection must be worn. Me iment equipment should be worn to tection accing concentrations above the me of gloves is unknown for t reparation.	nt to maintain concentratic ask with gas filter, type A (o prevent contact with eyes the cxposuro limit they must the product itself. The glov <u>Cilove material</u> Nitrile rubber Viton (R) ^(B)	ns of part EN 141) , skin or c at use app e materia Glo 0.3; 0.7	lothing. Iothing I given is re ve thickness 3 mm mm	tified respirators commended on <u>s Break throu</u> 30 min 480 min	below the OEL,		
local exhaust vertili suitable respiratory Protective equip Personal protective Respiratory prot Whon workers are if Hand protection The breakthrough if substances in the pi <u>Chemical Nan</u> <u>xylene</u> butanone The protective glove compat billy, and are product is not avoid these can easily data	ation, if these are not sufficier protection must be worn. Me iment equipment should be worn to tection acing concentrations above if me of gloves is unknown for t reparation. ne e should be checked in each n ni-static properties). When it striftig glove is to be used. At able (e.g., maintenance work) pecified in section 3 of this 51 at and the permeation breakt	nt to maintain concentration ask with gas filter, type A (prevent contact with eyes he exposure limit they mut he product itself. The glov Glove material Nitrile rubber Viton (R) ⊕ Viton (R) ⊕ Case for their work specifit is intercontamination, the glo a buty or fluorocarbon ru rough times. Care should be sour rough times. Care should be	ns of part EN 141) , skin or o at uso app e materia Glo 0.3: 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Iothing. Iothing. I given is re ve thickness mm mm (e.g. mect on a nitrile : be changed s should be the glove suy when worki information	tsolvent vapour tifiod rospirators commended on <u>s</u> Break Ihrouy 30 min 10 min nanical stability, j clik imore che che susci Whon ski piera sio approjera sio appro-	below the OEL, basis of the pastis of the the time hands into the exposure may priate type to ged articles as glove supplars		
local exhaust vertilis suitable respiratory Personal protective equip Personal protective Respiratory prot Whon workers are f Hand protection The breakthrough ii substances in the p <u>Chemical Nan</u> xylene butanone The protective glove compatibility, and ar group 3 (e.g. Demm argroup 4 (e.g. not avoid occur to materials s use with this product these can easily dan replaced immediate	ation. If these are not sufficier protection must be worn. Ma ment equipment should be worn to tection acting concentrations above the me of gloves is unknown for the reparation. me a should be checked in each in htti-static properties). When it atriftig glove) is to be used. At atriftig glove is to be used. At atriftig glove is to be used. At atriftig glove is to be used. At at and the permeation breakting internance and replacement in	nt to maintain concentration ask with gas filter, type A (prevent contact with eyes he exposure limit they mut he product itself. The glov Glove material Nitrile rubber Viton (R) ⊕ Viton (R) ⊕ Case for their work specifit is intercontamination, the glo a buty or fluorocarbon ru rough times. Care should be sour rough times. Care should be	ns of part EN 141) , skin or o at uso app e materia Glo 0.3: 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Iothing. Iothing. I given is re ve thickness mm mm (e.g. mect on a nitrile : be changed s should be the glove suy when worki information	tsolvent vapour tifiod rospirators commended on <u>s</u> Break Ihrouy 30 min 10 min nanical stability, j clik imore che che susci Whon ski piera sio approjera sio appro-	below the OEL, basis of the pastis of the the time hands into the exposure may priate type to ged articles as glove supplars		
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SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET



Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.

Section 8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is boing used.

Control parameters

National occupational exposure limits

Singapore. OELs (Workplace Safety and Health (General Provisions) Regulations 2006 (S 134/2006), First Schedule: Permissible Exposure Limits of Toxic Substances, Feb. 28, 2006)

CAS No.	Chemical Name	Source	Time	Туре	Value	Note
67-64-1	acetone	ACGIH	15 min	STEL	750 ppm	
			8 hr	TWA	500 ppm	
		Singapo	re	TWA	750 ppm	
				STEL	2,380 mg/m3	
				TWA	1,780 mg/m3	
				STEL	1.000 ppm	
1330-20-7	xylene	ACGIH	15 min	STEL	150 ppm	
			8 hr	TWA	100 ppm	
		Singapo	0	TWA	100 ppm	
				STEL	651 mg/m3	
				TWA	434 mg/m3	
				STEL	150 ppm	
110-43-0	heptan-2-one	ACGIH	8 hr	TWA	50 ppm	
		Singapo	0	TWA	50 ppm	
				TWA	233 mg/m3	
108-10-1	4-methylpentan-2-one	ACGIH	15 min	STEL	75 ppm	
			8 hr	TWA	20 ppm	
		Singapo	e	TWA	50 ppm	
				STEL	307 mg/m3	
				TWA	205 mg/m3	
				STEL	75 ppm	
100-41-4	ethylbenzene	ACGIH	8 hr	TWA	20 ppm	
		Singapo	re	TWA	100 ppm	
				STEL	543 mg/m3	
				TWA	434 mg/m3	
talta and Axalta C ms, LLC arc all at ?ormaficeti⊕, Pon g Systems, LLC a	loating Systems are trademarks or registered trader tillates. Spies Heoker(3), Permarkyd(3), Permasolid(maloic), Permatast(3) and Radera(3) are registere ne all attiliates. All rights reserved.	narks of Axalta Coat 91, Permacron(3), Pr d tradomarks of Axal	ng Sys omat(P) la Coat-		831404201 Revision D Print Date: en/SG Peg	ate: 2015-09-15 2015-09-15

Green Myanmar Environmental Services Co., Ltd.

LXIX

SC Auto (Myanmar) Co., Ltd.

or firefighters Explosion Hazards Figlid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier d may spread along floors. Frotective Equipment and Fire Fighting Procedures propriate: Full protective flamoproof clothing. Wear self contained breathing apparatus for five fighting if necessary. In fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses. A CACCIDENT For Equipment and emergency procedures Proceedures P	 Skin contact De NoT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with scap and water or use recognized skin cleanser. If skin irritation persists, call a physician. Inhalation Advance of a physician of a physician of the scape of a ccidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persical a physician. Ingestion Is wallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest. Indetinon of vapour or mist. Move to a physician advice and the scape of the scape of advice and the scape of advice and the scape of the sc
Iquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier draws spread along floors. Interfective Equipment and Fire Fighting Procedures porpriate: Full protective flamoproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses. In C. Accidental release measures I precautions, protective equipment and emergency procedures velt-ventilated place. Keep away from sources of ignition. Do not inhale vapours. mental precautions order drains. Notify the respective authorities in accordance with local law in the case of contamination of s or waster systems. Please avoid any emission of volatile organic compounds as possible. as and materials for containment and cleaning up d collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and nationer for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents. be to other sections h safety directives (soc chaptors 7 and 8). h safety directives (soc chaptors 7 and 8).	use recognized skin cleanser. If skin irritation persists, call a physician. Inhalation Axis inhalation of vapour or mist. Move to fresh air in case of accidential inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms personal a physician. Ingestion If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest. Most Important Symptoms/effects, acute and delayed Inhalation May cause nose and throat irritation. May cause nonous system depression characterized by the following progressive stoppe headenets, dizziness, nauses, staggering gait, confusion, unconscious needs. Reports have associated repeated and prolonge overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activation/interfects may be primarine. The activation/in the activation/interfects may be primarianet. Individuals with ung or benational brain and nervous system damage. If this product mixed with an isocyanate activation has the solution/in the activation/interfects may be primarianet. Individuals with ung or benational brain and nervous system damage. If this product mixed with an isocyanate activation interfects may be primarianet. Individuals with ung or benational brain and nervous system damage. If this product mixed with an isocyanate activation is become and solvents in the activation/in the following health effects may pay: Exposure to solvents with permanent lung semination. Syntomics is done and and move a start expection with stores as other attribution problems in prior actions to isocyanates may cause a terms of the product. Ingestion May result in gastrointestinal distress. Skin or exection and privates. Repeated or prolonged liquid contact may cause skin irritation with discomfort and erroration. If this product is mixed with an isocyanate, skin contact may cause sensitization.
d may spread along floors. rotective Equipment and Fire Fighting Procedures propriate: Full protective flamoproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In fife, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses. A Cocidental release measures I precautions, protective equipment and emergency procedures well-ventilated place. Keep away from sources of ignition. Do not inhele vapours. mental precautions product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of s or waste water systems. Please avoid any emission of volatile organic compounds as possible. s and materials for containment and cleaning up d collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and namer of disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents. te to other sections h safety directives (soo chapters 7 and 8). h a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be n any process in which this mixture is being used.	Inhalation Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms personal aphysician. Ingestion If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest. Most Important Symptoms/effects, acute and delayed Inhalation May cause nose and throat irritation. May cause norvous system dopression charactorized by the following progressive stopp headabet, alziness, nauses, staggering gait, contusion, unconsciousness. Reports have associated repeated and prolonger oversposure to solvents with permanent brain and nervous system dopression charactorized by the following progressive stopp headabet, advicent (see MSDS for the activation), the following headth effects may apply: Exposure to iscoyanates may cause response to solvents with permanent brain and nervous system damage. If this product mixed with an iscoyanate activator/hardener (see MSDS for the activation), the following progressive stopp breathing persons there solve to biscoyanates may cause or branching problems or prior reactions to is iscoyanates must not be exposed to vapors or spray mist of this product. Ingestion May result in gastrointestinal distress. Shin or eye contact May cause initiation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and ermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.
porportate: Full protective flameproof clothing. Wear self contained breathing apparatus for five fighting if necessary. In fifte, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses. A Cocidental release measures I precautions, protective equipment and emergency procedures well-ventilated place. Keep away from sources of ignition. Do not inhale vapours. mental precautions product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of s or water water systems. Please avoid any emission of volatile organic compounds as possible. s and materials for containment and cleaning up d collect spillage with non-comicustible absorbent materials, e.g. sand, earth, verniculite, diatomaceous earth and nationer for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents. te to other sections h safety directives (soo chaptors 7 and 8). h tablety of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be n any process in which this mixture is being used.	stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persi- call a physician. Ingestion If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest. Most Important Symptoms/effects, acute and delayed Inhalation May cause nose and throat irritation. May cause norvous system depression charactorized by the following progressive steps headabet, atzines, nauses, staggering gait, contusion, unconsciousness. Reports have associated repeated and prolonger oversposure to solvents with permanent brain and nervous system depression charactorized by the following progressive steps headabet, atzines, nauses, staggering gait, contusion, unconsciousness. Reports have associated repeated and prolonger oversposure to solvents with permanent brain and nervous system depression charactorized by the following stropters at activator/hardener (see MSDS for the activation), the following health effects may apply: Exposure to isocyanates any cause respiratory sensitivation. This effect may be permanent. Symptoms include an astimat-like reaction with storness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated or prosposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuats with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product. Ingestion May result in gastrointestinal distress. Skin or eye contact May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.
If fire, cool tanks with water spray. Do not allow run-off from fire lighting to enter drains or water courses. A. Accidental release measures I precautions, protective equipment and emergency procedures well-ventilated place. Keep away from sources of ignition. Do not inhale vapours. mental precautions aroduct enter drains. Notify the respective authorities in accordance with local law in the case of contamination of s or water water systems. Please avoid any emission of volatile organic compounds as possible. s and materials for containment and cleaning up d collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and nationer for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents. te to other sections h safety directives (soo chaptors 7 and 8). h safety of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be n any process in which this mixture is being used.	cell a physician. Ingestion If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest. Most Important Symptoms/effects, acute and delayed Inhalation May cause nose and throat irritation. May cause norvous system depression characterized by the following progressive stope headache. dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonge overexposure to solvents with permanent brain and nervous system damage. If this product hired with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply. Exposure to isocyanates may cause respiratory sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung inconton with may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates may not be exposed to vapore or spray mist of this product. Ingestion May result in gastrointestinal distress. Skin or eye contact May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.
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Well-ventilated place. Keep away from sources of ignition. Do not inhale vapours. mental precautions	May cause nase and throat irritation. May cause nervous system depression characterized by the following progressive steps headache, dizziness, nausea, staggering gait, contrusion, unconsciousness. Reports have associated repeated and priorage overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activatorihardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanate stary cause respiratory ansistation. This effect may be permanent. Symptoms include an asthume-like reactions the storkets of breath, wheezing, cough or permanent lung sensitization. This effect may be depend or several hours after exposure. Fingested overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product. Ingestion May result in gastrointestinal distress. Skin or eye contact May cause initiation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatility. If this product is mixed with an isocyanate, skin contact may cause sensitization.
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th a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be n any process in which this mixture is being used.	dermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.
th a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be n any process in which this mixture is being used.	Protection of first-aiders
n any process in which this mixture is being used.	
	No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.
ons for safe handling	Notes to physician
dling advice	No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.
e creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the al exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition	
excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye	Section 5. Firefighting measures
on to the advect when a matching better and compared and compared and advect when a start and a start of the	Extinguishing media
or wold dry coating without an appropriate respirator or appropriate ventilation, and gloves.	Suitable extinguishing media
n protection against fire and explosion	Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.
pours are heavior than air and may spread along floors. Vapours may form explosive mixtures with air. Never use empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.	Extinguishing media which shall not be used for safety reasons
1200 Construction of the second s	High volume water jet
ons for safe storage, including any incompatibilities	Special hazards arising from the substance or mixture
nents for storage areas and containers	Hazardous combustion products
bel precaulions. Refer to Tachnical Data Sheet (TDS) for further information about storage temperature. Store in a ntilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. which are opened must be carefully resealed and kept upright to prevent leakage.	Fire will produce dense black smoke containing hazardous combustion products. Exposure to decomposition products may be hazard to health.
n common storage	Hazardous decomposition products
rately from oxidizing agents and strongly aikaline and strongly acidic materials.	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEE	г		SPIES	SAFETY DATA SHEET		SPIES
	IF IN EYES: Rinse cautiously wi present and easy to do. Continue		minutes. Remove contact lenses, if	Section 1. Identificatio company/undertaking	n of the substance/mixture and of the	
	IF ON SKIN (or hair): Remove/ T with water/ shower.	ake off immediately	all contaminated clothing. Rinse skin	Product identifier		
	IF ON SKIN: Wash with plenty of If skin irritation occurs: Get medic	soap and water.		Product name	37480120 A4LT PERMAFAST TURBO 2K CLEARCT	
	Specific treatment (see suppleme Take off contaminated clothing an	ntal first aid instructi		Product code	9314042010332	
	Store in a well-ventilated place. Ke			Relevant identified uses of	the substance or mixture and uses advised aga	inst
	Store locked up. Dispose of contents/container in a	ccordance with loca	I regulations.	Coating for professional use	na na bana kata na kata na kata na kata na kata na kata na kata na kata na kat	
				Details of the supplier of th	e safety data sheet	
Other hazards which	do not result in classification			Company/Undertaking Identifi	noona a suo na - a suo da	
Contains: bis(1,2,2,6,6-p methacrylate. May produ	entamethyl-4-piperidyl) sebacate; methyl 1,2,2,6,6 ice an allergic reaction.	3-pentamethyl-4-pipe	oridyl sebacate; isobutyl	Producer/Supplier Street/Box	Axalta Coating Systems Singapore Holding Pte Ltd. 1 Robinson Road, #15-02 AIA Tower, Singapore 04854	42
				Emergency telephone		
	position/information on ingred	ients		Emergency telephone number of r facturer	nanu- +(65) 65429595	
Chemical nature				For further information, please	e also consult our Internet site	
Mixture of synthetic resir				http://www.spieshecker.com		
Hazardous compone	ents					
CAS-No. 67-64-1	Chemical Name acetone	Concentration 20 - 30%	GHS Hazardous	Section 2. Hazards ide	ntification	
1330-20-7	xylene	10 - 20%		This preparation is hazardous per th	e following GHS criteria	
110 43 0	heptan 2 one	5 10%	.7	GHS-Classification		
108-10-1	4-methylpentan-2-one	5 - 10%	* .7	Flammable liquids	Category 2	
100-41-4	ethylbenzene	3 - 5%	*	Skin corrosion/irritation Serious eye damage/eye irritation	Category 2 Category 2A	
78-93-3	butanone	3 - 5%	v (Target Organ Systemic Toxicant - 5	Single exposure Category 3	
108-88-3	toluene	1-3%	× .	Endpoints which are "not classified"	", ""cannot classified"" and ""not applicable"" are not shown	
41556-26-7		0.3 - 1.0%	v	GHS-Labelling		
41556 26 7	bis(1,2,2,6,6 pentamethyl 4 piperidyl) seba cate	0.3 - 1.0%	v		^ ^	
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl se- bacate	0.1 - 0.3%	\checkmark	Hazard symbols		
97 86 9	isobutyl methacrylate	0.1 - 0.3%	\checkmark	Signal word	Danger	
Non-regulated ingredien	ts 30 - 40%			Hazard statements	Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.	
0	-14			Precautionary statements	Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces N/ Take procautionary measures against static discharge.	o smoking.
Section 4. First Eye contact	aiu measures				Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools. Use only outdoors or in a well ventilated area.	
Remove contact lenses, medical advice.	Irrigate copiously with clean. fresh water for at lea	ist 15 minutes, holdir	ig the eyelids apart. Seek		Wear protective gloves/protective clothing/eye protection/fa Avoid breathing dust/ vapours/ spray. If exposed or if you teal unwell: Call a POISON CENTER o IF INHALED: Remove person to fresh air and keep comfort If eye irritation persists: Get medical advice/ attention.	r doctor/ physician.
Axalta and Axalta Coating Sys	toms are trademarks or registered trademarks of Axaita Coari lies Hecker(3), Permaty(3), Permasolid(3), Permacoin(3), Pri Permatasc(3) and Raderal(3) are registered trademarks of Axai lies. All rights reserved.	ng Sys	8314042010032_v1.1 Revision Date: 2015-09-15	Axalta and Axalta Coating Systems are trade terms, LLC and all athliates, Spies Heoker(3),	marks or registorod tradomarks of Axalta Coaing Sys Permatyd 2), Permasolid (2), Permacion (3), Pionat(2) nd Radonal(2) are registorod tradomarks of Axalta Doat easmed.	8314042010332 v1.1 Revision Date: 2015-09-15 Print Date: 2015-09-15

Green Myanmar Environmental Services Co., Ltd.

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SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET		SAFETY DATA SHEET	
Marine pollutant		Uncleaned packaging	
IMDG: yes [dib	penzayl peroxide]	Recommendation: Properly emptied containers are to be scrap proce	ssed or reconditioned.
Special precautions for user			
please see section 6 - 8		Section 14. Transport informati	
Transport in bulk according to Annex II of MARI	POL 73/78 and the IBC Code	Transport only in accordance with the requirement Packaging and Labeling), ADR for road, RID for ra	s of the Carriage of Dangerous Goods by Road and Rail (Classification il, IMDG for sea and ICAO/IATA for air transport.
Deliveries shall only be made based on appropriate packaging a	and in compliance with traffic laws.	UN number SS 586:Parl 1: 2014; IMDG; ICAO/IATA:	3108
Section 15. Regulatory information		UN proper shipping name	
Safety, health and environmental regulations/leg	dislation specific for the substance or mixture	SS 586;Part 1: 2014; IMDG; ICAO/IATA:	ORGANIC PEROXIDE TYPE E, SOLID
Restricted to professional users.		Transport hazard class(es)	
Chemical Safety Assessment		Hazard class	
No safety checks were carried out on the mixture.		S\$ 586:Part 1: 2014; IMDG; ICAO/IATA:	5.2
Section 16. Other information		Subsidiary hazard class	
Revision Note		SS 586:Part 1: 2014; IMDG; ICAO/IATA:	Not applicable.
	Changes	Labels	
	: 2016-03-11		
The information provided in this Safety Data Sheet is correct to t	the best of our knowledge, information and belief at the date of ance for safe handling, use, processing, storage, transportation,	Special Provisions	
disposal and release and is not to be considered a warranty or o specific material(s) designated herein and may not be valid for s in any process or if the material is altered or processed, unless s	quality specification. The above information relates only to the such material(s) used in combination with any other materials or	SS 586:Part 1: 2014:	no data available
Attention in medical use: Avoid medical use accompanying pern		Hazchem Code	
		SS 586:Part 1: 2014:	1W
		EmS	
		IMDG:	F-J,S-R
		Packaging group SS 586:Part 1: 2014; IMDG; ICAO/IATA:	
		Environmental hazards SS 586:Part 1: 2014; IMDG; ICAO(IATA:	ves to the second secon

Green Myanmar Environmental Services Co., Ltd.

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SC Auto (My	(anmar)	Co	Ltd.
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SAFETY DA	ATA SHEET					SAFETY DATA SHEET		
Section ⁻	11. Toxicological info	rmation				Appearance		
Informatio	on on toxicological effects					Form: solid; Colour: ; Odour: Ode	our is not perceptible.;	
General obs	oservations					Important health, safety and	environmental information	
There is no da	data available on the product. See	sections 2 and 3 for details.				Property	Value	Method
Practical ex	xperience					pH Melting point/freezing point	not applicable Not applicable	
solvents vapo mucous memi and signs incl Solvents may	nay cause nausea. diarrhoea, vomit ours concentration in excess of the nbrane and respiratory system irrita Jude headache, dizziness. fatigue. y cause some of the above effects b nay cause removal of natural fat fro	stated occupational exposur ation and adverse effect on ki muscular weakness, drowsin by absorption through the ski	re limit may result in ad idney, liver and central ness and in extreme ca in. Repeated or prolon	verse health effer nervous system. ses, loss of cons ged contact with	ct such as Symptoms cciousness. the	Boiling point/boiling range Flash point Evapouration rate Flammability (solid, gas) Lower explosion limit Upper explosion limit Vapour pressure Vapour density	Not applicable Not applicable no data available no data available no data available Not applicable Not applicable no data available	DIN 53213/ISO 1523
Acute toxic	city					Relative density Solubility(ies)	1.3 g/cm ³	20 °C - DIN 53217/ISO 2811
Acute oral to	000 - 0					Water solubility Solubility in other solvents Partition coefficient: n-octanol/water	immiscible no data available This product is a mixture. For ingredient details see section 12	
CAS #	Chemical Name	Species	Type Expo- sure	Value	Method	Decomposition temperature	This product is a mixture. For further information see	
107-21-1	ethanediol	rat	LD50	.> 2,000 mg	/kg	Viscosity (23 °C) Explosive properties Oxidizing properties	section 10. >100 s Not explosive oxidizing [See sections 2 and 3 for details. R-	ISO 2431 - 1993 6 mm
	penzoyl peroxide. May produce an a					Other data Self-Accelerating decomposition	phrase(s)	Regulation EC 440/2008 A16
Contains: dibe Section		ation f. The product should not be		or watercourses	s. The data in			Regulation EC 440/2008 A16 Basis Vapour pressure >= 0.01 kF
Contains: dibr Section	cenzoyl peroxide. May produce an a 12. Ecological informa data available on the product itself s consistent with data from chemica	ation f. The product should not be		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components	50°C	-
Contains: dibo Section T There are no this section is Toxicity No information	cenzoyl peroxide. May produce an a 12. Ecological inform a data available on the product itself s consistent with data from chemica	ation f. The product should not be		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components	50°C 10.7 %	-
Contains: dibo Section T There are no this section is Toxicity No information	12. Ecological informa data available on the product itself s consistent with data from chemica an available. ce and degradability	ation f. The product should not be		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components (including water)	50°C 10.7 %	-
Contains: dibe Section of There are no this section is Toxicity No information Persistence No information	12. Ecological informa data available on the product itself s consistent with data from chemica an available. ce and degradability	ation f. The product should not be		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Contert of volatile components (including water) Section 10. Stability a Reactivity	50°C 10.7 %	Basis Vapour pressure >= 0.01 kf
Contains: dibe Section of There are no this section is Toxicity No information Persistence No information	12. Ecological informa data available on the product itself s consistent with data from chemica an available. ce and degradability an available. nulative potential	ation f. The product should not be		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Contert of volatile components (including water) Section 10. Stability a Reactivity	50°C 10.7 %	Basis Vapour pressure >= 0.01 kf
Contains: dibe Section T There are no this section is Toxicity No information Persistence No information Bioaccum	the second	ation f. The product should not be		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components (including water) Section 10. Stability a Reactivity Keep away from oxidising agents, s	50°C 10.7 %	Basis Vapour pressure >= 0.01 kf
Contains: dibe Section T There are no this section is Toxicity No information Bioaccumm No information	tenzoyl peroxide. May produce an a 12. Ecological informa data available on the product itself s consistent with data from chemica an available. ce and degradability an available. nulative potential an available. n asoil	ation f. The product should not be		or watercourses	. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components (including water) Section 10. Stability a Reactivity Keep away from oxidising agents, s Chemical stability	50 °C 10.7 % and reactivity strongly alkaline and strongly acid materials in order to a	Basis Vapour pressure >= 0.01 kf
Contains: dibe Section I There are no- this section is Toxicity No information Persistenc No information Bioaccumm Na information Mobility in	tenzoyl peroxide. May produce an a 12. Ecological informa data available on the product itself s consistent with data from chemica an available. ce and degradability an available. nulative potential an available. n asoil	ation f. The product should not be		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components (including water) Section 10. Stability a Reactivity Keep away from exidising agents, s Chemical stability The product is chemically stable.	50 °C 10.7 % and reactivity strongly alkaline and strongly acid materials in order to a eactions	Basis Vapour pressure >= 0.01 kf
Contains: dib Section 1 There are no. this section is Toxicity No information Persistence No information Bioaccum No information Mobility in No information	tenzoyl peroxide. May produce an a 12. Ecological informa data available on the product itself s consistent with data from chemica an available. ce and degradability an available. nulative potential an available. n asoil	ation f. The product should not be al safety reports available at		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components (including water) Section 10. Stability a Reactivity Keep away from exidising agents, s Chemical stability The product is chemically stable. Possibility of hazardous re	50 °C 10.7 % and reactivity strongly alkaline and strongly acid materials in order to a eactions	Basis Vapour pressure >= 0.01 kf
Contains: dibe Section of There are no- this section is Toxicity Na Information Bioaccum Na Information Bioaccum Na Information Mobility in Na Information	tenzovi peroxide. May produce an a 12. Ecological informa data available on the product itself s consistent with data from chemica an available. ce and degradability an available. nulative potential an available. n soil an available. n soil	ation f. The product should not be al safety reports available at		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Contert of volatile components (including water) Section 10. Stability a Reactivity Keep away from exidising agents, s Chemical stability The product is chemically stable. Possibility of hazardous re No dangerous reaction known und Conditions to avoid	50 °C 10.7 % and reactivity strongly alkaline and strongly acid materials in order to a eactions	Basis Vapour pressure >= 0.01 kf
Contains: dib Section of There are no. this section is Toxicity No information Bioaccum No information Bioaccum No information Mobility in No information Section of Waste treat	An available. An available on the produce an available. An available.	ation f. The product should not be al safety reports available at safety reports available at rations		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Contert of volatile components (including water) Section 10. Stability a Reactivity Keep away from exidising agents, s Chemical stability The product is chemically stable. Possibility of hazardous re No dangerous reaction known und Conditions to avoid	50 °C 10.7 % and reactivity strongly alkaline and strongly acid materials in order to a eactions er conditions of normal use. je and handling conditions (see section 7).	Basis Vapour pressure >= 0.01 kf
Contains: dib Section of There are no. this section is Toxicity No information Bioaccum No information Bioaccum No information Mobility in No information Section of Waste treat	the second	ation f. The product should not be al safety reports available at safety reports available at rations		or watercourses	s. The data in	Self-Accelerating decomposition temperature (SADT) Content of volatile components (including water) Section 10. Stability a Reactivity Keep away from exidising agents, s Chemical stability The product is chemically stable. Possibility of hazardous re No dangerous reaction known unde Conditions to avoid Stable under recommended storag	50 °C 10.7 % and reactivity strongly alkaline and strongly acid materials in order to a eactions er conditions of normal use. je and handling conditions (see section 7).	Basis Vapour pressure >= 0.01 kf
Contains: dib Section 1 There are no. This section is Toxicity No information Persistence No information Bioaccum No information Bioaccum No information Mobility in No information Section 1 Waste tree Dispose of in Product Recommenda	12. Ecological information 12. Ecological information 12. Ecological information 12. Ecological information 13. Disposal consider 13. Disposal consider atment methods accordance with local regulations. ation:	ation f. The product should not be al safety reports available at safety reports rations	the date of revision.			Self-Accelerating decomposition temperature (SADT) Content of volatile components (including water) Section 10. Stability a Reactivity Keep away from exidising agents, s Chemical stability The product is chemically stable. Possibility of hazardous re No dangerous reaction known und Conditions to avoid Stable under recommended storag Incompatible materials to	50 °C 10.7 % and reactivity strongly alkaline and strongly acid materials in order to a eactions er conditions of normal use. ae and handling conditions (see section 7). avoid	Basis Vapour pressure >= 0.01

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SPIES HECKER	SPIES
SAFETY DATA SMEET	SAFETY DATA SHEET
CAS-No. Chemical Name Time Type Value Note Source	Methods and materials for containment and cleaning up
Stel 50 ppm	Contain and collect spillage with a electrically protected vacuum cleaner or by wet brushing and place in container for dispos according to local regulations. Do not use a dry brush as dust douds or static can be created! Use a suitable vacuum clean
	Reference to other sections
	Comply with safety directives (see chapters 7 and 8).
Exposure controls	
Additional technical information on the plant	Section 7. Handling and storage
Do not breathe dust. Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain exposure to dusts below the OEL, suitable respiratory protection must be worn.	Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should no employed in any process in which this mixture is being used. It is recommended that advice is taken from a competent occupational health practitioner on the assessment of employees with skin or respiratory complaints before the individual is exposed to the uncured product.
Protective equipment	Precautions for safe handling
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.	Safe handling advice
Respiratory protection If dust formation exceeds the air concentration limits, then a respiratory protection device approved for this purpose must be worn.	Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational exposure limits. Preparation may charge electrostatically: always use grounded leads when transferring from one container another. Operators should wear antistatic footwear and clothing. Keep away from open flames, hot surfaces and sources of
Hand protection	ignition. Smoking, eating and drinking should be prohibited in the application area. Electrical equipment and lighting should protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. For
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.	personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flam cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.
Glove material Glove thickness Break through time	Advice on protection against fire and explosion
Nitrile rubber 0.33 mm > 240 min	Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.
The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product	Conditions for safe storage, including any incompatibilities
compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatrik® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the	Requirements for storage areas and containers
product is not avoidable (c.g. maintenance work) a buily or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as those can casily damage the gloves and make them indifficutive. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be	Observe label precautions. Refer to Technical Data Sheet (TDS) for further information about storage temperature. Store in dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Advice on common storage
replaced immediately.	Store away from combustibles. Do not store together with explosives, compressed, liquefied and pressurised gases, aeroso
Eye protection	flammable liquids, oxidizing products, non combustible toxic products and infectious products.
Eye protection (to EN 166/170) designed to protect against exposure to dusts should be worn when there is a likelihood of exposure.	
Skin and body protection	Section 8. Exposure controls/personal protection
Wear suitable protective clothing. Care should be taken in the selection of protective clothing. Avoid contact with the powder on throat and wrists due to possible inflammation and irritation of the skin.	Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should no employed in any process in which this mixture is being used.
Hygiene measures	Control parameters
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!	National occupational exposure limits
Environmental exposure controls	Singapore. OELs (Workplace Sately and Health (General Provisions) Regulations 2006 (S 134/2006), First Schedule: Permissible Exposure Limits of Toxic Substances, Feb. 28, 2006)
Do not let product enter drains. For ecological information refer to section 12.	י פרוווששואים באלוטסורא בוווונג טו וטאוט טווטסומווטסט, רמט, בטיטטן
	CAS-No. Chemical Name Time Type Value Note
Section 9. Physical and chemical properties	Source 94-36-0 dibenzoyl peroxide Singapore TWA 5 mg/m3
Information on basic physical and chemical properties	107-21-1 ethanediol ACGIH CEIL 100 mg/m3 Aerosol
	Singapore STEL 127 mg/m3
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SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET	SAFETY DATA SHEET	IECKE
to the respiratory tract.	IF ON SKIN: Wash with plenty of soap and water.	
Ingestion	IF IN EYES: Rinse cautiously with water for several minutes. Remove co present and easy to do. Continue rinsing.	ntact len
May result in gastrointestinal distress.	Specific treatment (see supplemental first aid instructions on this label). If skin irritation or rash occurs: Get medical advice/ attention.	
Skin or eye contact	If eye irritation persists: Get medical advice/ attention. Wash contaminated clothing before reuse.	
Dust generated from this product may cause irritation of the eyes. Repeated or prolonged contact may cause skin irritation with discomort and dermatitis.	Collect spillage. Dispose of contents/container in accordance with local regulations.	
Protection of first-alders		
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.	Other hazards which do not result in classification	
Notes to physician	None known.	
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.		
Section 5. Firefighting measures	Section 3. Composition/information on ingredients	
	Chemical nature	
Extinguishing media	Mixture of synthetic resins and solvents	
Sultable extinguishing media	Hazardous components	
Water sprayDry chemical	CAS-No. Chemical Name Concentration GHS Hazardous	
Extinguishing media which shall not be used for safety reasons	94-36-0 dibenzoyl peroxide 40 - 50% 🗸	
High volume water jet	107-21-1 ethanediol 5 - 10% 🗸	
Special hazards arising from the substance or mixture	27138-31.4 Oxydipropyl dibenzoate 1 - 3% √	
Hazardous combustion products		
Fire will produce dense black smoke containing hazardous combustion products. Exposure to decomposition products may be a hazard to health.	Non-regulated ingredients 30 - 40%	
Hazardous decomposition products		
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, benzoic acid, benzone, diphenyl, phenylbenzoate; for cyclohexanone peroxides, hexane carbonic acid, lauric carbon acid, cyclohexane.	Section 4. First aid measures Eve contact	
Advice for firefighters	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Se	aak
Fire and Explosion Hazards	medical advice.	AUX.
The product is not flammable.	Skin contact	
Special Protective Equipment and Fire Fighting Procedures	Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and uso recognized skin cleanser. If skin irritation persists, call a physician.	water (
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.	Inhalation	
	Avoid breathing dust. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore threat and coug tresh air. It breathing is irregular or stopped, administer artificial respiration. It symptoms persist, call a physician.	h. Movo
Section 6. Accidental release measures	Ingestion	
Personal precautions, protective equipment and emergency procedures	If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label.	
Keep away from sources of ignition. Air out the room. Do not breathe dust.	Most Important Symptoms/effects, acute and delayed	
Environmental precautions	Inhalation	
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems. Please avoid any emission of volatile organic compounds as possible.	May cause nose and throat irritation. May cause nervous system depression characterized by the following progressis headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and p overexposure to solvents with permanent brain and nervous system damage. Dust generated from this product may	rolonged
Axaita and Axaita Coating Systems are trademarks or registered trademarks of Axaita Coating Sys- tams, LLC and al alfiliates, Spice Hockerg, Permanyco, Permacolucy, Permacono, Prinnacy, Pereson Date: 2016-03-11 Permatolec(), Permatolic), Permatel(), Permacolucy, Permacono, Printacy, Prinnacy, Prinnacy, Pereson Date: 2016-03-11 ing Systems, LLC and all affiliates, dirgistre serviced, and	Avaita and Avaita Coaring Systems are Indemarks or registered Indemarks of Avaita Coarting Sys- tams, LLC and all affiates. Spice Neccenty: Permanyor(5). Permacol/d(5). Permacol/d(5). Primator(1): Prioritat(5) Permatelet(5), Permatel(5) and Patients (5), Permacol/d(5), Permacol/d(5). Permacol/d(5), Permacol/d(5), Permatel(5), Pe	v5.0 016-03-11 -03-11

Green Myanmar Environmental Services Co., Ltd.

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SC Auto (Myanmar) Co., Ltd.

	SPIES HECKER	SAFETY DATA SHEET
SAFETY DATA SHEET		Product name: PERMAHYD STEINSCHLAG ELASTIC SCHWARZ/BLACK Product odd: 402533122260 Print Date: 2016-08-01 v3.3 Revision Date: 2016-08-01 SG/en Page 10- 10
Section 1. Identification company/undertaking	on of the substance/mixture and of the	Chemical safety assessment
Product identifier		No safety checks were carried out on the mixture.
Product name	RADERAL HARDENER 0909 RED	Section 16. Other information
Product code	4025331234890	Revision Note
		Version Changes
	the substance or mixture and uses advised against	3.3 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Hardener for professional use		Rovision Date: 2016 08 01 B11755575
Details of the supplier of the	 Torona de Montrata de La companya de la compa Na companya de la company 	
Company/Undertaking Identif Producer/Supplier Street/Box Nat. Code/Postal code/City Telephone Importer Street/Box NatCode/Postal code/City	ication Avalta Coating Systems Germany GmbH & Co. KG Horbeller Str. 15 DE 50958 Köln -449(0) 2234 6019-01 Avalta Coating Systems Singapore Holding Pte Ltd. 1 Robinson Road, #15-02 AIA Tower, Singapore 048542	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportati disposal and release and is not to be considered a warrantry or guilty specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials in any process or if the material is altered or processed, unless specified in the text. Attention in medical use: Avoid medical use accompanying permanent implant in human body.
Information on SDS		
Responsible Department Telephone Telefax E-mail address	Regulatory Atfairs +49 (0)202 529-2385 +49 (0)202 529-2804 sds-service@axaltacs.com	
Emergency telephone		
Emergency telephone number of facturer	manu- +(65) 65429595	
For further information, pleas	e also consult our Internet site	
Section 2. Hazards ide	entification	
The subtance is hazardous per the	following GHS criteria.	
GHS-Classification		
Serious eye damage/eye irritation Skin sonsitisation Acute aquatic toxicity	Category 2A Category 1 Category 1	
Endpoints which are "not classified"	, "cannot classified" and "not applicable" are not shown.	
GHS-Labelling	a na na manana ana ana ana ana ana ana a	
-		
Hazard symbols	V V	
Signal word	Warning	
Hazard statements	May oause an allergic skin reaction. Causes earlous eye inflation. Very toxic to aquatic life.	
Precautionary statements	Avoid breathing dust/vapours/ spray. Contarninated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.	
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SAFETY DATA SHEET		SPIES HECKER	SAFETY DATA SHEET
Product name: PERMAHYD STEINSCHLAG ELAS Product code: 4025331222620	TIC SCHWARZ/BLACK		Product name: PERMAHYD STEINSCHLAG ELASTIC SCHWARZ/BLACK Product code: 4025331222620
	on Date: 2016-08-01 SG/en Page 9- 10		Print Date: 2016-08-01 v3.3 Revision Date: 2016-08-01 SG/en Page 8- 10
Hazard class			Acute and extended toxicity of fishes
SS 586:Part 1: 2014; IMDG; ICAO/IATA:	9		CAS # Chemical name Species Type Exposure Value Method
Subsidiary hazard class			time 7779-90-0 trizinc bis(orthophosphate) Oncorhynchus LC50 96 h 1 mg/l myklas (rainbow
SS 586:Part 1: 2014; IMDG; ICAO/IATA:	Not applicable.		trout)
Labels			Toxicity with aquatic plants
Labels	.afh.		CAS # Chemical name Species Type Exposure Value Method
			time 7779-90-0 trizinc bis(orthophosphate) Algae EC50 72 h 0.3 mg/l
Special Provisions			Persistence and degradability
SS 586:Part 1: 2014:	No data available		No information available.
			Bioaccumulative potential
Hazchem Code			No information available.
SS 586:Part 1: 2014:	3Z		Mobility in soil
EmS			No information available.
IMDG:	F-A.S-F		
Packaging group			Section 13. Disposal considerations
SS 586:Part 1: 2014; IMDG; ICAO/IATA:	ш		Waste treatment methods
			Dispose of in accordance with local regulations.
Environmental hazards			Product
SS 586:Part 1: 2014; IMDG; ICAO/IATA:	ves the second s		Recommendation: A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by indiversition.
	•		Uncleaned packaging
Marine pollutant			Recommendation: Property emptied containers are to be scrap processed or reconditioned.
IMDG:	yes [trizinc bis(orthophosphate)]		
Special precautions for user			Section 14. Transport information
please see section 6 - 8			Transport only in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification. Packaging and Labeling), ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.
Transport in bulk according to Annex I	of MARPOL 73/78 and the IBC Code		UN number
Deliveries shall only be made based on appropriate	packaging and in compliance with traffic laws.		SS 566:Part 1: 2014; IMDG; ICAO/IATA: 3062
			UN proper shipping name
Section 15. Regulatory informat	on		SS 586:Part 1: 2014; IMDG; ICAO/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. SS 586:Part 1: 2014; IMDG; ICAO/IATA: [trizinc bis(orthophosphate)]
	ations/legislation specific for the substance or mix	cture	
Restricted to professional users.			Transport hazard class(es)
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SAFET	Y DATA SHEET					SPIES	SAFETY D	DATA SHEE	T	9
Product name	ne: PERMAHYD STEINSCHLAG de: 4025331222620	ELASTIC SCHWARZ/BLAC	<				Product name: F Product code: 4	PERMAHYD STE 025331222620	EINSCHLAG ELASTIC SCHWARZ/BLACK	
Print Date:	2016-08-01 v3.3	Revision Date: 2016-08-01		SG	/en Page 7- 10)	Print Date: 2016	5-08-01	v3.3 Revision Date: 2016-08-01	SG/en Page 6- 10
Possibili	ty of hazardous reactions	3					Environmenta	al exposure co	ontrols	
No dangero	us reaction known under condition	ns of normal use.					Do not let produ			
Conditio	ns to avoid						For ecological in	nformation refer to	o section 12.	
Stable unde	er recommended storage and hand	dling conditions (see section	7).							
Incompa	tible materials to avoid						Section 9.	Physical a	and chemical properties	
not required	l under normal use						Information	on basic phy	vsical and chemical properties	
Hazardo	us decomposition produc	ts					Appearance			
None know							Form: liquid:	Colour: bla	ck; Odour: Odour is not perceptible.;	
							Important hea	alth, safety an	d environmental information	
Section	11. Toxicological inf	ormation					Property pH		Value 7.5 - 8.5	Method
Informat	ion on toxicological effec	ts					Melting point/fre Boiling point/bo	eezing point	Not applicable.	
	bservations						Flash point	-	Not applicable.	ISO 3679
							Evaporation rat Flammability (s		Slower than Ether not relevant as product is liquid	
	data available on the product. Se	e sections 2 and 3 for detail	S.				Lower explosion	n limit	No data available No data available	
Practical	experience						Vapour pressur	re	1.6 hPa	
Swallowing	may cause nausea, diarrhoea and	d vomiting.					Vapour density Relative density		No data available 1.36 g/cm ³	20 °C - DIN 53217/ISO 2811
Acute tox	icity						Solubility(ies)			
							Water solubilit Solubility in ot	ther solvents	appreciable No data available	
Acute derr	nal toxicity						Partition coeffic n-octanol/water		This product is a mixture. For ingredient details see section 12	2
CAS #	Chemical name	Species	Туре	Expo-	Value	Method	Auto ignition ter		224°C	DIN 51794 based on organic sol- content
-	2017 N. M. M.	Teachtrach.		sure time	en strepat		Decomposition	temperature	This product is a mixture. For further information see section 10.	
111-76-2	2-butoxyethanol	Rabbit	LD50		1,500 mg/l	(g	Viscosity (23 °C		100 s	ISO 2431 - 1993 6 mm
Acute oral	tevialty						Explosive prope Oxidizing prope	erties ortios	Not explosive not oxidizing	
CAS #	Chemical name	Species	Туре	Expo- sure time	Value	Method	Other data			
111-76-2	2-butoxyethanol	Rat	LD50		1,746 mg/l	(g	Solvent separat	tion tost	< 3%	ADR/RID
							Content of vola	tile components	< 3% 34.3 %	Basis Vapour pressure >= 0.01 kPa
Subacute	-						(including water organic solvent	content	5.0 %	Basis Vapour pressure >= 0.01 kPa
2-butoxyeth	anol and its acetate are readily at	sorbed through the skin and	will cause harm	ful effects or	n the blood.		European VOC		5.0 %	Basis Vapour pressure >= 0.1 hPa
Sectior	12. Ecological inform	mation								
There are r	o data available on the product its	elf. The product should not b	e allowed to ent	er drains or	watercourses.		Section 10	0. Stability	and reactivity	
The data in	this section is consistent with data	a from chemical safety repor	ts available at the	e date of rev	ision.		Reactivity			
Toxicity							Keep away from	i oxidizing agents	s, strongly alkaline and strongly acid materials in order	to avoid exothermic reactions.
Aquatic to	oxicity						Chemical st	ability		
Acute toxic	city aquatic invertebrates						The product is c	chemically stable.		
CA	S # Chemical name	Species	Type Exp		Value Method	i				
777	9-90-0 trizinc bis(orthophosph	ate) Daphnia	EC50 48	- h 1	1 mg/l		Auntry and Acate 1	Coation Seriorer	a fradomarka or ranistarad transmiski of Availa Dostina Busine	s IIC and
	raita Coating Systems are frademarks o Spice Hocker(), Pormahyd(), Pormasol and Baderal() trademarks of Axalta Coating Systems, LL			aloid @),		Page 7			e frademarks or registered trademarks of Axaita Coating System d(), Pormasolis(), Pormacron(), Priomat() , Pormafloot(), F ing Systems, LLC and all affiliates, All rights reserved.	rs, LLC and Pormaloid@), Pa;

Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

		NSCHLA	G ELASTIC SCHW	ARZ/BLACK			
Product code: Print Date: 20	4025331222620 16-08-01	v3.3	Revision Date: 20	16-08-01		SG/en Pag	je 5- 10
						-	
CAS-No. 1332-58-7	Chemical name Kaolin			Source Time ACGIH 8 hr	Type TWA	Value 2 mg/m3	Note Respirable
				Singapore	TWA	2 mg/m3	Dust
14808-60-7	Quartz (SiO2)			ACGIH 8 hr	TWA	- 25 ug/m3	Respirable
				Singapore	TWA	0.1 mg/m3	Dust
111-76-2	2 butoxyothanol			ACGIH 8 hr Singapore Singapore	TWA TWA TWA	20 ppm 25 ppm 121 mg/m3	
14807-96-6	Talc (Mg3H2(SiO	(3)4)		ACGIH 8 hr	TWA	2 mg/m3	Respirable
	inio (ingoi in (oro	~/.,		Singapore	TWA	2 mg/m3	Dust
Exposure o	controls						
Additional te	echnical informa	tion on	the plant				
local exhaust v	entilation. If these a	are not su	be achieved by a goo ufficient to maintain o n. Mask with gas fil	concentrations of p	articulates ar		
Protective e	quipment						
Personal prote	ctive equipment sho	ould be w	ore to provoel each		a statistica -		
			orn to prevent conta	act with eyes, skin c	a ciotning.		
Respiratory			orn to prevent conta	act with eyes, skin o	a ciotning.		
	protection				w ciotning.		
In case of insu	protection fficient ventilation, v		able respiratory equi		w ciotning.		
In case of insu Hand protect The breakthron	protection fficient ventilation, v tion ugh time of gloves is	vear suita		pment.		ecommended c	on basis of the
In case of insu Hand protect The breakthrois substances in	protection ifficient ventilation, v tion ugh time of gloves is the preparation.	vear suita	able respiratory equi	pment.	rial given is r	ecommended o	
In case of insu Hand protect The breakthrois substances in	protection fficient ventilation, v tion ugh time of gloves is the preparation. ne	vear suita	able respiratory equi m for the product its Gloo Vito	ipment. elf. The glove mate	rial given is r	ickness Break I 1m 48	
In case of insu Hand protect The breakthror substances in Chemical nan 2-butoxyethar The protective compatibility, a group 3 (e.g. to product is not occur to mater use with this p these can easis on use, storag	protection fficient ventilation, v tion ugh time of gloves is the preparation. ne glove should be ch- nd anti-static prope permatric? glove) is voldable (e.g. mair talas specified in sec voldat is (e.g. mair talas gate the glow ty damage the glow ty damage the glow	ecked in rties). Wi to be us ntenance tion 3 of neation b es and m	able respiratory equi m for the product its Gloo Vito	pment. ell. The glove mate ve material n (R) [®] le rubber vork specific suitab e is for spray applic tion, the glove has rocarbon rubber gl uid be sought from Care should be tak	Field given is r Glove thi 0.7 m 0.33 m lilly (e.g. met ation a rithrif to be change ove should b the glove si n when wori and intermation	ickness Break I 1117 48 chanical stabiliti chanical stabiliti d. If immersing the used. When a upplier as to app king with sharp on provided by I	through time 0 MIN 0 MIN y, product remical resistance the hands into the skin exposure may propriate type to edged articles as the glove supplier
In case of insu Hand protec The breakthron substances in Chemical nan 2-butoxyethar The protective compatibility, a group 3 (e.g. C product is not occur to mater use with this p fundamental these can easi on use, storag replaced imme	protection ffficient ventilation, v tion ugh time of gloves is the preparation. ne glove should be ch- nd anti-static prope permantil ¹ S glove) is voldable (e.g., main souldable (e.g., maint glove should the perm ly damage the glove child the permanal of the perm ly damage the glove. the maintenance and didiately.	ecked in rties). Wi to be us ntenance tion 3 of neation b es and m	able respiratory equi m for the product list Glor Vitio Nitri each case for their v hen the intended us ed. After contamina work) a butyl or fluo this SDS, advice sh reakthrough times. L ake therm ineffective	pment. ell. The glove mate ve material n (R) [®] le rubber vork specific suitab e is for spray applic tion, the glove has rocarbon rubber gl uid be sought from Care should be tak	Field given is r Glove thi 0.7 m 0.33 m lilly (e.g. met ation a rithrif to be change ove should b the glove si n when wori and intermation	ickness Break I 1117 48 chanical stabiliti chanical stabiliti d. If immersing the used. When a upplier as to app king with sharp on provided by I	through time 0 MIN 0 MIN y, product remical resistance the hands into the skin exposure may propriate type to edged articles as the glove supplier
In case of insu Hand protec The breakthron substances in Chemical nan 2-butoxyethar The protective compatibility, a group 3 (e.g. L product is not cocur to matter use with this p these can easi on use, storag replaced imme Eye protect!	protection fficient ventilation, v tion ugh time of gloves is the preparation. he glove should be ch nd anti-static prope ermaintil® glove) is voltable (e.g. main talas specified in sec e, maintenance and citately. on	ecked in rties). Wi to be us nenance tion 3 of neation b es and m I replacer	able respiratory equi m for the product list Glor Vitio Nitri each case for their v hen the intended us ed. After contamina work) a butyl or fluo this SDS, advice sh reakthrough times. L ake therm ineffective	pment. elf. The glove mate ve material n (R) [®] lie rubber lie rubber vork specific suitab e is for spray applic toon, the glove has sought from coachon rubber gl ould be sought from Zare should be tak . The instructions a d. Damaged glove	Field given is r Glove thi 0.7 m 0.33 m lilly (e.g. met ation a rithrif to be change ove should b the glove si n when wori and intermation	ickness Break I 1117 48 chanical stabiliti chanical stabiliti d. If immersing the used. When a upplier as to app king with sharp on provided by I	through time 0 MIN 0 MIN y, product remical resistance the hands into the skin exposure may propriate type to edged articles as the glove supplier
In case of insu Hand protect Bubstances in Chemical nan 2-butoxyethar The protective compatibility, a group 3 (e.g., to product is not occur to mate- nor use, storag replaced imme Eye protecti Use safety eye	protection fficient ventilation, v tion ugh time of gloves is the preparation. he glove should be ch nd anti-static prope ermaintil® glove) is voltable (e.g. main talas specified in sec e, maintenance and citately. on	ecked in rties). Wi to be us nenance tion 3 of neation b es and m I replacer	able respiratory equi m for the product its: Gloo Vito N	pment. elf. The glove mate ve material n (R) [®] lie rubber lie rubber vork specific suitab e is for spray applic toon, the glove has sought from coachon rubber gl ould be sought from Zare should be tak . The instructions a d. Damaged glove	Field given is r Glove thi 0.7 m 0.33 m lilly (e.g. met ation a rithrif to be change ove should b the glove si n when wori and intermation	ickness Break I 1117 48 chanical stabiliti chanical stabiliti d. If immersing the used. When a upplier as to app king with sharp on provided by I	through time 0 MIN 0 MIN y, product remical resistance the hands into the skin exposure may propriate type to edged articles as the glove supplier
In case of insu Hand protect Hand protect Substances in Chemical nan 2-butoxyethar The protective compatibility, a group 3 (eg. L group 3 (eg. L) (eg	protection fficient ventilation, v tition ugh time of gloves is the preparation. ne glove should be ch- nd anti-static prope permatril ² glove) is voldable (e.g. main tailas specified in sec ermainting: glove) is voldable (e.g. main tange the glowe e, maintenance and didiately. on wear designed to p dy protection protective clothing.	ecked in trites). Wi to be us tenance tenance se and m replacer rotect ag.	able respiratory equi m for the product its: Gloo Vito N	pment. elf. The glove mate ve material n (R) ^(B) lie rubber vork specific suitab e is for spray applic vork specific suitab e is of spray applic to the glove has rocarbon rubber gl udd be sought for Care should be the udd be sought for Care should be the udd be sought for Care should be the the sought for the instructions is ad. Damaged glove ucts.	Clove thi Glove thi 0.7 m 0.33 m illity (e.g. mech ation a nitricito to be change ove should b to be change ove should b to be change ove should b to be change ove should b the glove should b	ickness Break I Im 48 Im 48 charical stabilit charical stabilit ch	through time O MIN O MIN We have a set of the set of th
In case of insu Hand protect The breakthroro substances in Chemical nan 2-butoxyethar The protective compatibility, a group 3 (e.g. I. group 3) (e.g. I. group 3	protection fficient ventilation, v tition ugh time of gloves is the preparation. ne glove should be chn nd anti-static prope permatrift; glove) is permatrift; glove) is perm	ecked in trites). Wi to be us tenance seand m replacer rotect ag-	able respiratory equi m for the product its Gloo Vito Nito Nito Nito Nito Nito Nito Nito N	pment. elf. The glove mate ve material n (R) ^(B) lie rubber vork specific suitab e is for spray applic vork specific suitab e is of spray applic to the glove has rocarbon rubber gl udd be sought for Care should be the udd be sought for Care should be the udd be sought for Care should be the the sought for the instructions is ad. Damaged glove ucts.	Clove thi Glove thi 0.7 m 0.33 m illity (e.g. mech ation a nitricito to be change ove should b to be change ove should b to be change ove should b to be change ove should b to be change ove should b	ickness Break I Im 48 Im 48 charical stabilit charical stabilit ch	through time O MIN O MIN We have a set of the set of th
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SAFETY DATA SHEET
Product name: PERMAHYD STEINSCHLAG ELASTIC SCHWARZ/BLACK
Product code: 4026531222620
Print Date: 2016-08-01 V3.3 Revision Date: 2016-08-01 SG/en Page 4- 10

Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems. Please avoid any emission of volatile organic compounds as possible.

Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent: avoid use of solvents.

Reference to other sections

Comply with safety directives (see chapters 7 and 8).

Section 7. Handling and storage

Precautions for safe handling

Safe handling advice

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product stroud only be used in areas from which at naked lights and other sources of ignition have been excluded.

Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

For personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container; container is not a pressure vessel. Always keep in containers of same material as the original one.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Observe label precautions. Refer to Technical Data Sheet (TDS) for further information about storage temperature. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containors which are opened must be carefully rescaled and key torghit to provent loakago.

Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials. Do not store together with explosives, compressed, laudried and pressurised gases, aerosols. flammable liquids, oxidizing products, non combustible toxic products and intectious products.

Section 8. Exposure controls/personal protection

Control parameters

National occupational exposure limits

Singapore. OELs (Workplace Safety and Health (General Provisions) Regulations 2006 (S 134/2006), First Schedule: Permissible Exposure Limits of Toxic Substances, Feb. 28, 2006)



Page 4

Azata and Araita Costing Systems: ser Isafernakis or registered tosemakis of Asata Costing Systems; LLC and al diffailos: Spice Isodor:(), Formaly()C, Pormacold(), Pormat(), Pormat(), Pormat(), Pormat(), Permatatat), and Fasteral(); en registred Traderatik of Asata Costing System; LLC and all stillates. All rights reserved.

Green Myanmar Environmental Services Co., Ltd.

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SC Auto (Myanmar) Co., Ltd.

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SAFETY DATA SHEET SPIES	SAFETY DATA SHEET
Product name: PERMAHYD STEINSCHLAG ELASTIC SCHWARZ/BLACK Product code: 4025331228620 Print Date: 2016-08-01 v3.3 Revision Date: 2016-08-01 SG/en Page 3- 10	Product name: PERIMAHYD STEINSCHLAG ELASTIC SCHWARZ/BLACK Product code: 4025331222620 Print Date: 2016-08-01 v3.3 Revision Date: 2016-08-01 SG/en Page 2- 10
Ingestion	
May result in gastrointostinal distress.	Dispose of contents/container in accordance with local regulations.
Skin or eye contact	Other hazards which do not result in classification
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dormatilis.	None known.
Protection of first-alders	Section 3. Composition/information on ingredients
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.	Chemical nature
Notes to physician	Mixture of synthetic resins and solvents as well as water
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.	
	Hazardous components
Section 5. Firefighting measures	CAS No. Chemical name Concentration GHS Hazardous
Extinguishing media	7779-90-0 trizinc bis(orthophosphate) 10 - 20% √
Suitable extinguishing media	1332-58-7 Kaolin 5 - 10%
Water spray, Dry chemical, Foam	14808-60-7 Quartz (SiO2) 5-10% V
Extinguishing media which shall not be used for safety reasons	111-76-2 2-butoxyethanol 3 - 5% √
High volume water jet	14807 96 6 Talc (Mg3H2(SiO3)4) 3 5%
Special hazards arising from the substance or mixture	Non-regulated ingredients 60 - 70%
Hazardous combustion products	
Fire will produce dense black smoke containing hazardous combustion products. Exposure to decomposition products may be a hazard to health.	Section 4. First aid measures
Hazardous decomposition products	Eye contact Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the evelids apart. Seek
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoko, oxidos of nitrogon.	medical advice.
Advice for firefighters	Skin contact Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and wa
Fire and Explosion Hazards	use recognized skin cleanser. If skin irritation persists, call a physician.
The product is not flammable.	Inhalation
Special Protective Equipment and Fire Fighting Procedures	Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms
Wear as appropriate: Full protective flameproof clothing. Wear self-contained breathing apparatus for firefighting if necessary. In	call a physician.
the event of fire, cool tanks with water spray. Do not allow run-off from fire tighting to enter drains or water courses.	Ingestion
Section 6. Accidental release measures	If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vo Keep at rest.
Personal precautions, protective equipment and emergency procedures	Most Important Symptoms/effects, acute and delayed
Keep in a well-ventilated place. Keep away from sources of ignition. Do not inhale vapours.	Inhalation
	May cause nose and throat irritation.
Avaita and Avaita Coating Systems are inademarks or registered tracemarks of Avaita Coating Systems, LLC and al afflatos. Spice incoker(0), Formalyd(2), Formaciol(3), Formacion(6), Friunal(6), Formaliot(6), Formaloid(6), Formalas(2) and Saderal(6) are registered represents for Avaita Coating Systems, LLC and all affiliates. All rights reserved.	Araita and Araita Coating Systems are trademarks or registered trademarks of Araita Coating Systems, LLC and all affiliatos. Spice Hocker (2), Pormahryd (2), Pormacoloid (2), Pormacron (2), Pormat(2), Pormaticet (2), Pormaloid (2), Permatext (2) and Raderall (5), and a Coating Systems, LLC and all affiliates. All rights reserved,

SC Auto (Myanmar) Co., Ltd.

Product dock 4026312028600 Product dock 4026312028600 <td< th=""><th>Product name: DEDMAHYD STEINSCH</th><th>ILAG ELASTIC SCHWADZ/BLACK</th><th>SPIES HECKER</th><th>SAFETY DATA SHEET</th><th></th><th>HECKER</th></td<>	Product name: DEDMAHYD STEINSCH	ILAG ELASTIC SCHWADZ/BLACK	SPIES HECKER	SAFETY DATA SHEET		HECKER
Section 1. Identification of the substance/mixture and of the company/undertaking product and product	Product code: 4025331222620				nded by 453/2010/EC	
Sector 1. Identification - It has substance/mixture and of the control of the contrel of the control of the control of the control of the c	Print Date: 2016-08-01 v3.	3 Revision Date: 2016-08-01	SG/en Page 1- 10	Glossarv		
Product dentifier BR0 Environmentifier Reading Product damper 1 and address catagary for ACA wass (1) and address (1) andres (1) and address (1) and addres (1) and addres (1) and		of the substance/mixture and o	f the	SU Sector of use PC Product category		
Product name giBCRA sector ign0ff: encommutativesse readown if weaker addawn if w	Product identifier			ERC Environmental rele-	ase category	
Product odde 04253722820 DCA Default Belavant identified uses of Lance or mixture and uses advised against: DCA Default of Land in defaulty Cataling hardwordshould uses DCA Default of Lang Market in the Same or mixture and uses advised against: DCA Cataling hardwordshould use DCA Default of Lang Market in the Same or mixture and uses advised against: DCA Default of Lang Market in the Same or mixture and uses advised against: Default of Lang Market in the Same or mixture and uses advised against: DCA Default in the Same or market in the Same or mixture and uses advised against: Default of Lang Market in the Same or mixture and uses advised against: DCA Default in the Same or market i	Product name	STEINSCHLAG ELASTIC		spERC Sector specific env ACEA European automob AIRC Fodoration of vohic CEPE European council of	bile manufacturers association clo ropair organisations of producers and importers of paints, printing inks and artists' colours	
Relevant identified uses of the substance or mixture and uses advised against IT if it is inclusion in the impact of the substance of mixture and uses advised against Counting the professional use Balk Andingtom Measure is inclusion in the impact of the substance of the substance of the impact of the substance of the impact of the substance of the impact of the substance of th	Product code	4025331222620		DOA Duration of activity	1	
Conting representative IPE Representative production argument Define of the supplier of the subject	Relevant identified uses of the	e substance or mixture and uses advi	sed against	TRV Technical room ven	ntilation	
Data of the supplier of the subplice of the	Coating for professional use			RPE Respiratory protect	tion equipment	
Comparing Undertaking Jeturities Jamma Complete Sc. NG Subtaining of yow jub concent in the used subjurities discussion in dindiscussin din discussion in discussion in discussion i	Details of the supplier of the s	afety data sheet		WWTP Waste water treatm	nent plant (on site)	
Production:Suppler Availa Conting Systems Gammary GmbH 4 Co. KO Mainteeners Shear-Doar Hordewice Streption Modewice Streption Production:Suppler Availa Conting Systems Gampary GmbH 4 Co. KO Mainteeners Production:Suppler Availa Conting Systems Gampary GmbH 4 Co. KO Mainteeners Production:Suppler Availa Conting Systems Gampary Holding Pie Lid. Davie Modewice Availa Conting Pie Lid. Production:Suppler Availa Conting Systems Gampary Holding Pie Lid. Davie Modewice Availa Conting Pie Lid. Nat:: Code/Rolat Code/City Impaired in Systems Gampary Holding Pie Lid. Davie Modewice Availa Conting Pie Lid. Nat:: Code/Rolat Code/City Impaired in Systems Gampary Holding Pie Lid. Davie Modewice Availa Conting Pie Lid. Nat:: Code/Rolat Code/City Impaired in Systems Gampary Holding Pie Lid. Davie Modewice Availa Conting Pie Lid. Impaired in Systems Gampary Holding Pie Lid. Impaired Pie	Company/Undertaking Identificat	lon		SVHC Substance of very	high concern	
Information SDS Regulatory Affairs Tatephone +49 (0)202 529-2804 Email aldees Regulatory Affairs +49 (0)202 529-2804 Email aldees Regulatory Affairs +49 (0)202 529-2804 Emergency telephone Emergency telephone number of manutile states.com Reference (1) Reference (1) Section 2. Hazards identification facturer Reference (1) Reference (1) Section 2. Hazards identification facturer Category 1 Reference (1) Reference (1) This proparation is hazardous per the following GHS = the reference facturer Category 2 Reference (1) Reference (1) Chronic aquate toxidiy Category 2 Category 2 Reference (1) Reference (1) Reference (1) EMS-Labeling Hazardsymbols Category 2 Reference (1) Reference (1) Reference (1) Reference (1) Specification factor Category 2 Category 2 Reference (1) Reference (1) Reference (1) EMS-Labeling Hazardsymbols Category 2 Reference (1) Reference (1) Reference (1) Reference (1) Specification (1) Category 2 Reference (1) Reference (1) Reference (1) Reference (1) EMS-Labeling (1) Reference (1) Reference (1) Reference (1) Reference (1) Specification (1) Reference (1) Reference (1) Specification (1) <td>Street/Box NatCode/Postal code/City Telephone Importer Street/Box</td> <td>Horbeller Str. 15 DE 50858 Köln +49(0) 2234 6019-01 Axalta Coating Systems Singapore Holding I</td> <td>Pte Ltd.</td> <td>M(sperc) Maximum volume c by CEPE spERC DNEL Derived No Effect J DMEL Dorived minimum c PNEC Predicted No Effect ECETOC TRA Targeted risk asses</td> <td>of lead substance which can be used safely under conditions described Level offoct lovol 1: Concentration</td> <td></td>	Street/Box NatCode/Postal code/City Telephone Importer Street/Box	Horbeller Str. 15 DE 50858 Köln +49(0) 2234 6019-01 Axalta Coating Systems Singapore Holding I	Pte Ltd.	M(sperc) Maximum volume c by CEPE spERC DNEL Derived No Effect J DMEL Dorived minimum c PNEC Predicted No Effect ECETOC TRA Targeted risk asses	of lead substance which can be used safely under conditions described Level offoct lovol 1: Concentration	
Telefax 449 (0)/02 52 23280 Telefax 449 (0)/02 52 532-800 E-mail address sds-service@axaltacs.com Emergency telephone E-mergency telephone number of manue 4165) 65428595 iaturer K Section 2. Hazards identification This proparation is hazardous per the following GHS citreratore GHS-Classification Calegory 2 Chronic aquatic toxishy Calegory 2 Endersteint which are 'not classified', 'cannot classified' and 'not applicable' are not shown. Hazard symbols	Information on SDS			RCR Risk characterisatio	on ratio	
Emergency telephone number of manure +(65) 65429595 facturer Section 2. Hazards identification This preparation is hazardous per the following GHS criteria GHS-Classification Chronic aquatic toxicity Category 2 Endpoints which are not classified* unot applicable* are not shown. GHS-Labeling Hazard symbols	Telephone Telefax	+49 (0)202 529-2385 +49 (0)202 529-2804				
facture factor	Emergency telephone					
This preparation is hazardous per the following GHS criteria GHS-Classification Chronic aquatic toxicity Category		u- +(65) 65429595				
GHS-Classification Image: Classification Chronic aquatic toxicity Category 2 Endpoints which are 'not classified', 'cannot classified' and 'not applicable' are not shown. Image: Classification GHS-Labelling Image: Classification Hazard symbols Image: Classification	Section 2. Hazards ident	ification				
Chronic aquatic toxicity Category 2 Endpoints which are "not classified", "cannot classified" and "not applicable" are not shown. GHS-Labelling Hazard symbols	This preparation is hazardous per the fo	llowing GHS criteria				
Endpoints which are "not classified" and "not applicable" are not shown. GHS-Labelling Hazard symbols	GHS-Classification					
GHS-Labelling Hazard symbols	Chronic aquatic toxicity	Category 2				
Hazard symbols	Endpoints which are "not classified", "ca	nnot classified" and "not applicable" are not shown	L			
Hazard symbols	GHS-Labelling					
Signal word: Not classified according to GHS criteria	^					
	Signal word: Not classified according	to GHS criteria				
Hazard statements Toxic to aquatic life with long lasting effects.	Hazard statements					
Procautionary statements Avoid releases to the environment. Collect spillage. Availa and Arata Coating Systems are tademarks or registered fracemarks of Arata Coating Systems, LLC and attata Coating Systems are tademarks or registered fracemarks of Arata Coating Systems, LLC and attataces, Spiles Heoler (2), Permatol (2),	Avoid release to the environment.					31903161 v19.2 on Date: 2014-07-22

SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC	SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC
Additional explanation Use by private end consumers (SU 21) not considered as product is assigned for professional use only Wide dispersive use (ERC 8a-8) not assessed as product is assigned for professional use only Wide dispersive use (ERC 8a-8) not assessed as product is assigned for professional use only Wide dispersive use (ERC 8a-8) not assessed as product is assigned for professional use only No relevant substance transfer expected to marine water, sediment, or soil due to use in decirated installations. Environmental assessment only relevant in case of substance transfer into a waste water stream Environmental assessment based on ACEA sector specific ERC aptroach (SpERC factors to solids and volatile) The spERC approach is only applicable to demonstrate safe use of a substance for environmental aspects under REACH. Hazards otue to particle shape negligible due to inclusion in the polymer markir (sillocopenio or sindar computance) Hazards otue to particle shape negligible due to inclusion in the polymer markir (sillocopenio or sindar computance) Hazards otue of PAECAH. H is not suitable to demonstrate compliance with applicable to demonstrate safe use of substances under REACH. H is not suitable to demonstrate compliance with applicable coupational sposure limits (as displayed in section 8 of SDS). Occupational exposure instreat compliance with applicable coupational sposure limits (as displayed in section 8 of SDS). Ocupational exposure is performed for coating material a	No relevant ecoloxicological impact expected; specific description and assessment of environmental exposure obsolete: 3.2. Worker assessment No relevant toxicological impact expected; specific description and assessment of worker exposure obsolete: Further specification: Above exposure assessment is performed for dry content of coating material as supplied. Exposure assessment requires adaptation to ready for use mixture (including reacted compounds where appropriate) 4. Guidance to downstream user to evaluate whether he works inside the boundaries set by the exposure scenario By variation of operational conditions and risk management measures (scaling), a downstream user can check whether he works inside the oxposure control boundaries. Standard scaling can be based on exposure modifying factors as used by ECETOC TRA which are listed below. RCR(e) = RCR(e) * EMR(e)*EMR(e) RCR(e) = RCR(e) * EMR(e)*EMR(e) RCR(e) = exposure modifying factor selected for scaling: EMR(e) = ariginal exposure modifying factor (in part 3) EMF(e) = cosposure addition ratio (in part 3) EMF(e) = cosposure addition factor selected for acting: EMR(e) = ariginal exposure modifying factor (in part 3)
Following advice shall be pursued as long as exposure assessment in part 3 does not contain sufficient information	Example: No technical room vontiliation for mixing of tints (EMF(o) = 0.3), duration of activity restricted to 1 htd (EMF(s) = 0.2) Specific scaling may be based on measured values at the individual site.
Recommendation to use technical room ventilation. Advice to ware shirvey protection as standard RMM due to risk of splashes/troplets. Advice on respiratory protection equipment for PROC 7, 11 is based on Axaita expert judgement. Advice to use signal-bodin or efficient exhaust ventilation. Advice to use signal-bodin or efficient exhaust ventilation. Advice to use integrated dust evacuation, in case of air retrictabiliton in accordance to EN 60355. Recommendation to use respiratory protection equipment as standard RMM due to acrosol formation, even in ventilated booth. Advice to use local exhaust ventilation according to EN 15012 for welding of roated substrates. Advice to use local exhaust ventilation according to EN 15012 for welding of roated substrates. Advice to provide split retention system according to EN 15012 for welding of roated substrates. Recommendation to avoid contact with weiter. Standardised use descriptors according European Chemical Agency (EChA) Guidance on information requirements and chemical safety assessment, chapter R.12	Stango Factor Factor Bespiratory protection oquipmont Factor 25 15 4 0.5 Techor Factor Factor Factor Factor Factor Factor Ion opping Factor Factor <t< th=""></t<>
SU 3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU 22 Professional uses: Public domain (administration, education, entertainment, services, confirmon) PC6a Coatings and paints, tritners, paint removers PC6b Fillers, publics, plasters, andelling day PROC2 Use in closed, continuous process (with ecosational controlled exposure PROC3 Use in back and other process (synthesis) where opportunity for exposure arises PROC4 Use in back and other process (synthesis) where opportunity for exposure arises PROC5 Use in back and other process (synthesis) where opportunity for exposure arises PROC61 Use in back and other process (synthesis) where opportunity for exposure arises PROC5 Transfer of significant contact) PROC61 Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC62 High (mechanical) energy work-up of substances bound in materials and/ or articles PROC62 High (mechanical) energy work-up of substances bound in materials and/ or articles PROC7 Industrial use of processing adis in processes and products, not becoming part of articles PROC74 High (mechanical) energy work-up of substances bound in materials and' or articles	PROC Factor for TRV Factor for LEV Industrial setting Factor for LEV Professional setting Factor for LEV Dermal impact 2 0.3 0.1 0.2 0.1 4 0.3 0.1 0.2 0.1 5 0.3 0.1 0.2 0.1 5 0.3 0.1 0.2 0.005 7 0.05 n.a. 0.05 0.01 8b 0.3 0.1 0.2 0.01 8b 0.3 0.1 0.2 0.01 8b 0.3 Sol 0.05 Sol 0.2 0.1 11 n.a. 0.2 0.25 0.1 24 0.2 0.25 0.1 0.1 12 (high volatility) 1 2 (high volatility) 6.5 0.6 4 (high volatility) 1 2 (high volatility) 0.5 0.5 24 0.2 0.5 0.5 0.5 0.5 0.5 3 (noiduur volatility)
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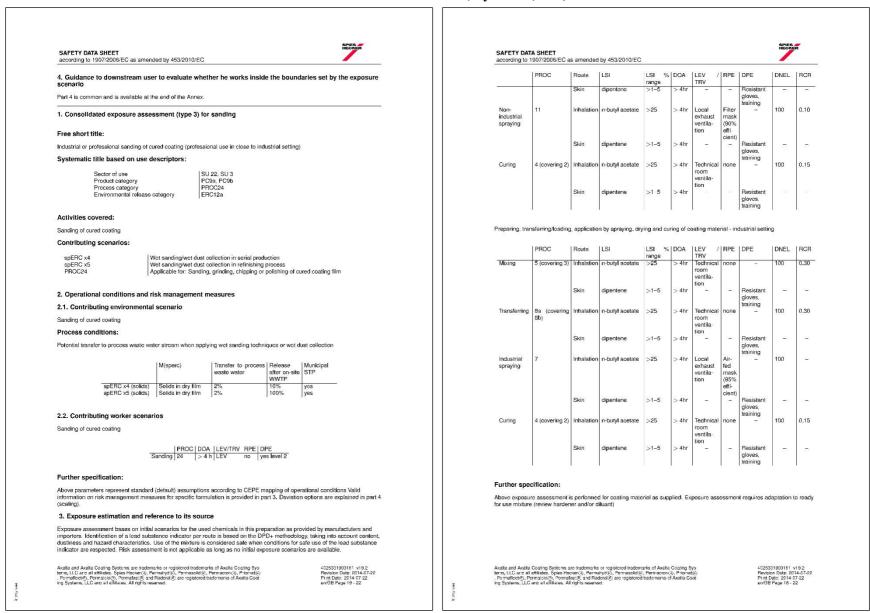
Green Myanmar Environmental Services Co., Ltd.

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"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

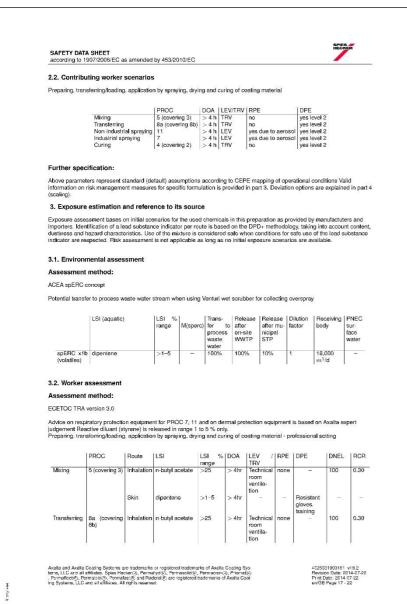
SC Auto (Myanmar) Co., Ltd.

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SC Auto (Myanmar) Co., Ltd.



SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC

Annex - Exposure scenarios

Consolidated exposure assessment for industrial and professional use of coating material

The consolidated exposure assessment provides specific information on how a hazardous substance (in a mixture) is to be managed and controlled. It considers specific conditions of use in order to ensure that a use is safe to humans and the environment. Compliance with operational conditions and risk management measures is required if the exposure assessment is annexed to a mandatory safety data sheet. In this case, identified risk management measures are to be implemented unless the downstream user is able to ensure safe use in a diverging way.

1. Consolidated exposure assessment (type 1) for application of coatings by spraying

Free short title:

Industrial or professional application of coatings by spraying (professional use in close to industrial setting)

Systematic title based on use descriptors:

Sector of use	SL
Product category	PC
Process category	PF
	PF
Environmental release category	EF

U 22, SU 3 C9a, PC9b PROC4 (covering PROC2), PROC5 (covering PROC3), PROC8a (covering PROC8b), PROC7 or PROC11 RC4, ERC5, ERC6d

Activities covered

Preparing (mixing, adding activator, adjusting viscosity), transferring/loading, application by spraving, drving and curing of coating materia

Contributing scenarios

spERC x1	Spray coating including purge loss
PROC4 (covering PROC2)	Applicable for: Drying and curing of coatings
PROC5 (covering PROC3)	Applicable for: Mixing of tints, adding of activator, adjustment of viscosity
PROC8a (covering PROC8b)	Transfer of substance or preparation (charging/discharging)
PROC7	Industrial spraying
PROC11	Non industrial spraying

2. Operational conditions and risk management measures

2.1. Contributing environmental scenario

spE spE

Preparing, transferring/loading, application by spraying, drying and curing of coating material

Process conditions:

Potential transfer to process waste water stream when using Venturi wet scrubber for collecting overspray

	M(sperc)		Release after on-site WWTP	Municipal STP
RC x1	Solids in paint	70%	10%	yes
RC x1	Volatiles in paint	100%	100%	yes

Potential transfer to process waste water stream when treating sludge from equipment cleaning

	M(sporc)		Rolease after on-site WWTP	Municipal STP
spERC x3	Solids in paint	10%	n.a.	yes
spERC x3	Volatiles in paint	10%	n.a.	yes

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Exposure limit for the pure substance http://osha.europa.eu/OSHA	15.2. Chemical Safety Assessment
Training advice	No safety checks were carried out on the mixture.
Directive 76/769/EC	Section 16. Other information
Directive 98/24/EC Further information	Full text of R phrases with no. appearing in section 3
The information of this SDS is based on the present state of our knowledge and onrifo. The product is not to be used for purposes other than those specified under section 1 without a writer permission. It remains the responsibility of the user to ensure that the increasing steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of two to do the work, the hazardous properties and necessary sately are to ensure that the information given in this SDS is to describe the product only in terms of health and sately requirements and should not. Iteration: Changes in the construct as guaranteeing specific properties.	R10 Flammable. R11 Highly flammable. R20 Highly flammable. R20 Harmful by inhibition. R202112 Harmful by inhibition. R202122 Harmful by inhibition. R202122 Harmful by inhibition. R202122 Harmful by inhibition. R21 Harmful by inhibition. R22 Harmful by inhibition. R3738 Initiating to respiratory system and skin. R31 Risk of serious damage to eyes. R41 Risk of serious damage to eyes. R43 May cause sentilisation by skin contact. R5033 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R5153 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Repeated exposure may cause kind dyness or cracking. R66 Repeated exposure may cause skin dyness or cracking. R67 Vapours may cause drowsiness and dizziness. Full text of H phrases with no. appearing in section 3 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H317 May cause an elergic shin reaction. H316 Causes skin intation. H312 Harmful is wailowed, and enters ainways. <
	Information taken from reference works and the literature.
	Substance No. CAS no: www.cas.org/EO/regsys.html EC no: http://ecb.jrc.it/resis/index.php?PGM=ein
	Substances presenting a health or environ- mental hazard within the meaning of Directive 67/548/EEC. http://www.cdc.gov/niosh/ingon?HSDB http://www.cdc.gov/niosh/ipcs/icetart.html
	Other directives, limitations and prohibitory Directive 76/769/EC Directive 98/24/EC Directive 98/24/EC Directive 793/93/EC Directive 793/93/EC Directive 793/93/EC Directive 793/93/EC Directive 2006/8/EC EUR-LEX: http://europa.eu.int/eur-lex/lex
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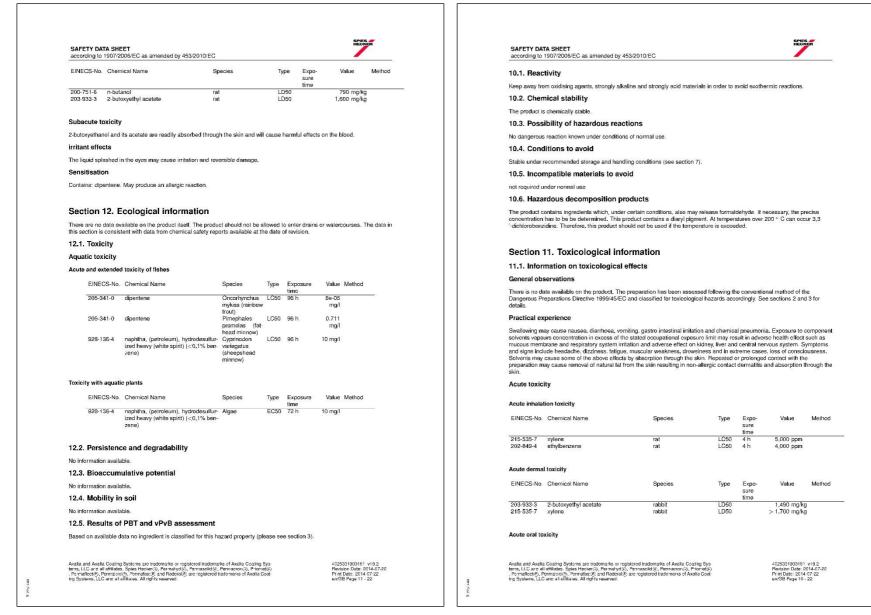
SAFETY DATA SHEET according to 1907/2006/EC as am	ended by 453/2010/EC	SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC
Tunnel restriction code		12.6. Other adverse effects
ADR/RID:	D/E	The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC is dessilied for eco-toxicological properties accordingly. See sections 2 and 3 for details.
Special Provisions		Adsorbed organic bound halogens (AOX)
ADR/RID:	640E	The product contains an organic linked halogen. It may contribute to the AOX-value.
Kemler Code		Conting 10. Discovel examined with the
ADR/RID:	30	Section 13. Disposal considerations 13.1. Waste treatment methods
		Dispose of in accordance with local regulations.
Hazchem Code ADB/RID:	3Y	Product
EmS	31	Recommendation: A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.
IMDG:	F E,S E	Waste Key Number Description
14.4. Packaging group		08 01 11 waste paint and varnish containing organic solvents or other dangerous substances
ADR/RID; IMDG: ICAO/IAT	A: III	Uncleaned packaging
14.5. Environmental hazar ADR/RID; IMDG; ICAO/IA1		Recommendation: Properly emploied containers are to be scrap processed or reconditioned. Improperly emploied containers are considered hazardous waste (waste key number 150110). Waste, including emptied containers, is controlled waste. Do not allow into dri or watercourses or dispose of where ground or surface waters may be affected. If fully drained containers are compacted the constrained as Cantolical disposed of in accordance with the requirements (the Control of Pollution Act 19 and the Environmental Protection Act 1990 (CB), the Pollution Control and Local Government (NI) Order 1978 (NI) or of the (Waste) Regulations 1979 and the EC (Totics & Dargeroux Waste) Regulations 1989 (RL).
Marine pollutant		
IMDG:	yes [dipentene]	Section 14. Transport information
14.6. Special precautions	for user	Transport only in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labeling), ADR for road, RID for rail, IMDG for sea and ICAC/IATA for air transport.
please see section 6 - 8		14.1. UN number ADR/RID: IMDG: ICAO/IATA: 1263
A complete state of the contract on the contra	cording to Annex II of MARPOL 73/78 and the IBC Code	
	-	14.2. UN proper shipping name
Deliveries shall only be made base	d on appropriate packaging and in compliance with traffic laws.	ADR/RID; IMDG; ICAO/IATA: PAINT
		14.3. Transport hazard class(es)
Section 15. Regulator	y information	Hazard class
15.1. Safety, health and er mixture	wironmental regulations/legislation specific for the substance or	ADR/RID; IMDG; ICAO/IATA: 3
National legislation		Subsidiary hazard class
This safety datasheet has been pre	apared according to British legislation.	ADR/FIID; IMDG; ICAO/IATA: Not applicable.
amended (CHIP Regulations). The	the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 as risk associated with the use of this product must be assessed in accordance with the Contro (COSHH) Regulations and the Dangerous Substances and Explosive Atmospheres	Labels
Restricted to professional users.		V
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SAFETY DATA SHEET according to 1907/2006/EC as a	amended by 453/2010/EC	SPIES HECKER	SAFETY DATA S according to 190	SHEET 17/2006/EC as amended by 453	3/2010/EC			HECKER
Eye protection			CAS-No.	Chemical Name	Time Source	Туре	Value	Note
Wear protective eyewear for protective	ection against solvent spatter.		8-		8 hr		3 442 mg/cm3	Skin
Skin and body protection								
Wear suitable protective clothing. resistant synthetic fiber.	. Personnel should wear antistatic clothings made of n	atural fiber or of high temperature			8 hr	STEL	3 100 ppm 552 mg/m3	Skin
Hygiene measures						STEL	125 ppm	
Wash skin thoroughly with soap a	and water or use recognized skin cleanser. Do not use	organic solvents!				TWA	441 mg/m3	
Environmental exposure co	ontrols							
Do not let product enter drains. F	For ecological information refer to section 12.					TWA	100 ppm	
Section 9. Physical a	and chemical properties							
9.1. Information on basic	c physical and chemical properties		8.2. Exposure					
Appearance			1000/00/2011/00/00/00/00/00/00/00/00/00/00/00/00/	hnical information on the	•			
Form: liquid Colour: Odour: O	dour is not perceptible. d environmental information		local exhaust ven	tilation. If these are not sufficie	hieved by a good general extract int to maintain concentrations of lask with gas filtor, type A (EN 14	particulates	oractically feasib s and solvent vap	le- by the use oour below th
			Protective equ	ipment				
Property pH	Value pH cannot be measured due to less solubility in wa-	Method	Personal protectiv	ve equipment should be worn to	o prevent contact with eyes, skin	or clothing		
Melting point/freezing point	ter. Not applicable.		Respiratory pr	otection				
Boiling point/boiling range	117°C 25°C	DIN 53213/ISO 1523	When workers an	e facing concentrations above t	the exposure limit they must use	appropriate	e certified respira	ators.
Evapouration rate	Slower than Ether	Din 55213/130/1523	Hand protection	on				
Flammability (solid, gas) Lower explosion limit Upper explosion limit Vapour pressure	not relevant as product is liquid 1.4 vol-% based on organic solvent content 11.2 vol-% based on organic solvent content 9.1 hPa		The breakthrough substances in the	n time of gloves is unknown for preparation.	the product itself. The glove ma	erial given	is recommended	d on basis of
Vapour density Relative density	no data available 0.95 a/cm ³	20 °C - DIN 53217/ISO 2811	Chemica n-butyl a			Glove thickr 0.7 mm	ness Break thro 10 min	ugh time
Solubility(ies) Water solubility	moderate		n-butyi a	cetate				
Solubility in other solvents	miscible with most organic solvents Listed in: Section	6).33 mm	30 min	
Partition coefficient:	 Composition/information on ingredients This product is a mixture. For ingredient details see 		n butano	1	Viton (R) ^(B)	0.7 mm	480 min	
n-octanol/water Auto-ignition temperature	section 12 201 °C	DIN 51794 based on organic solvent			Nitrile rubber	0.33 mm	480 min	
Decomposition temperature	This product is a mixture. For further information see	content	2-buloxy	ethyl acetate	Viton (R) 😕).7 mm	480 m	
Viscosity (23 ° C)	section 10. >60 s	ISO 2431 - 1993 6 mm			Nitrile rubber).33 mm	480 m	
Explosive properties Oxidizing properties	Not explosive		xylene		Nitrile rubber).33 mm	30 min	
Oxidizing properties	not oxidizing				Viton (R) %).7 mm	480 min	
9.2. Other data								
Solvent separation test	< 3%	ADR/RID	The protective glo compatibility and	ove should be checked in each anti-static properties). When the	case for their work specific suita he intended use is for spray app	bility (e.g. r	nechanical stabi trile glove of the	ility, product chemical res
Content of volatile components (including water)	73.4 %	Basis Vapour pressure >= 0.01 kPa	group 3 (e.g. Den	matril® glove) is to be used. A	fter contamination, the glove ha	s to be char	nged. If immersin	ng the hands
organic solvent content European VOC	73.2 % 73.1 %	Basis Vapour pressure >= 0.01 kPa Basis Vapour pressure >= 0.1 hPa	occur to materials	s specified in section 3 of this S) a butyl or fluorocarbon rubber DS, advice should be sought fro	m the glove	e supplier as to a	appropriate t
		The second se			hrough times. Care should be ta hem ineffective. The instructions			
Section 10. Stability	and reactivity		on use, storage, r replaced immedia	maintenance and replacement i ately.	must be followed. Damaged glo	es or those	e showing signs i	of wear show
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"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SPIES HECKER SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC PNEC CAS-No. Chemical Name Type Sediment Compartment Value 71-36-3 n-butanol 0.015 mg/kg Aquatic Aquatic Fresh water 0.178 mg/ Aquatic Sea-water 0.0178 mg/ 112-07-2 2-butoxyethyl acetate Aquatic Sediment 2.03 mg/ 0.304 mg/ 0.304 mg/ Aquatic Fresh water Sea-water Aquatic 34590-94-8 (2-methoxymethylethoxy)propanol Aquatic Sediment 70.2 mg/ Fresh water Aquatic 19 mg/ Aquatic 1.9 mg/ Sea-wate Community / national occupational exposure limits CAS-No. Chemical Name Time Type Value Note Source 123-86-4 STEL 966 ma/m3 n-butyl acetate STEL 200 ppm TWA 724 mg/m3 150 ppm TWA 71-36-3 n-butanol STEL 154 mg/m3 STEL 50 ppm 112 07 2 2 butoxyethyl acetate 15 min IOELV 333 mg/m3 Skir IOELV 50 ppm Skir 15 min IOELV 133 mg/m3 Skir 8 hr 8 hr IOELV 20 ppm Skir 15 min STEL 50 ppm TWA 20 ppm 8 hr 1330-20-7 xviene 15 min IQELV15 442 ma/cm3 Skin 15 min IOELV15 100 ppm Skir 8 hr IOELV8 221 mg/cm3 Skir 8 hr IOELV8 50 ppm Skir STEL 441 mg/m3 STEL 100 ppr TWA 220 ma/m3 TWA 50 ppm IOELV8 308 mg/cm3 Skin 34590-94-8 (2-methoxymethylethoxy)propanol 8 hr 8 hr IOELV8 50 ppm Skir 8 hr TWA 308 ma/m3 8 hr TWA 50 ppm 100-41-4 ethylbenzene 15 min IOELV15 884 mg/cm3 Skir 15 min IOELV15 200 ppm Skir Axaita and Axaita Coating Systems are trademarks or registered trademarks of Axaita Coating Systems, LC and all attiliates. Spise Heoker(3), Permatydt9), Permaseld(9), Permacenci(3), Priorate); Permatecter(9), Permates(7), Permater(9), and Raderal(9) are registered trademarks of Axaita Coat-ing Systems, LC and all attiliates. All rights reserved. 4025331903161 v19.2 Revision Date: 2014-07-22 Print Date: 2014-07-22 en/GB Page 7 - 22

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personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one. Tho accumulation of contaminated rags may rosult in spontaneous combustion. Good housekooping standards and regular safe removal of waste materials will minimize the risks of spontaneous combustion. and other line hazards.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of theat, ignition and direct sunlight. No smoking, Provent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. The storage and use of this product is subject to the requirements of the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). Up to 50 litres of such highly flammable liquids may be stored in a work area provided they are kept in a fire-product upper of the contraining to the structural requirements of the regulations. Further guidence is contained in the HSE ACOP L135, "Storage of Dangerous Substances".

Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

Do not store together with explosives, gases, exidizing solids, products which form flammable gases in contact with water, exidizing products, infectious products and radioactive products.

7.3. Specific end use(s)

Please see exposure scenarios as given in the annex.

Section 8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

8.1. Control parameters

DNEL

CAS-No.	Chemical Name	End Use	Exposure routes	Fre- quency of exposure	Туре	Value
123 86 4	n butyl acetate	Workers	Inhalative	Long term	Systemic effects	100 mg/kg liq
71-36-3	n-butanol	Workers	Dermal	Long term	Systemic effects	3,125 mg/kg/da
		Workers	Inhalative	Long term	Systemic effects	100 mg/kg liq
		Workers	Oral	Long term		310 mg/kg/dar
112 07 2	2 butoxyethyl acetate	Workers	Dermal	Long term		102 mg/kg/da
		Workers	Inhalative	Long term	Systemic effects	20 mg/kg liq
1330-20-7	xylene	Workers	Dermal	Long term	Systemic effects	3,182 mg/kg/da
		Workers	Inhalative	Long term	Systemic effects	50.17 mg/kg liq
34590-94-8	(2-methoxymethylethoxy)propanol	Workers	Dermal	Long term	Systemic effects	65 mg/kg/da
		Workers	Inhalative	Long term	Systemic effects	50.4 mg/kg liq
100-41-4	ethylbenzene	Workers	Dermal	Long term	Systemic effects	180 mg/kg/da
	0	Workers	Inhalative	Long term	Systemic effects	17.73 mg/kg liq
đ.	naphtha, (petroleum), hydrodesul- furized heavy (white spirit) (<0,1% benzene)	Workers	Dermal	Long term	Systemic effects	44 mg/kg
		Workers	Inhalative	Long term	Systemic effects	59.8 mg/kg liq

Axaita and Axaita Coaing systeme are trademanks or registerior trademarks of Axaita Coaing systems, LLC are all attiliates. Spice Hecker(9, Permaysdy), Permasolid(9, Permasolid(9, Permatoria), Priorate), - Permaffect(9, Permatois(9, Permatos), and Radoral(9) are registered trademarks of Axaita Coating Systems, LLC and all attiliates. All rights reserved. 4025031903161 v19.2 Revision Date: 2014-07-22 Print Date: 2014-07-22 en/GB Page 6 - 22

SPIES HECKER

Green Myanmar Environmental Services Co., Ltd.

LXXXIX

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

SAFETY DATA SHEET according to 1907/2006/EC as amended by 453/2010/EC	SAFETY DATA SHEET according to 1907/2006/EC as
Section 5. Firefighting measures	
5.1. Extinguishing media	CAS 1330 20 7 xyle EC 215-535-7 RE/
Suitable extinguishing media	Classification Flam H33
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.	CAS 138-86-3 dipe
Extinguishing media which shall not be used for safety reasons	EC 205-341-0 RE/ Classification Flar
High volume water jet	Aqu
5.2. Special hazards arising from the substance or mixture	CAS 112-07-2 2-bu
Hazardous combustion products	EC 203-933-3 RE/ Classification Acu
Fire will produce dense black smoke containing hazardous combustion products. Exposure to decomposition products may be a hazard to health.	CAS - nap EC 928-136-4 RE/
Hazardous decomposition products	Classification Flam H41
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.	CAS 100-41-4 ethy EC 202-849-4 RE/
5.3. Advice for firefighters	Classification Flar
Fire and Explosion Hazards	
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors.	Up to the given revision date of t chemical substances used in thi
Special Protective Equipment and Fire Fighting Procedures	Additional advice
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire lighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.	To avoid misinterprotation in any full text of R-phrases in chapter See full text of H-phrases in cha
Section 6. Accidental release measures	Section 4. First aid
6.1. Personal precautions, protective equipment and emergency procedures	4.1. Description of first
Keep in a well-ventilated place. Keep away from sources of ignition. Do not inhale vapours.	General advice
6.2. Environmental precautions	When symptoms persist or in all
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems. Please avoid any emission of volatile organic compounds as possible.	Inhalation
6.3. Methods and materials for containment and cleaning up Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and	Avoid inhalation of vapour or mis stopped, administer artificial res call a physician.
place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.	Skin contact
6.4. Reference to other sections Comply with safety directives (see chapters 7 and 8).	Do NOT use solvents or thinners use recognized skin cleanser. If
	Eye contact
Section 7. Handling and storage	Remove contact lenses. Irrigate modical advice.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.	Ingestion
7.1. Precautions for safe handling	If swallowed, seek medical advice
Safe handling advice	4.2. Most important sym
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the	Please see practical experience
occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container	4.3. Indication of any im
to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. For	If unconscious place in recovery
Avaita and Avaita Coating Systems are trademarks or registered trademarks of Avaita Coating Sys terms, LLC and all attillates, System Housev3, Bernatyd52, Permatold52, Perma	Avaita and Avaita Cooling Systems are terms, LLC are all attiliates. Spike Heve - Perpatiently, Permadory, Permadory ing Systems, LLC are all attiliance. All ri

SPIES HECKER amended by 453/2010/EC эпө ACh 01-2119488216-32 3.00 - < 5.00 % am. Liq. 3, H226; Acute Tox. 4, H312; Skin Irrit. 2, H315; Acute Tox. 4, 32: entene amenie EACh no registration number available am. Liq. 3. H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; 3.00 - < 5.00 % uatic Acute 1, H400; Aquatic Chronic 1, H410; Note C: outoxyethyl acetate EACh 01-2119475112-47 ute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; 3.00 - < 5.00 % phiha. (petroleum). hydrodesulfurized heavy (while spirit) (<0,1% benzene) EACh 01-2119494809-19 am. Lig. 3. H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, 11; EUH066; Note H (Table 3.1): Note P; 1.00 - < 2.00 % hylbenzene EACh 01-2119489370-35 am. Liq. 2, H225; Acute Tox. 4, H332; 1.00 - < 2.00 %

this safety data sheet only the above mentioned REACh registration numbers are assigned to the is mixture.

y case of risk assessment it is not allowed to accumulate the above mentioned percentages. See 16 apter 16.

measures

aid measures

cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.

st. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or piration. If unconscious place in recovery position and seek medical advice. If symptoms persist,

s. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or skin irritation persists, call a physician.

copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek

ce immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

ptoms and effects, both acute and delayed

in section 11.

mediate medical attention and special treatment needed

position and seek medical advice.

trademarks or registered trademarks of Axaita Coating Sys er(3), Permasyd(5), Permasolid(6), Permacron(3), Piornat(6) ((6) and Raderat(6) are registered trademarks of Axaita Coat-ghts reserved.

4025331903181 v19.2 Revision Date: 2014-07-22 Print Date: 2014-07-22 en/GB Page 4 - 22

Green Myanmar Environmental Services Co., Ltd.

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SC Auto (Myanmar) Co., Ltd.

J. Olive basedJ. ConstructionJ. Constructio		D as amended by 453/2010/EC		SAFETY DATA S according to 190	HEET 7/2006/EC as amended by 453/2010/EC
$ \frac{1}{10} $	2.3. Other hazards				1
Predected producted user: 1 Discrete field of a control of a contr	This mixture contains no su	ubstance considered to be persistent, bioaccumulating nor toxic (PBT). This mixt	ture contains no	X	Xi Irritant
Section 3. Composition/Information on ingredients Image: Composition/Information on ingredients 3. Subtances The processition of the avalance is statused in its components 3. Subtances The processition of the avalance is statused in its components 3. Subtances The processition of the avalance is statused in its components 3. Subtances The processition of the avalance is statused in its components Subtances The processition of the avalance is statused in its components Subtances Subtances Subtances Subtan				Å)	
S.1. Substances Note of a network that the network that the network the the second or is comparent. S.1. Substances Projected is network that the network that the network the the second or is comparent. S.1. Substances Projected is network that the network of the second or is not network. S.1. Substances Projected is network that the network that the network of the second or is not network. S.1. Substances Projected is network that the network of the second or is not network. S.1. Substances Projected is network that the network of the second or is not network. S.1. Substances Projected is network that the network of the second or is not network. S.1. Substances Projected is network that the network of the second or is not network. S.1. Substances Projected is network that the network of the second or is not network. Projected is network that the network of the second or is not network. S.1. Substances Projected is network that the network of the second or is not network. Projected is network of the second or is not network. S.2. Substances Projected is network of the second or is not network. Projected is network of the second or is not network. S.2. Substances Projected is network of the second or is not network. Projected is network of the second or is not network.	riesincleu to professional u	Sers.		10	N Dangerous for the environment
The post of a mature. Health hand information is based on its components.Replaces (i)13. MuttersSet for a mature state is mature state is a	Section 3. Comp	osition/information on ingredients		Contains	dipentene.
$ \begin{array}{ c } \hline \text{Rescales} \\ \hline$	3.1. Substances			1000 Mi 400	
3.2. Muture Bob Muture Muture Bob Muture Muture Bob Muture <	This product is a mixture. H	lealth hazard information is based on its components.			
Characterization Bits Total comparison of the particular status with the meaning of Directive 67.644 EEC. Bits Total comparison of the particular status with the meaning of Directive 67.644 EEC. Bits Bits Total comparison of the particular status with the meaning of Directive 67.644 EEC. Bits Total comparison of the particular status with the meaning of Directive 67.644 EEC. CAS 123.64 Particular status with the meaning of Directive 67.644 EEC. Do not treating means and directions on were status response on rescaling. CAS 173.63 Intuiting according to the particular status within the meaning of Directive 67.644 EEC. Do not treating means and directions on were status response on rescaling. CAS 173.64 RAD.Tot (121194442450.03) Col - (15.00 %) S3 Do not treating means and directions on were status response on rescaling. CAS 173.64 RAD.Tot (121194442450.03) Col - (15.00 %) S3 Do not treating means and directions on were status response on rescaling. CAS 173.64 RAD.Tot (12119444260.03) Col - (15.00 %) S3 Do not treating means and directions on were status response on rescaling. CAS 173.64 RAD.Tot (12119444260.03) Col - (15.00 %) Col - (15.00 %) S3 Do not treating means and directions on were status response on rescaling. CAS 173.64 Operture response on rescaling meaning meani	3.2. Mixtures			R36	Irritating to eyes.
Mature of symbolic residue, pigments, and solvents model model Mature of symbolic residue, pigments, and solvents model model model Mature of symbolic residue, pigments, and solvents model model model model Mature of symbolic residue, pigments, and solvents model model model model model Mature of symbolic residue, pigments, and solvents model	Chemical characterizat	tion			
Hazardous components $B27$ <t< td=""><td>Mixture of synthetic resins.</td><td>pigments, and solvents</td><td></td><td>20100-949800-12</td><td>mont.</td></t<>	Mixture of synthetic resins.	pigments, and solvents		20100-949800-12	mont.
Substances presenting a beaktion environmental hazard within the menting of Directive 07540-EEC. Spransecki GAS Table 123-86.4 (Direction 12119-85459-28) 5.00 - < 50.0 %					
CAS 12.84-80-1 B-byth acketes Sphane(s) CAS 12.84-80-1 No.10 1211848403.20 45.00 - < 50.0 %			с.		
ECD0-468-1nEC/C012119486432345.00 - $<$ 55.00 %S84Avoid contact with skin.CASF10.06. (FR77F10.00 %S33T.00 - $<$ 10.00 %S33T.00 - $<$ 10.00 %CassificationR10.06.102119446403382.00 - $<$ 50.00 %S36F10.06.1000 %S36CassificationR10.06.102119446403382.00 - $<$ 50.00 %S36F10.06.1000 %CassificationR10.06.102119446403382.00 - $<$ 50.00 %S36F10.000 %CassificationR10.06.102119446403382.00 - $<$ 50.00 %S36F10.000 %CAS113.00.700F10.000 %S36.00 %S36.00 %F10.000 %CAS113.00.7000F10.000 %S36.00 %F10.000 %F10.000 %CASF10.000 %S36.00 %S36.00 %F10.000 %F10.000 %CASF10.000 %F10.000 %S36.00 %F10.000 %F10.000 %CASF10.000 %F10.000 %S36.00 %F10.000 %F10.000 %CASF10.000 %F10.000 %1.00 - < 2.00 %					
ClassificationP10: P62: R67S37Was stable gloss. In case of insufficient weighting weighting expensionCAD 71:39relationP10: P62: R67S33In case of insufficient weighting weighting expensionCAD 71:39: An R20 ministrationP10: R67: R672 exprover for activeS00 - < 5.00 %		n-butyl acetate REACh 01-2119485493-29	45.00 - < 55.00 %		
CAS 11/2400 Feature Sol Sol Avoid release to the environment. Refer to special instructions? Safety data sheets. CAS 11/2000 Feature Sol Sol Sol Sol Sol CAS 11/2000 Feature Sol Sol Sol Sol Sol Sol CAS 11/2000 Feature Sol Sol Sol Sol Sol Sol Sol CAS 11/2000 Feature Sol Sol Sol Sol Sol Sol CAS 11/2000 Feature Sol Sol<				S37	Wear suitable gloves.
Clissification P10, XE, R37/38, XE, R27, 28, XE, R27, XE, R41 CAS 112-07-2 2-bit Mignation number available 3.00 < 5.00 % Clissification XE, R27/38, XE, R27, 28, XE, R27, XE, R41 Labelling according to Regulation (EC) No 127122008. CAS 1380-20122 Constraints Status Constraints Status Constraints Status	CAS 71-36-3	n-butanol			Avoid release to the environment. Refer to special instructions/ Safety data sheets.
DAS112.07-2 EX2-but/optimity dentate to more global in number available $3.00 < 5.00 %$ CAS138.96.3Giperitoria optimitication $3.00 < 5.00 \%$ CAS138.96.3Giperitoria 			7.00 - < 10.00 %		
EC 202-933-3 PEACh no registration number available $3.00 < 5.00$ % Classification Attra Pacyl / 22 22.00 % $2.00 < 5.00$ % $2.00 < 5.00$ % CAS 130.963.3 dipentare $2.00 < 5.00$ % $2.00 < 5.00$ % $2.00 < 5.00$ % CAS 130.00 < 7.00 < 7.00 % $2.00 < 5.00$ % $2.00 < 5.00$ % $2.00 < 5.00$ % $2.00 < 5.00$ % CAS 130.00 < 0.12 (1).404021 0-32 $3.00 < < 5.00$ % $2.00 < 5.00$ % $2.00 < 5.00$ % $2.00 < 5.00$ % $2.00 < 5.00$ % CAS 130.00 < 4.200 % $1.00 - < 2.00$ % $1.00 - < 2.00$ % $1.00 - < 2.00$ % $1.00 - < 2.00$ % $1.00 - < 2.00$ % $1.00 - < 2.00$ % Hazard oia latements Imamable light and vapour. $1.00 - < 2.00$ % Hazard siatements Hazard siatements Hazard siatements Hazard sia	CAS 112-07-2	2-butoxyethyl acetate		Labelling accor	ding to Regulation (EC) No 1272/2008.
CAS138-88-3 ECdigentere EC3.00 < 5.00 % (2.00×10^{-1}) $($	EC 203-933-3	REACh no registration number available	3.00 - < 5.00 %	Pictogram and Si	gnal word of the product
EC 205 341 0 REACh more gistration number available 3.00 < 5.00 %					
CAS 1330-20-7 xylene EC 215-535-7 FEACh 01/2119488216-32 3.00 - < 5.00 %	EC 205 341 0	REACh no registration number available	3.00 < 5.00 %		
EC 215:535-7 FEACh 01-2119488210-32 3.00 - < 5.00 %	Classification	R10: Xi: R38: R43; N: R50/53; Xn: R65		Signal word: Dang	er
Classification R10: Xr: R20/21; Xi: R3; NotaC Contains I=builyl acctate I=builyl acctate Appendence Classification Contains I=builyl acctate I=builyl acctate Appendence I=builyl acctate I=builyl acctate Appendence CAS 100-01-2 Eff.Ch 01-2119456011-50 I=builyl acctate I=builyl acctate Appendence I=builyl acctate I=builyl acctate Appendence CAS 100-01-4 eff.Phuily acctate I=builyl acctate Classification I=builyl acctate I=builyl acctate Appendence I=builyl acctate I=builyl		xylene BEACh 01-2110/88216-32	3.00 - < 5.00 %	Hazardous comp	onents which must be listed on the label
CAS 34590-94-6 [2-mothoxymothylohox/joropanol EC 252-104-2 1.00 - < 2.00 %			3.00 - < 3.00 %	Contains	
Classification Substances for which there are Community workplace exposure limits. CAS 100-114 ethylexizzine EC 202-849-4 PEACh no registration number available 1.00 - < 2.00 %		(2-methoxymethylethoxy)propanol			dipentene
CAS100-41-4 ECethylbenzene ECImage: StatementsCASREAChno registration number available $1.00 - < 2.00 \%$ ClassificationF. R11; Xn. R20H226Causes skin quote. H315CAS - Classificationnaphtha, (petroleum), hydrodesulturized heavy (white spirit) (<0,1% benzene) EC $1.00 - < 2.00 \%$ EC928 136 4REACh01 2119494000 19 $1.00 - < 2.00 \%$ ClassificationR10: N: R51/53; Xn: R65; R66; R67 $1.00 - < 2.00 \%$ Substances presenting a health or environmental hezard within the meaning of Regulation (EC) No 1272/2008 $H226$ CAS 123-86 4 Classificationn-butyl acetate EC $20.458-1$ CAS 71:36:3 Classificationn-butyl acetate EC $20.458-1$ CAS 71:36:3 Classificationn-butyl acetate EC $7.00 - < 10.00 \%$ CAS 71:36:3 Classification $7.00 - < 10.00 \%$ FIRE LL, 23, H236; EUH066; Classification $7.00 - < 10.00 \%$ P305 + P331 + P331 P333 + P313H34in initation or nah occurs; Get modical advice/ attemptsP316Collect spillable.P316Collect spillable.			1.00 - < 2.00 %		naphtha, (petroleum), hydrodesulturized neavy (white spirit) (<0,1% benzene)
EC 202-493-4 Financial Equilation number available $1.00 - < 2.00\%$ Classification Finit Xn: R20 Haze Financial Equilation number available $1.00 - < 2.00\%$ CAS naphtha. (perfoleum), hydrodesulturized heavy (white spirit) (<0,1% benzene) $1.00 - < 2.00\%$ Haze Financial Equilation Haze Financial Equilation Haze Financial Equilation CAS naphtha. (perfoleum), hydrodesulturized heavy (white spirit) (<0,1% benzene) $1.00 - < 2.00\%$ Haze Financial Equilation Haze Haze Financial Equilation Haze Haze <th< td=""><td></td><td></td><td></td><td>Honord statement</td><td></td></th<>				Honord statement	
CASnaphtha, (petroleum), hydrodesulturized heavy (white spirit) (<0,1% benzene) EC 928 136 4, ClassificationH317Mag cause analergic skin reaction.EC 928 136 4, ClassificationN10: N: R51/S3; Xn: R65; R66; R671.00 - < 2.00 %	EC 202-849-4	REACh no registration number available	1.00 - < 2.00 %	H226	Flammable liquid and vapour.
CAS - naphtha, (petroleum), hydrodesulturized heavy (white spirit) (<0,1% benzene)				H315 H317	
Classification R10: N: R51/53; Xn: R65; R60: R67 H11 Tock to aquate life with long lasting effects. Repeated exposure may cause skin dryness or cracking. Substances presenting a health or environmental hazard within the meening of Regulation (EC) No 1272/2008 H111 Tock to aquate life with long lasting effects. Repeated exposure may cause skin dryness or cracking. CAS 123-86:4 n-butyl apolate P210 Keep away from healtsparks/open flames/hot surfaces No smoking. CAS 123-86:4 n-butyl apolate P210 Keep away from healtsparks/open flames/hot surfaces No smoking. CAS 71-36-3 n-butanol Flam. Liq. 3, H226, STOT SE 3, H335; EUH066; 7.00 - < 10.00 % CAS 71-36-3 n-butanol EC 20.0 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4 - K1430-38 7.00 - < 10.00 % EC 20.4		naphtha, (petroleum), hydrodesulfurized heavy (white spirit) (<0,1% benzene) REACh 01 2119484809 19	1.00 - < 2.00 %	H318	Causes serious eye damage.
Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No 1272/2008 CAS 123-86-4 n-butyl acetate EC 204-658-1 REACh 01-2119485493-29 Classification Flam. Liq. 3, H226; STOT SE 3, H336; EUH066; CAS 71-36-3 n-butanol EC 200-751-6 REACh 01-2119486430-38 Classification Flam. Liq. 3, H226; Acute Tox. 4, H302; Skin Imit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H336; STOT SE 3, H336; STOT SE 3, H336;	Classification	R10; N: R51/53; Xn: R65; R66: R67	ware Martinett	H411	Toxic to aquatic life with long lasting effects.
CAS 123-86-4 c2 04-558-1 classification n-butyla colator Precautionary statem=x CAS 123-86-4 c2 04-558-1 classification n-butyla colator NEACh 01-2119485493-29 45.00 - < 55.00 %				EUH066	Hepeated exposure may cause skin dryness or cracking.
CAS 123-86.4 n-but/j acetate P210 Kee away from healtsparks/open flames/hot surfaces No smoking. CAS 123-86.4 n-but/j acetate P210 Kee away from healtsparks/open flames/hot surfaces No smoking. CAS 71-36-3 n-but/j acetate P210 Kee away from healtsparks/open flames/hot surfaces No smoking. CAS 71-36-3 n-but/j acetate P210 Kee away from healtsparks/open flames/hot surfaces No smoking. CAS 71-36-3 n-but/j acetate P210 Kee away from healtsparks/open flames/hot surfaces No smoking. CAS 71-36-3 n-but/j acetate P210 Kee away from healtsparks/open flames/hot surfaces No smoking. CAS 71-36-3 n-but/j acetate P210 Wear protective glowspirotective diplowspirotective glowspirotective	Substances presenting a	health or environmental hazard within the meaning of Regulation (EC) No	1272/2008	Dependent	towarts
EC 204-658-1 REACh 01-2119484593-29 45.00 - < 55.00 % Classification Flam. Liq. 3, H226 Notice P261 Avoid treleasing dust vapours' gpray. Classification Flam. Liq. 3, H226 STOT SE 3, H336; EUH066; P261 Avoid treleasing dust vapours' gpray. CAS 71-36-3 n-butanol P273 Avoid releasing dust vapours' gpray. EC 200-751-6 REACh 01-211948450-38 7.00 - < 10.00 % P305 + P351 + P338 P305 + P351 + P338 P305 + P351 + P338 Timmediately cold value rinsing. Timmediately cold value rinsing. Timmediately cold value rinsing. Timmediately cold value rinsing. P310 + P331 + P331 P333 + P313 P333 + P313 P333 + P313 P331 + P33 P331 + P331 P331 + P331 P331 + P331 P331 + P331 P331 + P33 P331 + P331 P331 + P331	CAS 123-86-4			P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
CAS 71-36-3 n-butanol Wear protective gloves/protective gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/protective/gloves/gloves/protective/g			45.00 - < 55.00 %	P261	Avoid breathing dust/ vapours/ spray.
EC 200-751-6 REACh 01-2119484630-38 7.00 - < 10.00 % P305 + P351 + P338 In the continue of the co					Wear protective gloves/protective clothing/eye protection/face protection.
Classification Flam. Liq. 3. H226; Acute Tox. 4. H302; Skin Init. 2, H315; Eye Dam. 1, H318; P310 Immediately call a POISON CENTER or doctor/ physician. STOT SE 3, H335; STOT SE 3, H336; P333 If skin imitation or rash occurs: Got modical advico/ attention. P391 Collect splitance.	EC 200-751-6	REACh 01-2119484630-38	7.00 - < 10.00 %		to do. Continue rinsing.
P391 Collect sollare.					Immediately call a POISON CENTER or doctor/ physician.
		anatorea - essente a posene establistica aporte del transmissione del constructione del constructione del const		P391	Collect spillage.
r4us + r2ss sidre in a weinveriniated place, keep container tightly dosed.				P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Adda and Adda Cooling Sprinne and redormalise or registrated instances of Adda Cooling Sprinne and redormalise or registrated instances of Adda Cooling Sprinne and redormalise of Adda Redormalise of Adda Cooling Sprinne and Redormalise of Adda Co	Axalta and Axalta Coating System	ns are trademarks or registered trademarks of Axaita Coaing Sys 40	25331903161 v19.2	Axalta and Axalta Coat	ing Systems are trademarks or registered trademarks of Avaita Coating Sys tes, Spies Heoker(3), Permatyld(5), Permasolid(3), Permator(3), Priomat(5), Permator(3), Permatyld(3), Permasolid(3), Permator(3), Priomat(6), Permital 2014, Prior 2014, Pr

Green Myanmar Environmental Services Co., Ltd.

XCI

				A	RIVDE Safaty Data		
					🥗 Safety Data	a Sheet (SDS)	
	SAFETY DATA SHEET according to 1907/2006/EC as amended	by 453/2010/EC	SPIES HECKER	Date I	repared/Revised: 10/1/18 Version	no.: 02 Supersedes: (12/2/2014)	
	Section 1. Identification of company/undertaking	the substance/mixture and of the			1	1	
	1.1. Product identifier			To the	best of our knowledge, the informa	tion contained herein is believed to	he accurate However the
	Product name	Permacron Mixing Colour Series 293 (N), (XI)		above detern	data does not imply any guarantee o ination of the suitability of any mat t un-known hazards and should be u	or warranty of any kind, expressed erial is the sole responsibility of the	or implied. The final e user. All materials made
	Product code	4025331903161			, we cannot guarantee these are the		nazarus art utsuriotu
	1.2. Relevant identified uses of	the substance or mixture and uses advised a	gainst	100100	•		
	Identified uses						
	Sector of use Product category Further information see chapter Exposure	guideline of the European Chemical Agency SU 3, SU 22 PC9a, PC9b scenario Jóssional use. nol for any private consumer use.					
	1.3. Details of the supplier of the	e safety data sheet					
	Company/Undertaking Identification	n					
	Producer/Supplier Street/Box NatCode/Postal code/City Telephone	Axalta Coating Systems Germany GmbH Horbeller Str. 15 DE 50858 Köhn +49(0): 2234 6019-01					
	Information on SDS						
	Responsible Department Telephone Telefax	Regulatory Alfairs +49 (0)202 529-2385 +49 (0)202 529-2804					
	1.4. Emergency telephone						
	Emergency telephone number of manu- facturer	+44 (0)845 600-6640					
	For further information, please also	o consult our Internet site					
	http://www.spieshecker.com						
	Section 2. Hazards identifi	cation					
	The product is classified as dangerous in a The product is classified as dangerous in a	accordance with Directive 1999/45/EC. accordance with Regulation (EC) No. 1272/2008.					
	2.1. Classification of the substa	nce or mixture					
	Classification of the mixture						
	According to European Directive 1999/4 Classification : Irritant; Sensitising; danger [R10] Flammable. [R36] Irritating to eyes.] skin dryness or cracking. [R67] Vapours m long-term adverse effects in the aquatic en	ous for the environment; Flammable; [R43] May cause sensitisation by skin contact. [R66] Repeat ay cause drowsiness and dizziness. [R51/53] Toxic to aquati	ed exposure may cause c organisms, may cause				
	According to Regulation (EC) No 1272/2 Flam. Liq. 3, H226: Skin Irrit. 2, H315; Skin EUH066;	2008 n Sens. 1, H317; Eye Dam. 1, H318; STOT SE 3, H336; Aqu	atic Chronic 2, H411:				
	2.2. Label elements						
	Labelling according to European Di	irective 1999/45/EC.					
	Symbol and indication of hazard.						
Habi (1921)E	Avata and Avata Coping Systems are trademarks terns, LLC and all attiliates. Spise Heoker-(3), Permat- Permatlicet/9, Permatoic(9, Permatast;8) and Rado ing Systems, LLC and all attiliates. All rights reserved	or registered trademarks of Avaita Coating Sys yds), Permacelo(3), Permacelo(3), Prioratij) ratify are registered trademarks of Avaita Coat- 0,	4025031905161 v19.2 Revisor Date: 2014-07-22 Primi Dato: 2014-07-22 en/GB Page 1 - 22				

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

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AER ate Prep	Safety D					Date Prepared/Revised: 10/1/18 Version no.	02 Supersedes: (12/2/2014)
		La				Skin irritation/sensitization/absorption data: Reproductive toxicity data:	N/AV N/AV
umber N1950	Aerosols	Class 2.1	Group Not Applicable	Pollutant Not Applicable	Provisions Reference 49 CFR 172.101	Mutagenicity data:	Muta. 1B
1DG		37A	Applicable	Application	CFR 172.101	Symptoms associated with physical contact:	N/AV
N	Proper Shipping Name	Hazard	Packing	Marine	Special	Acute/chronic effects from short/long	
umber 1950	Aerosols	Class 2.1	Group Not Applicable	Pollutant Not Applicable	Provisions Reference IMDG code part 3	term exposure:	Irritating to skin. Prolonged/repeated contact r cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer
TA:		23.77		202			
N umber	Proper Shipping Name	Hazard Class	Packing Group	Marine Pollutant	Special Provisions	Known reportable carcinogens via the following agencies:	
110.00	Aerosols, Flammable	2.1	Not	Not	Reference		
11950	Actosis, Malillasic	POR DE T	Applicable	Applicable	IATA Dangerous Goods Regulation	NTP: IARC: OSHA:	N/AV N/AV N/AV
5. Regu Yorkpla his prod	latory Information ce classification: uct is considered hazardou		OSHA Hazard (Communication	Dangerous Goods Regulation	IARC: OSHA: * Petroleum distillates may contain chemical carcinog	N/AV N/AV ens in limited quantities (<0.01%). These quantities are detern he manufacturing process. Chemicals that may be present with
5. Regulation of the second state of the secon	latory Information ce classification: uct is considered hazardou 0). The Occupational Safe s. tile 3: 11/312 Categorizations (44 0, and is categorized as an d Amendment and Reauth- dous substance.	ty and Health 0 CFR 372): immediate a orization Act	OSHA Hazard (h Administration This product is ind delayed heal : (SARA) catego	Communication n's interpretatio a hazardous ch lth, and flamma ory. SARA requ	Dangerous Goods Regulation I Standard (29 (n of the produce emical under 2 bility physical iries reporting	IARC: OSHA: * Petroleum distillates may contain chemical carcinog by the supplier/fraction/purity of the distillate during distillates are listed on California's prop 55 list such as	N/AV N/AV ens in limited quantities (<0.01%). These quantities are determ the manufacturing process. Chemicals that may be present with ETHYLBENZENE, BENZENE, and TOLUENE.
Vorkpla his prod 910.120 worker ARA Ti ection 3 910.120 uperfun ny hazar SCA st iventory	latory Information ce classification: uct is considered hazardou 0). The Occupational Safe s. die 3: 11/312 Categorizations (4 0, and is categorized as an d Amendment and Reauth- dous substance. atus: All chemicals in this 5.	ty and Health 0 CFR 372): immediate a orization Act product are	OSHA Hazard (h Administration This product is ind delayed heal : (SARA) catego listed, or are ex-	Communication n's interpretatio a hazardous ch lth, and flamma ry. SARA requ empt from listin	Dangerous Goods Regulation Standard (29 (n of the produce emical under 2 ubility physical hires reporting ng, on the TSC.	IARC: OSHA: * Petroleum distillates may contain chemical carcinog by the supplier/fraction/purity of the distillate during distillates are listed on California's prop 65 list such as 12. Ecological Information Ecotoxicity: No Data Available Persistence and degradability: No Data Available Bioacoumulative potential: No Data Available Mobility in soil: No Data Available Results of PBT and vPvB assessment: No Data A	N/AV N/AV ens in limited quantities (<0.01%). These quantities are determ the manufacturing process. Chemicals that may be present with ETHYLBENZENE, BENZENE, and TOLUENE.
5. Regu Vorkpla his prod 010.120 worker ARA Ti ection 3 010.120 uper fun- y hazar SCA st ventory VHMIS roducts ROP 65	latory Information ce classification: uct is considered hazardou 0). The Occupational Safe s. tile 3: 11/312 Categorizations (44 0, and is categorized as an d Amendment and Reauth dous substance. atus: All chemicals in this . This product has been cla Regulations (CPR) and the (CA): WARNING: Cane	ty and Health 0 CFR 372): immediate a orization Act product are assified in ac e (M)SDS co	OSHA Hazard (h Administration This product is and delayed heal : (SARA) catego listed, or are ex- cordance with the ntains all of the	Communication n's interpretatio a hazardous ch lth, and flamma ory. SARA requ empt from listin he hazard criter information re	Dangerous Goods Regulation A Standard (29 0 n of the produce emical under 2 bility physical uires reporting ng, on the TSC. ia of the Contr quired by the C	IARC: OSHA: * Petroleum distillates may contain chemical carcinog by the supplier/fraction/purity of the distillate during distillates are listed on California's prop 65 list such as 12. Ecological Information Ecotoxicity: No Data Available Persistence and degradability: No Data Available Bioacoumulative potential: No Data Available Mobility in soil: No Data Available Results of PBT and vPvB assessment: No Data A Other adverse effects: No Data Available 13. Disposal Considerations Waste Disposal: Dispose of material in accoor For proper disposal of used material, an asses and permissible waste management options pr	N/AV N/AV ens in limited quantities (<0.01%). These quantities are determ the manufacturing process. Chemicals that may be present with ETHYLBENZENE, BENZENE, and TOLUENE.
. Regu forkpla ais prod 10.120 worker ARA Ti foction 3 10.120 perfun- sector y hazar Scentry HMIS o ducts ROP 62	latory Information ce classification: uct is considered hazardou 0). The Occupational Safe s. tile 3: 11/312 Categorizations (4 0, and is categorized as an 4 Amendment and Reauth dous substance. atus: All chemicals in this This product has been cla Regulations (CPR) and the 5 (CA): WARNING: Cance	ty and Health 0 CFR 372): immediate a orization Act product are assified in ac c (M)SDS co er and Repro	OSHA Hazard (h Administration This product is and delayed heal : (SARA) catego listed, or are ex- cordance with tu ntains all of the oductive Harm -	Communication n's interpretatio a hazardous ch lth, and flamma ory. SARA requ empt from listin ne hazard criter information re - www.P65War	Dangerous Goods Regulation A Standard (29 0 n of the produce emical under 2 biblity physical aires reporting ing, on the TSC. ia of the Contr quired by the C nings.ca.gov.	IARC: OSHA: * Petroleum distillates may contain chemical carcinog by the supplier/fraction/purity of the distillate during distillates are listed on California's prop 65 list such as 12. Ecological Information Ecotoxicity: No Data Available Persistence and degradability: No Data Available Bioacoumulative potential: No Data Available Mobility in soil: No Data Available Mobility in soil: No Data Available Results of PBT and vPvB assessment: No Data A Other adverse effects: No Data Available 13. Disposal Considerations Waste Disposal: Dispose of material in accor For proper disposal of used material, an asses and permissible waste management options pulaws governing your location.	N/A V N/A V N/A V ens in limited quantities (< 0.01%). These quantities are detem the manufacturing process. Chemicals that may be present wit ETHYLBENZENE, BENZENE, and TOLUENE. wailable vailable dance with EU, national and local requirements. sment must be completed to determine the proper rmitted under applicable rules, regulations and/or ckaging in accordance with federal, state and local
. Regu orkpla is prod 10.120 worker IRA Ti RA Ti IO.120 perfun y hazar oc A st entory wentory wentory wentory wentory KAN SOS	latory Information ce classification: uct is considered hazardou 0). The Occupational Safe s. tile 3: 11/312 Categorizations (44 0, and is categorized as an d Amendment and Reauth dous substance. atus: All chemicals in this . This product has been cla Regulations (CPR) and the (CA): WARNING: Cane	ty and Health 0 CFR 372): immediate a orization Act product are assified in ace e (M)SDS co er and Repro-	OSHA Hazard (h Administration This product is and delayed heal : (SARA) catego listed, or are ex coordance with the ntains all of the oductive Harm -	Communication n's interpretatio a hazardous ch lth, and flamma ory. SARA requ empt from listin ne hazard criter information re - www.P65War	Dangerous Goods Regulation A Standard (29 0 n of the produce emical under 2 biblity physical aires reporting ing, on the TSC. ia of the Contr quired by the C nings.ca.gov.	IARC: OSHA: * Petroleum distillates may contain chemical carcinog by the supplier/fraction/purity of the distillate during distillates are listed on California's prop 65 list such as 12. Ecological Information Ecotoxioity: No Data Available Persistence and degradability: No Data Available Bioacoumulative potential: No Data Available Mobility in soil: No Data Available Results of PET and vPW assessment: No Data A Other adverse effects: No Data Available 13. Disposal Considerations Waste Disposal: Dispose of material in accor For proper disposal of used material, an asses and permissible waste management options p laws governing your location. Product / Packaging disposal: Dispose of pa	N/AV N/AV ens in limited quantities (< 0.01%). These quantities are detern the manufacturing process. Chemicals that may be present with ETHYLBENZENE, BENZENE, and TOLUENE. wailable dance with BU, national and local requirements. sment must be completed to determine the proper rmitted under applicable rules, regulations and/or ckaging in accordance with federal, state and local

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SC Auto (Myanmar) Co., Ltd.

Date Prepared/Revised: 1	0/1/18 Version	no.: 02 Sup	ersedes: (12/2/20)14)		Date Prepared/Re
	- <u>1</u>	65 c	- <u>-</u>	(TWA)		PERSONAL PE 1) Follow person
Isopropanol	67-63-0	200ppm	400ppm	400ppm	N/AV	2) Maintain ade
Hydrocarbon Propellant	68476-86- 8	N/AV	N/AV	N/AV	N/AV	SPILL CLEAN- 1.) Evacuate unpr
*Values are based on th	e 2014 Guide to	Occupationa	ll Exposure Val	ues by ACGIH		2.) Remove sourd 3.) Pickup spilled
9. Information on Basic	Physical and C	hemical Proj	perties			4.) Contain spill 5.) Always dispo
Appearance: Clear, transp	oarent liquidClea	r Odor: A	Alcohol odo r			
Odor Threshold: N/AV			t Applicable (sol	vent Base)		7. Handling and
Melting Point: N/AV			g Point: N/AV			
Initial Boiling Point: N/A			Point Range: N			H andling:
Flash Point: <0° F (-18° (C)		ation Rate: Faste	r than n-Butyl		FI
Plana Lille G. P. U.	Diaman 1	Acetate	: .4% UEL: 11%			
Flammability Solid/Gas: Vapor Pressure: N/AV	Flammable gas		.4% OBL: 11% Density: Heavier	The see A day		W
Relative Density: N/AV			jensity: Heavier ity: Negligible	man Air		Conditions for s
Partition Coefficient:			nition Temperat	ITEN N/AV		St
n-octanol/ water: N/AV		Auto-1g	incion i cinpuac	ui 6. 147 A V		St
Decomposition Temperat	ure: N/AV	Viscosi	ty: N/AV			N
Explosive Properties: N/A			ng Properties: N	/AV		
		1				
10. Stability & Reactivit	y					8. Exposure Cor
Possibility of hazardous r Chemical stability: Stable Conditions to avoid: Heat Incompatible materials: S Hazardous decomposition	e under normal e t and ignition sou trong Oxidizing	onditions rces Agents	zation will not oo	ceur under norm	nal conditions	Appropriate eng Ensure adequate employee exposu Keep away from Take precautiona
11. Toxicological Inform	nation					Personal Protect Eye & face prote
Reports have associated r nervous system damage.	Repeated overex	posure can als	o damage kidne			Skin protection Wear the appropr
Routes of exposure: Ey	es, skin, ingestic	n, and/or inha	lation			appropriate, to pr
Acute toxicological data:		N/A	ĄV			Respiratory pro Use only in an ad pressure-demand

ety Data Sheet (SDS)

10/1/18 Version no.: 02 Supersedes: (12/2/2014)

TIONARY MEASURES:

- ective equipment recommendations found in section 8.
- ntilation.

OCEDURES:

- personnel from the area.
- nition if safe to do so.
- als using non-sparking tools and place in an appropriate container for disposal.
- nt material from entering sewage or ground water systems.
- aste materials in accordance with all EU, National and Local Regulations.

le Aerosol, use in a well ventilated area. e near sources of ignition. eat, drink and smoke while working with this material. ids after use.

age, including any incompatibilities:

of direct sunlight. emperature: 32° to 120°F (0° to 49°C). n incompatibilities.

Personal Protection

g controls:

ion. A system of local and/or general exhaust is recommended to keep w the Airborne Exposure Limits. of ignition. ures against static discharge.

vices such as safety glasses, safety goggles or face shield are recommended.

tective clothing, including boots, gloves, lab coat, apron or coveralls, as cin contact.

y ventilated area. For unknown vapor concentrations use a positive-pressure, ntained breathing apparatus (SCBA).

Hazardous Ingredient		ACGIH TLV (TWA)		OSHA PEL	OSHA PEL (STEL)
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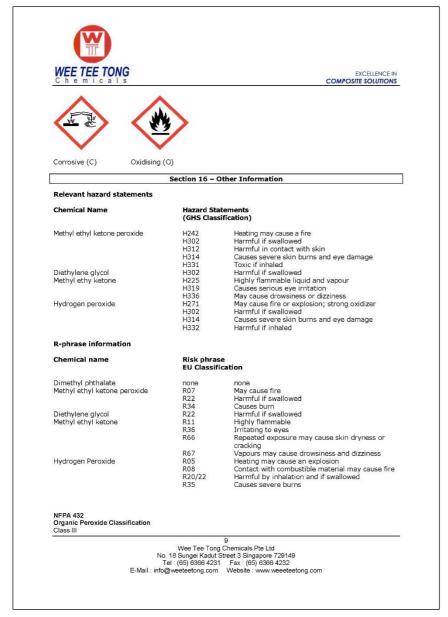
Date Prepared/Revised: 10/	1/18 Version no.: 02 Supersedes: (12/2/2014)	Date Prepared/	Revised: 10/1	/18 Version	1 no.: 02 Su	persedes: (1	2/2/2014)	
Other Product Informatio	n			H340 – Ma	y cause drow y cause genef y cause cance	ic defects	zziness.	
.) First Aid Measures		Precautionary	Statements:	P101 - If m	edical advice	is needed, h	nave product c	container or label
General Advice: nhalation First Aid: Skin Contact First Aid:	If symptoms persist, always call a doctor. Remove victim to fresh air and provide oxygen if breathing is difficult. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately. Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before			P103 - Read P210 - Keej smol P211 - Do r P251 - Pres P261 - Avo	king not spray on a surized conta id breathing o	use heat/sparks/ in open flam iner: Do no lust/fume/gi	open flames/h ne or other ign	m, even after use
bye Contact First Aid:	reuse. If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.			P280 - Wea	and and a second second	gloves/eye p	rotection/face	protection eoff immediately
ngestion First Aid:								
lost Important ymptoms/Effects:	If swallowed, wash out mouth with water provided the person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects.			P410+P412 exce P501 - Disp local	ceding 50°C/1 cose of conter l/regional/nat	m sunlight. 22°F nts/container ional/interna	Do not expose r in accordanc ational regulat	e to temperatures
Iost Important ymptoms/Effects: . Fire Fighting Measures lammable Properties:	conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects.	Symbols/Pictor	grams:	P410+P412 exce P501 - Disp local	Protect from ceding 50°C/1 pose of conter l/regional/nat/	m sunlight. 22°F nts/container ional/interna	Do not expose r in accordanc ational regulat	e to temperatures ce with ion
Iost Important ymptoms/Effects: . Fire Fighting Measures lammable Properties: uito Ignition Temperature uitable extinguishing med	conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects. Acrosol Not Available a: Carbon dioxide, dry chemical, water spray.	Symbols/Picto; 3. Compositio	-	P410+P412 excc P501 - Disp local P251 - Pres	2 - Protect fro ceding 50°C/1 Jose of conter //regional/nat surized conta	m sunlight. 22°F nts/container ional/interna	Do not expose r in accordanc ational regulat	e to temperatures ce with ion
Iost Important ymptoms/Effects: . Fire Fighting Measures lammable Properties: uto Ignition Temperature uitable extinguishing med insuitable extinguishing mo	conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects. Aerosol Not Available a: Carbon dioxide, dry chemical, water spray. edia: None known		-	P410+P412 excc P501 - Disp local P251 - Pres	2 - Protect fro ceding 50°C/1 Jose of conter //regional/nat surized conta	m sunlight. 22°F nts/container ional/interna	Do not expose r in accordanc ational regulat	e to temperatures ce with ion
Iost Important ymptoms/Effects: Fire Fighting Measures lammable Properties: uto Ignition Temperature uitable extinguishing med nsuitable extinguishing med	conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects. Aerosol Not Available a: Carbon dioxide, dry chemical, water spray. edia: None known the None known	3. Compositio	-	P410+P412 excc P501 - Disp local P251 - Pres	2 - Protect fro ceding 50°C/1 Jose of conter //regional/nat surized conta	m sunlight. 22°F nts/container ional/interna	Do not expose r in accordanc ational regulat	e to temperatures ce with ion
Iost Important ymptoms/Effects: Fire Fighting Measures lammable Properties: uto Ignition Temperature uitable extinguishing me uitable extinguishing mo pecial hazards arising fron ubstance or mixture: azar dous combustion pro- ire & Explosion Hazards:	conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects. Aerosol Not Available a: Carbon dioxide, dry chemical, water spray. edia: None known the None known ucts: Carbon dioxide, Carbon monoxide	3. Composition	on / Informat	P410+P412 excc P501 - Disp local P251 - Pres ion on Ingre	2 - Protect fro ceding 50°C/1 boose of conter //regional/nat surized conta	m sunlight. 122°F nts/container ional/interna iner: Do no	Do not expose r in accordanc ational regulat t pierce or bur Hazard	e to temperatures se with ion n, even after use

SC Auto (Myanmar) Co., Ltd.

Duto Hopu ou Horibou. To	/1/18 Version no.: 02 Supersedes: (12/2/2014)	WEE TEE TONG EXCELLEN
1.) Identification of the M	lixture and of the Company	Chemicals COMPOSITE SOLUT
Product identifier: Crown Product name: 1071 Fault-Finder Cleaner Gr	Fault-Finder Cleaner Group 1 - Aerosol oup1	NFPA 704 Rating HMIS Rating Health Flammability Reactivity Health Flammability Reactivity 3 2 2 3 2 2
Relevant identified uses of penetrant. Uses advised against: Poor	the substance: Use to clean metals, glass and plastic before applying ly ventilated areas	
CAS No: EC No: Index No: Manufacturer/Supplier: Street address/P.O. Box: Country ID/Postcode/Place Telephone number: e-mail: National contact: For Product Information: Emergency telephone num 2. Hazards identification Classifications Physical Hazards:	1-775-782-0100 mailbox@aervoe.com Aervoe industries Incorporated 1-800-227-0196	Disclaimer: The information contained herein is considered accurate. However, no warranty is express implied regarding the accuracy of the data, the results to be obtained by the use thereof, or that any such use w infringe any patent. Before using, user shall determine the suitability of the product for the intended use and assumes all risk and liability whatsoever in connection therewith.
Health Hazards:	Flam. Liquid 2 Carc. 1B Muta. 1B Eye Irrit. 2 STOT SE 3	
Environmental Hazards:	N/AV	
Environmental Hazards: Labeling	N/AV	
	N/AV Danger	

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

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WEE TEE TONG EXCELLENCE IN COMPOSITE SOLUTIONS For further advice contact manufacturer. Section 14 - Transportation Information Land transport (ADR/ RID) and / or DOT Class 5.2 **Classification Code** P1 RID class 5.2 TREM-Card or ERG Number CEFIC TEC(R)- 52GP1-L UN number 3105 Proper Shipping Name Organic peroxide type d, liquid; (Methyl ethyl ketone peroxide.) Sea transport (IMDG-code/ IMO) Class 5.2 Packing group II UN number 3105 EMS F-J, S-R Marine pollutant no Proper Shipping Name Organic peroxide type d, liquid; (Methyl ethyl ketone peroxide.) Air transport (ICAO-TI/ IATA-DGR) UN number 3105 Class 5.2 Proper Shipping Name Organic peroxide type d, liquid; (Methyl ethyl ketone peroxide.) Section 15 - Regulatory Information Chemical description Methyl ethyl ketone peroxide in solvent mixture Labelling according to EC directives EC-numbe not applicable R(isk) phrase(s) **Code Description** R07 May cause fire. R20/21/22. Harmful by inhalation, in contact with skin and if swallowed. R34. Causes burns. R43. May cause sensitization by skin contact. S(afety) phrase(s) **Code Description** S03/07. Keep container tightly closed in a cool place. S14B. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). S26. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. \$36/37/39. Wear suitable protective clothing, gloves and eye/face protection. S45. In case of accident of if you feel unwell, seek medical advice immediately (show the label where possible) \$50D Do not mix with peroxide-accelerators or reducing agents. Classification according to 67/548/EC as ammended 8

Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel: (65) 6366 4231 Fax: (65) 6366 4232 E-Mail: info@weeteetong.com Website: www.weeeteetong.com

SC Auto (Myanmar) Co., Ltd.

WEE TEE TON Chemical	Gs	EXCELLENCE IN COMPOSITE SOLUTIONS	WEE TEE TONG EXCELLE Chemicals COMPOSITE SOLU
Irritation			
Skin Mildly Eye Minimally	÷	irritating irritating	Section 10 – Chemical Stability & Reactivity Information
Diacetone alcohol	•	imtaung	Stability
Acute toxicity	1.000	1000	SADT - (Self accelerating decomposition temperature) is the lowest temperature at which
Oral LD50 Dermal LD50	:	rat: 4000 mg/kg rabbit 13.500 mg/kg	accelerating decomposition may occur with a substance in the packaging as used in transp dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion
Inhalation LC50		mouse 500-1900 mg/m ³	can be caused by thermal decomposition at and above the following temperature: 60 °C. Contac
Irritation Skin Mildly		irritating	incompatible substances can cause decomposition at or below the SADT 60 °C.
Eye Severely	÷	irritating	Conditions to avoid To maintain quality store in original closed container below: 25 °C.
Genotoxicity Ames t	test: N	ot mutagenic	Avoid shock and friction. Confinement must be avoided.
		Section 12 – Ecological Information	Incompatibilities Avoid contact with rust, iron and copper, Contact with incompatible materials such as acids, all
			heavy metals and reducing agents will result in hazardous decomposition. Do not mix with pe
No experimental ecol to the ingredient(s) li		data are available on the substance as such. The following data are applicable	accelerators. Use only Stainless steel 316, PVC, polyethylene or glass-lined equipment. Decomposition
,			Acetic acid, Formic acid, Propanoic acid, Methyl ethyl ketone
	e pero	xide, 40 % in Dimethyl phthalate	Other information
Ecotoxicity fish	:	Acute toxicity, 96h-LC50 = 44.2 mg/l. (Poecilia reticulata.)	Emergency procedures will vary depending on conditions. The customer must have an emer response plan in place.
bacteria	:	Activated sludge respiration inhibition test EC50 = 48.0 mg/l .	
Fate Degradation Biotic		Readily biodegradable (Closed bottle test).	Section 11 – Toxicological Information
			No experimental toxicological data on the preparation as such available. The following data are appl
tert-Butyl hydroper Ecotoxicity	roxide	, 70% solution in water	to the ingredient(s) listed below.
fish	:	Acute toxicity, 96h-LC50 = 57 mg/l. (Brachydaniorerio.)	
bacteria Fate	:	Activated sludge respiration inhibition test EC50 =17 mg/l.	Methyl ethyl ketone peroxide, 40 % in Dimethyl phthalate
Degradation Biotic	:	Not readily biodegradable (Closed bottle test).	Acute toxicity Oral LD50 : rat:1017 mg/kg
- Dimethyl phthalate		Sector of the	Dermal LD50 : rat:4000 mg/kg
Ecotoxicity			Inhalation LC50 : rat: 17 mg/l ; 4 hours exposure time Irritation
fish	:	Lepomis macrochirus: 96h-LC50: 420 ppm	Skin : Corrosive
algae Fate	:	Selenastrum capricornutum: 39.8 mg/l (96h-IC50)	Eye : Corrosive Sensitization : Not sensitizing
Degradation Biotic		Readily biodegradable.	Genotoxicity Ames test: Not mutagenic
Other information	:	Bio Concentration Factor (BCF) fish 5.4 (24 hours)	
Diacetone alcohol			tert-Butyl hydroperoxide, 70% solution in water Acute toxicity
Ecotoxicity	:	Lepomis macrochirus: 96h-LC50: 420 ppm	Oral LD50 : rat: 810 mg/kg
fish bacteria	:	Activated sludge respiration inhibition test EC50 =17 mg/l.	Dermal LD50 : rabbit: approx. 790 mg/kg Inhalation LC50 : rat: 1.85 mg/l; 4 hours max. attainable
Fate	0.00		concentration (as 100 % tert-Butyl hydroperoxide)
Degradation Biotic Other information	:	Biodegradable. Bio Concentration Factor (BCF) = 0.5	Irritation Skin : Severely irritating
			Eye : Severely irritating
		Section 13 – Disposal Considerations	Sensitization : May cause sensitization by skin contact.
Product			Dimethyl phthalate
Waste disposal in acc		e with regulations (most probably controlled incineration).	Acute toxicity
Contaminated pack According to local rec			Oral LD50 : rat: >2400 mg/kg Dermal LD50 : rabbit: >10.000 mg/kg
Other information	,		Inhalation LC50 : 9300 mg/m³ (6.5 hours)
		7	6
		Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149	Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149
		NO. TO SUNGER NAGUE STREET 3 SINGAPORE / 29149	No. 16 Sungei Kaout Street 3 Singapore / 29149
		Tel: (65) 6366 4231 Fax: (65) 6366 4232	Tel : (65) 6366 4231 Fax : (65) 6366 4232

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WEE TEE TONG Chemicals	EXCELLENCE IN COMPOSITE SOLUTIONS	WEE TEE TONG EXCELLENCI C h e m i c a l s COMPOSITE SOLUTIO
		Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice.
Section 8 – Exposu	re Controls / Personal Protection	Ingestion
Engineering controls		Only when conscious, rinse mouth, give plenty of water to drink. DO NOT induce vomiting. Seek medica advice.
Ensure good ventilation and local exhaustion recommended.	of the working area. Explosion proof ventilation	Advice to physician
Personal protection		Symptomatic treatment is advised.
Respiratory	11 1 1 0 201 10	Section 5 - Fire Fighting Measures
Do not breathe vapour. Ensure good ventilat Hand	ion and local exhaustion of the working area.	Section 5 - Fire Fighting Measures
Wear suitable protective gloves of neoprene	or synthetic rubber.	Extinguishing media
Eye Wear eye/face protection. A face shield is pre	aforrad over goggler	Carbon dioxide, dry chemical powder, water, foam. Unsuitable extinguishing media
Skin and body	elerred over goggles.	halones.
Wear suitable protective clothing and gloves.	. Take off contaminated clothing immediately.	Hazardous decomposition/
Other information Launder clothes before reuse.		combustion products Carbon dioxide, Acetic acid, Formic acid, Propanoic acid, Methyl ethyl ketone
Methyl ethyl ketone peroxide		Protective equipment
Agency OES-STEL 1.500 mg/m ³		Wear suitable protective clothing. Wear self contained breathing apparatus.
Dimethyl phthalate Agency OES-STEL 5.000 ppm		Other information Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition. Cool close
Diacetone alcohol		containers with water.
Agency OES-STEL 75.000 mg/m ³		Section 6 – Accidental Release Measures
Section 9 – Ph	nysical & Chemical Properties	Section 6 – Accidental Release Measures
	Recorded and a second se	Personal precautions
Appearance and Odour :	liquid colourless	Avoid contact with skin and eyes. For personal protection see Section 8. Environmental precautions
odour :	faint	Collect as much as possible in a clean container for (preferable) reuse or disposal. Do not empty into
Boiling point/range :	not relevant	drains.
Melting point/range : Flash point :	Solidifies at or below -10°C / 14°F 42°C / 108°F (closed cup)	Methods for cleaning up The waste should NOT be confined. Absorb the remainder with e.g. vermiculite. Keep contents moist.
	>63°C / >145°F (open cup)	Other information
Flammability :	61 °C (ISO 3679)	For personal protection see Section 8.
Explosive properties : Oxidizing properties :	no not applicable	Section 7 – Handling and Storage
Vapour pressure :	not applicable	Sector / - handing and Storage
Density : Bulk density :	1130 kg/m³ not relevant	Handling
Solubility in water :	Partly miscible with water at 20°C / 68°F	Never weigh out in the storage room. When using do not eat, drink or smoke. Do not pipet by mouth. E not breathe fumes/vapour. Handle in well ventilated areas. Apply effective local ventilation. Keep away
Solubility in other solvents :	Miscible with phthalates at 20°C / 68°F	from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators,
pH value : Partition coefficient n-octanol/water :	slightly acidic character not determined	driers, metal soaps). Keep product and emptied container away from heat and sources of ignition.
Relative vapour density (air=1)	: not determined	Confinement must be avoided. Avoid shock and friction. Avoid contact with skin and eyes. Storage requirements
Viscosity :	not determined	Store in accordance with local/national regulations. Keep away from food, drink and animal feeding
Active oxygen content : Peroxide content :	9.8 - 10.0 % 36-50 %	stuffs.
Autoignition temperature Test method :	not applicable. (See Section 7)	Store in a dry well ventilated place away from sources of heat and direct sunlight. Keep only in the original container.
SADT 60 °C. :	See also Section 10.	Keep container upright to prevent leakage.
Explosion limits Specific conductivity :	: not applicable not determined	Storage
		For maximum quality store below: 25 °C. Other information
		It is recommended to use electrical equipment of temperature group T3. However, autoignition can new
		be excluded. Wash hands thoroughly after handling or contact. Keep working clothing separately and do not take them home.
	5	
Wee Te	ee Tong Chemicals Pte Ltd	Wee Tee Tong Chemicals Pte Ltd
No. 18 Sundei	Kadut Street 3 Singapore 729149	No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232
T I (OD) OO	66 4231 Fax : (65) 6366 4232	

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	EE TONG nicals			COM	EXCELLENCE IN APOSITE SOLUTIONS
Number	REACH EC- Number Registration Number	Classification according t 1272/2—8 as amended	to		Classification according to 67/548/EEC as amended
1	01-21194 205-011-6	GHS classification	none		none
2	37229-36 01-21195215-661-2 14691-43	Organic peroxide Acute toxicity (inhalation) Acute toxicity (oral) Acute toxicity (dermal) Eye irritation Skin corrosion/ irritation	Type D category 3 category 4 category 4 category 1 category 1B	H242 H302 H312 H314 H331	C O R07 R22 R34
3	01-21194 203-872-2 57857-21	Acute toxicity (oral)	category 15	H302	Xn R22
4	201-159-0	Flammable liquid 7 Eye irritation Target organ, single exposu	category 2 category 2 re category 3	H225 H319 H336	F Xi R11 R36 R66 R6
	231-765-0 Formation non-hazardous ingredie	Oxidizing liquid R35 Acute toxicity (inhalation) Acute toxicity (oral) irritation Skin corrosion/ irritation nts.	category 1 category 4 category 4 Eye category 1 category 1A	H271 H302 H314 H332	C O ROS ROS R20/22
		Section 4 - First Aic	i Measures		
Harmful b' skin contact. C First aid Call a phy: Inhalatio Move to fr difficulty in Skin Remove a	auses injury to the corr sician immediately. n esh air, rest, half uprig n breathing. Remove co	with skin and if swallowe nea and eyelids. Risk of s nt position, loosen clothin Intaminated clothing. Alw g immediately. Wash off wefore reuse.	erious damag ng. Oxygen or vays seek mec	e to eyes. artificial respira lical attention.	tion if there is

117	
WEE TEE TONG	EXCELLENCE IN
Chemicals	COMPOSITE SOLUTIONS
Precautionary stateme	
Code	Description
P210	Keep away from heat, hot surfaces, sparks, open flames and other
00004	ignition sources. No smoking
P220d. P233.	Keep away from dirt, rust, chemicals in particular
	Keep container tightly closed.
P234.	Keep only in original container.
P240.	Ground/bond container and receiving equipment.
P241a.	Use explosion-proof equipment.
P242.	Use only non-sparking tools.
P243.	Take precautionary measures against static discharge.
P260e.	Do not breathe vapours.
P264a.	Wash hands and contaminated skin thoroughly after handling
P270.	Do not eat, drink or smoke when using this product
P271.	Use only outdoors or in a well-ventilated area.
P280d.	Wear protective gloves, eye/face protection and protective clothing.
P301+P330+P331.	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353.	IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water.
P304+P340.	IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
P305+P351+P338.	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P310.	Immediately call a POISON CENTER or doctor/physician.
P378d.	Use waterspray, foam, sand, dry chemical powder or CO2 for
	extinction.
P403+P233.	Store in a well-ventilated place. Keep container tightly closed.
P410.	Protect from sunlight.
P501a	Dispose of contents and container according to local regulation.

Information on hazardous ingredients

Mixture of methyl ethyl ketone peroxide in solvent mixture

Composition / information on ingredients

Number	% w/w	CAS-number	Chemical name
1	35.00 - 45.00	001338-23-4	Methyl ethyl ketone peroxide
2	1.00-5.00	007722-84-1	Hydrogen peroxide
3	7.00-13.00	000111-46-6	Diethylene glycol
4	30.00-50.00	000131-11-3	Dimethyl phthalate
5	3.00-7.00	000078-93-3	Methyl ethyl ketone

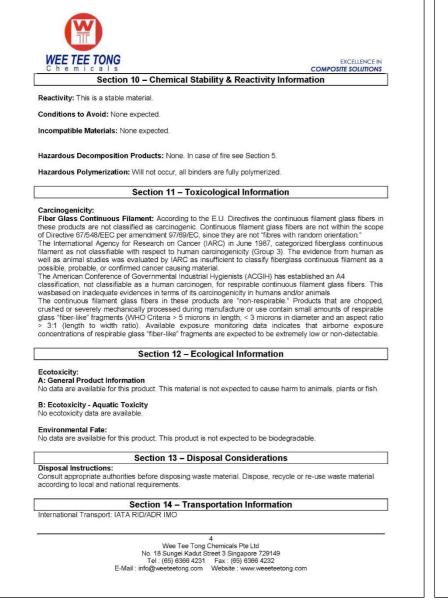
2 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeeteetong.com

SC Auto (Myanmar) Co., Ltd.

<section-header>A Constrained of the series o</section-header>	Hazard Class: None None None UN Number: None None None Packing Group: None None None Section 15 – Regulatory Information Classification and Labeling (EEC): This product is not hazardous according to European Directives 99/45/EC, 67/548/EEC and their latest amendment. Symbol(s): None R-phrase(s): None S-phrase(s): S22 - Do not breathe dust. Component Analysis – Inventory Component CAS # TSCA EINECS Glass, Oxides (Fiber Glass Continuous Filament) 65997-17-3 Yes 266-046-0 Section 16 – Other Information Kev/Lecend
Section 1 - Product and Company Identification Product Name(s) : Methyl Ethyl Ketone peroxide Esterox Series Supplier : WEE TEE TONG CHEMICALS PTE LTD No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : +65-6366-4231 Fax : +65-6366-4232 Section 2 – Hazards Identification May cause fire. Harmful by inhalation, in contact with skin and if swallowed Arg cause sensitization by skin contact. HSI Category 3 Organic peroxide Type D Acute toxicity (inhalation) Category 4 Avia toxicity (inhalation) Category 1 Skin corrosion/ irritation Category 1A Pictogram(s) (GHS) Fignal word: DANGER Signal word: DANGER Eignal word: DANGER 126. Fianmable liquid and vapour.	Section 15 – Regulatory Information Classification and Labeling (EEC): This product is not hazardous according to European Directives 99/45/EC, 67/548/EEC and their latest amendment. Symbol(s): None R-phrase(s): None S-phrase(s): S22 - Do not breathe dust. Component Analysis – Inventory Component CAS # TSCA EINECS Glass, Oxides (Fiber Glass Continuous Filament) 65997-17-3 Yes 266-046-0 Section 16 – Other Information
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Aay cause sensitization by skin contact. Image: Sensitization by skin contact. Image: Sensitization by skin contact. StRS Classification Second Sensitization by skin contact. Image: Sensitization by skin contact. Image: Sensitization by skin contact. Second Sensitization by skin contact. Category 3 Image: Sensitization by skin contact. Image: Sensit at the sensitization by skin contact.	Component Analysis – Inventory Component CAS # TSCA EINECS Glass, Oxides (Fiber Glass Continuous Filament) 65997-17-3 Yes 266-046-0 Section 16 – Other Information
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Organic peroxide Type D Organic peroxide Type D Occute toxicity (inhalation) Category 4 Acute toxicity (oral) Category 4 Systematic and the category 1 Category 1 Skin corrosion/ irritation Category 1A Pictogram(s) (GHS) Image: Category 1A Signal word: DANGER Image: Category 1A 1226. Flammable liquid and vapour.	Glass, Oxides (Fiber Glass Continuous Filament) 65997-17-3 Yes 266-046-0 Section 16 – Other Information
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Acute toxicity (inhalation) Category 4 Category 4 Sep inritation Category 1 Skin corrosion/ irritation Category 1A Victogram(s) (GHS) Category 1A Victogram(s) (GHS) Category 2 Separal word: DANGER 1226. Flammable liquid and vapour.	
Acute toxicity (oral) Category 4 Category 1 Skin corrosion/ irritation Category 1 Skin corrosion/ irritation Category 1A Category 1A Category 1A Signal word: DANGER I226. Flammable liquid and vapour.	
irritation Category 1 Skin corrosion/ irritation Category 1A Victogram(s) (GHS)	Kev/Legend
kin corrosion/ irritation Category 1A Pictogram(s) (GHS) Signal word: DANGER 1226. Flammable liquid and vapour.	
Victogram(s) (GHS)	TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygie
Signal word: DANGER 1226. Flammable liquid and vapour.	IARC = International Agency for Research on Cancer; NTP = National Toxicology Program; WHO =
1226. Flammable liquid and vapour.	Health Organization; IATA = International Air Transport Association; RID = European Rail Transport; A
1226. Flammable liquid and vapour.	European Road Transport; IMO = International Maritime Organization; MEL = Maximum Exposure L
1226. Flammable liquid and vapour.	TWA = Time Weighted Average; STEL = Short-term Exposure Limit Ref: IOM Study: Source: NAIMA
1226. Flammable liquid and vapour.	Unpublished letter. Rat inhalation studies with E-Glass micro-fibers at Institute of Medicine, Sco
1226. Flammable liquid and vapour.	January 30, 1997. Letter to USEPA TSCA 8(e) coordinator.
1226. Flammable liquid and vapour.	
1226. Flammable liquid and vapour.	
1226. Flammable liquid and vapour.	This Product Safety Data Sheet has been prepared in conformity with EU Directive 91/155/EEC; 99/-
1226. Flammable liquid and vapour.	and 67/548/EEC and their latest amendments.
	It is the responsibility of the person in receipt of this product safety data sheet to ensure that the inform
1242. Heating may cause a fire.	contained herein is properly understood by all people who may use, handle or dispose of the produc any way come in contact with the product.
1302. Harmful if swallowed.	The information provided in this product safety data sheet is based on current state of scientific and tec
H314. Causes severe skin burns and eye	knowledge at the date indicated on the present document.
H32. damage. Harmful if inhaled.	
www. duringes hermiten minimes.	
1 Wee Tee Tong Chemicals Pte Ltd	5 Wee Tee Tong Chemicals Pte Ltd
No. 18 Sungei Kadut Street 3 Singapore 729149	
Tel : (65) 6366 4231 Fax : (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeteetong.com	No. 18 Sungei Kadut Street 3 Singapore 729149

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wee tee tong EXCELLENCE IN COMPOSITE SOLUTIONS Germany Alveolar dust: 6 Respirable Fibres: 0.25 Ireland Inhalable dust: 5 Respirable Fibres: 2 Italy Dust 10 Fibres 1 Netherlands Respirable dust: 5 Respirable fibres: 2 General dust: 10 Norway Inert respirable dust: 5 Fibres: 1 Total inert dust: 10 Portugal Fibrous dust: 1 None -- Total dust 4 Spain Dust : 10 Fibres: 1 Sweden Respirable dust: 5 Fibres: 1 Total dust 10 Switzerland Dust : 6 Respirable fibres 0.5 U.K. Respirable dust : 5 Respirable fibres: 2 Total dust : 10 Refer to local legislation for exposure limits in other countries. Ventilation: General ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits. PERSONAL PROTECTION Personal Breathing Protection: Under normal circumstances, breathing protection is not necessary. To avoid irritation a properly fitted P2 disposable filtermask should be used. In extreme circumstances (exposure exceeding the established exposure limit) the use of a properly fitted half-mask respirator with a P2 filter should be used. Use respiratory protection in accordance with your company's respiratory protection program and applicable regulations Loose fitting long sleeved shirts that cover to the base of the neck, long trousers and gloves should be worn. Skin irritation is known to occur chiefly at pressure points such as at the base of the neck, wrist, waist and between the fingers. Be careful not to rub or scratch irritated areas. Rubbing or scratching may force fibres into the skin. In extreme circumstances, a disposable overall and gloves are recommended. Eyes/Face Protective Equipment: To avoid irritation of the eyes, safety glasses with side shields or goggles are recommended. Work and Hygienic Practices: Avoid unnecessary exposure to dust and handle with care. Remove material from clothing using a vacuum cleaner. Never use compressed air. Keep the work area clean of dust and fibres by using an industrial vacuum cleaner with a high efficiency filter. Avoid dry sweeping or the use compressed air. Have access to an eye wash station and shower. Clothing should be washed separately from other clothing. Wipe out washer/sink to prevent loose glass fibres from getting on other articles. Section 9 - Physical & Chemical Properties Vapor Pressure (mm HG @ 20 C): Not applicable Vapor Density (Air=1): Not applicable Specific Gravity (Water=1): 2,60 Boiling Point: Not applicable Solubility in Water: Insoluble Viscosity: Not applicable Appearance: Solid nonwovenmat Physical State: Solid Freezing Point: Not applicable Flash Point: Not applicable Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel: (65) 6366 4231 Fax: (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeeteetong.com CII

SC Auto (Myanmar) Co., Ltd.

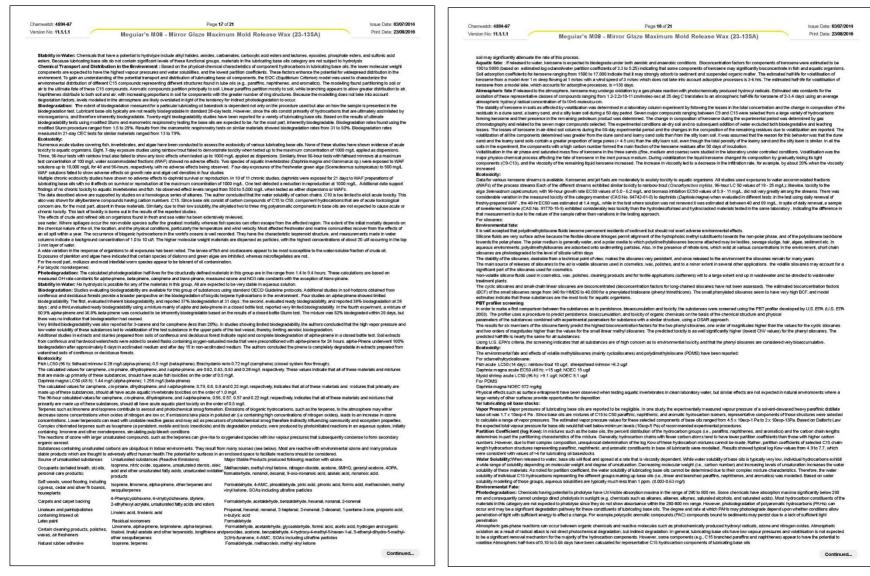
EXCELLENCE IN C h e m i c a l s COMPOSITE SOLUTIONS	WEE TEE TONG Chemicals COMPOSITE SOLUTI
remove fibers. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibers into the skin. Remove polluted clothing. If irritation persists, get medical attention.	SAFETY DATA SHEET : FIBREGLASS ROVING, CHOPPED STRAI CHOPPED STRAND MAT, WOVEN ROVING, MILLED FIBRE, GLASS FLA YARN, FIBREGLASS CLOTH, SURFACE TISSUE, C VEIL, BOAT TA GLASS TAPE, BIAXIAL MAT, UNIDIRECTIONAL FABRIC, QUADRIAX FABRIC.
Accidental ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that intestinal blockage does not occur. Rinse the mouth with water and drink water to remove fibres from the throat. If irritation persists, get medical attention.	Date of Revision : 16 Jan :
Section 5 - Fire Fighting Measures	Section 1 - Product and Company Identification
Flammability: This product will burn poorly. Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog.	Product Name(s): Fibreglass Roving, Chopped Strand, Chopped strand Mat, Woven Roving, Milled Fibre, Class Flake, Yarn, Fibreglass Cloth, Surface Tissue, C Veil, Boat Tape, G Tape, Biaxial Mat, Triaxial, Vitrocore, Unidirectional Fabric, Quadriaxial Fabric
Unusual Fire & Explosion Hazards: Toxic fumes can be released during a fire.	Section 2 - Hazards Identification
Hazardous Combustion Products: Primary combustion products are carbon monoxide, carbon dioxide and water. Formaldeyde, nitrogen oxides, amines and other undetermined compounds could be released in small quantities.	The product is not classified as hazardous according to Regulation (EC) 1272/2008
Section 6 – Accidental Release Measures	Label Elements
Land Spill: Scoop up material and put into suitable container for disposal as a non-hazardous waste.	Signal Word : No signal word Hazard Statements : No critical hazards
Water Spill: This material will sink and disperse along the bottom of waterways and ponds. It can not easily be removed after it is waterborne, however, the material is non-hazrdour in water.	Section 3 – Composition / Information on Ingredients
Air Release: This material will settle out of the air. If concentrated on land it can then be scooped up for disposal as a non-hazardous waste.	Ingredient(s) % by weight Classification Identifiers Fibrous glass 98-100% Not Classified CAS 65997-17-3
Section 7 – Handling and Storage	Polymeric Organic Binder 0-2% Not Classified Not available
Storage Temperature: Not Applicable.	No hazardous ingredient in the meaning of European Directive 67/548/EEC and 99/45/EC and their lates amendments.
Storage Pressure: Not Applicable.	
General: No special storage or handling procedures are required for this material.	Section 4 - First Aid Measures
Section 8 – Exposure Controls / Personal Protection	
Country Particulate (8 hr TWA) mg/m3	Inhalation: Immediately move the affected person to fresh air. If symptoms persist, get medical attention.
Man Made Vitreous Fibres: (8 hr TWA) Fibres / ml	Eye Contact:
Austria Fine dust: (yearly avg) 6 Fibres: 0,5(monthly average) 12	Immediately flush eyes with plenty of water for at least 15 minutes. Do not rub or scratch eyes. Rubbir scratching may cause mechanical damage. If irritation persists get medical attention.
Belgium Dust 10 None Denmark Inert respirable dust: 5 Fibres: 1 Total inert dust: 10	Skin Contact:
Finland Inert Organic Dust 10 Fibres: 1 France Total Dust: 10 Respirable fibres: 1	For skin contact, wash immediately with soap and cold water. Do not wash with warm water because this open up the pores of the skin, which will cause further penetration of the fibres. Use a washcloth to
2. Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6386 4231 Fax : (65) 6386 4232 E-Mail : info@weeteetong.com Website : www.weeteetong.com	1 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax: (65) 6366 4232 E-Mail : info@weeteetong.com Website: www.weeteetong.com

SECTION IV - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Not Combustible Fainmable Limits Nor Applicable Extinguishing Media Use media appropriate for surrounding fire Special Fire Fighting Procedures None required Unusual Fire and Explosion Hazards None SECTION V - HEAL/TH HAZARD DATA	MATERIAL SAFETY DATA SHEET SECTION I Chemical Name and Synonyms Trade Name and Synonyms CAS No. Silicon Dioxide (Amorphous Silica) Reolosil (Amorphous Funded Silica) 112945-52-5 Chemical Family Formula Silicon Dioxide (Amorphous Silica) Non-metal Formula Non-metal SiO ₃ SECTION II - HAZARDOUS INGREDIENTS % TLV (Unit) Pigments Paints, Preservatives & Solvents % TLV (Unit) None Chalyst Vehicle None Spivent Superint None Additives Alloys and Metallic Coating Base Metal None
Flash Point (Method Used) Not Combustible Frammable Limits Nor Applicable Extinguishing Media Use media appropriate for surrounding fire Special Fire Fighting Procedures None required Unusual Fire and Explosion Hazards None SECTION V - HEALTH HAZARD DATA	SECTION I Chemical Name and Synonyms Silicon Dioxide (Amorphous Silica) Trade Name and Synonyms Reolosil (Amorphous Funded Silica) CAS No. 112945-52-5 Chemical Family Non-metal Formula SiO3 i SECTION II - HAZARDOUS INGREDIENTS Paints, Preservatives & Solvents % TLV (Unit) Pigments None Catalyst None Vehicle None Splvent None Additives None Others None Alloys and Metallic Coating Silicon Dioxide (Amorphous Silica)
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Short and Special Fire Fighting Procedures None required Special Fire Fighting Procedures None Stability SiO ₂ : LD ₃₀ (ori-rat) 3.160 mg/Kg Effects of Overexposure Non irritation to skin Emergency and First Aid Procedures Immediately flush with water. Eyes Immediately flush with water. Skin Wash and apply a moisturising skin cream. Stability Stable; No conditions to avoid Incompatibility (Materials to avoid) None Hazardous Decomposition Products Not Applicable Hazardous Polymerization Will not occur; No conditions to avoid Steps to be taken in case material is released or spilled Any feasible mechanical means, such as broom, brush; scoop or vacuum. Waste Disposal Method Any feasible mechanical means, such as broom, brush; scoop or reclaimed in	Trade Name and Synonyms Reolosil (Amorphous Funded Silica) CAS No. 112945-52-5 Chemical Family Non-metal Formula SiO ₃ i SECTION II - HAZARDOUS INGREDIENTS Paints, Preservatives & Solvents % TLV (Unit) Pigments None Catalyst None Vehicle None Solvent None Additives None Others None
SECTION V - HEALTH HAZARD DATA Threshold Limit Value SiO2 : LD30 (ori-rat) 3.160 mg/Kg Effects of Overexposure Non irritation to skin Emergency and First Aid Procedures Immediately flush with water. Eyes Immediately flush with water. Skin Wash and apply a moisturising skin cream. SECTION VI - REACTIVITY DATA Stability Stability Stable; No conditions to avoid Incompatibility (Materials to avoid) None Hazardous Decomposition Products Not Applicable Hazardous Polymerization Will not occur; No conditions to avoid Steps to be taken in case material is released or spilled Any feasible mechanical means, such as broom, brush, scoop or vacuum. Waste Disposal Method Any feasible mechanical means, such as broom, brush, scoop or vacuum.	Trade Name and Synonyms Reolosil (Amorphous Funded Silica) CAS No. 112945-52-5 Chemical Family Non-metal Formula SiO ₃ i SECTION II - HAZARDOUS INGREDIENTS Paints, Preservatives & Solvents % TLV (Unit) Pigments None Catalyst None Vehicle None Solvent None Additives None Others None
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Incompatibility (Materials to avoid) None Incompatibility (Materials to avoid) Not Applicable Hazardous Decomposition Products Not Applicable Hazardous Polymerization Will not occur; No conditions to avoid SECTION VII - SPILL OR LEAK PROCEDURES Steps to be taken in case material is released or spilled Any feasible mechanical means, such as broom, brush; scoop or vacuum. Waste Disposal Method Au retreviel chould be nackage labelled, transported and disposed or reclaimed in	Others None Alloys and Metallic Coating
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Steps to be taken in case material is released or spilled Any feasible mechanical means, such as broom, brush; scoop or vacuum. Waste Disposal Method	Base Metal None
Steps to be taken in case material is released or spilled Any feasible mechanical means, such as broom, brush; scoop or vacuum. Waste Disposal Method	
Steps to be taken in case material is released or spilled Any feasible mechanical means, such as broom, brush; scoop or vacuum. Waste Disposal Method	Alloys None Metallic Coatings None
Any feasible mechanical means, such as broom, brush, scoop or vacuum. Waste Disposal Method	Metallic Coatings None Filler metal plus coating or core flux None
Waste Disposal Method	Others None
All material should be package labelica, transported and disposed of reclaimed in conformance with all applicable local, state and federal regulation.	
	Hazardous Mixtures of other liquids, solids or gases None
SECTION VIII - SPECIAL PROTECTION INFORMATION	SECTION III - PHYSICAL DATA
Design (Encoding (Encoding Dupp)	Appearance White Powder
NIOSH - approved dust respirators if airborne dust concentration exceeds the TLV-	Odour Odourless
Ventilation Sufficient to minimise to vapour. Protective Gloves To prevent drying effect on the skin	Boiling Point (aat 760mmHg) 2,230 deg C (SiO ₂)
Protective Gloves To prevent drying effect on the skill Eye Protection Safety glasses with sideshields or goggles	Vapour Pressure Not applicable Specific Gravity 2.0
Other Protective Equipment None	Oxiranc Oxygen None
ar an anna dhacan sao an dh'adh 20 🔹 🔍 an dhadh	Evaporation rate Not applicable
THE ATT A DECLETION OF	Fluidity Point ~ 1,713 deg C (SiO ₂)
SECTION IX - SPECIAL PRECAUTIONS	
No special precautions are needed.	
Wee Tee Tong Chemicals Pte Ltd	
No. 18 Sungel Kadut Street 3 Singapore 729149 Tel: (65) 6366 4231 Fax: (65) 6366 4232	Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadul Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232

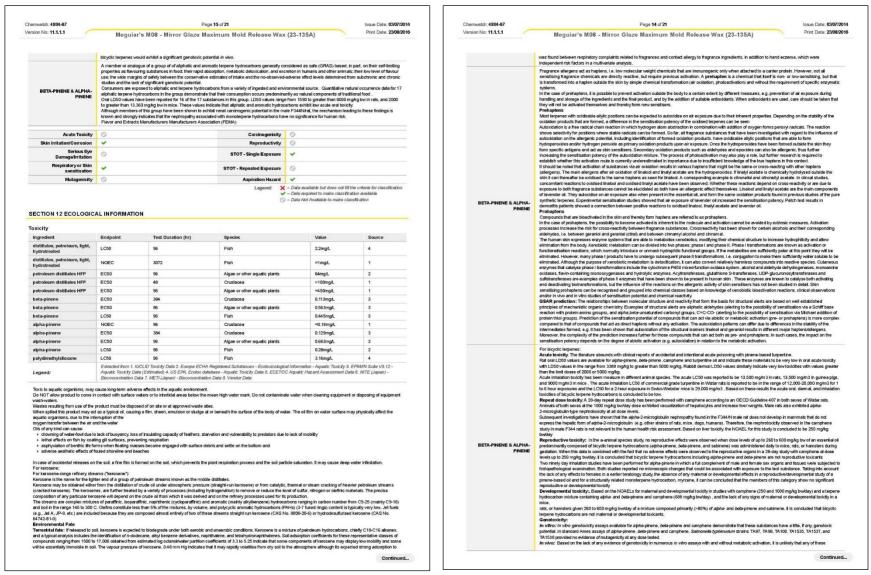
on No: 11.1.1.1	Page 21 of 21	Issue Date: 03/07/2014 Print Date: 23/08/2016	Chernwatch: 4804-97			e Date: 03/07
	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)		Version No: 11.1.1.1	Meguiar's M08 - Mirror G	Slaze Maximum Mold Release Wax (23-135A) Pri	t Date: 23/08
araffin wax	8002-74-2, 12704-91-5, 105054-93-1, 105045-08-7, 115251-23-5, 115251-24-6, 12704-92-6, 12795-75-4, 160936-34-5, 37220-23 39373-78-9, 51331-35-2, 04692-42-1, 57572-43-7, 57608-04-1, 56057-11-7, 64742-45-4, 6474-251-4, 68057-06-9, 68649-50-3, 7	9-8, 37339-80-3, 39355-22-1, 10431-26-4, 72993-88-5,	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBS	TANCE, LIQUID, N.O.S. (contains beta-pinene and alpha-pinene)	
lassification of the preparatio	72993-89-6, 72993-90-9, 6035-62-9, 8044-02-8, 8044-79-9, 9083-41-4, 92045-74-4 in and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwalch Class		Transport hazard class(es)	IMDG Class 9 IMDG Subrisk Not Applicable		
vallable literature references.	sed to assist the committee may be found at:		Packing group			
www.chernwatch.net	and to assist the continuent may be round at.		Environmental hazard	Marine Pollutant		
he SDS is a Hazard Commu	nication lool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in t	the workplace or other				
ettings. Risks may be determ	ined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be consi	dered.	Special precautions for user	EMS Number F-A, S-F Special provisions 274 335 969		
finitions and abbrevi	ations		special precautions for user	Limited Quantities 5 L		
C-TWA: Permissible Conc	entration-Time Weighted Average			Linted Guarties OL		
C — STEL: Permissible Cond RC: International Agency for	centration-Short Term Exposure Limit		Topport in built accord	ing to Annex II of MARPOL and the I	R	
RC: International Agency for CGIH: American Conference	r Research on Cancer e of Governmental Industrial Hygienists		Not Applicable	ing to Annex II of MARPOL and the I	BC code	
EL: Short Term Exposure L EL: Temporary Emergency	imit .		Not Applicable			
LH: Immediately Dangerous	Exposure Lime, s to Life or Health Concentrations		SECTION 15 REGULATO	PY INFORMATION		
SF: Odour Safety Factor DAEL :No Observed Adverse	a Effect Laural		GEO HON IS RECOLATE			
AEL: Lowest Observed Adv	erse Effect Level		Safety, health and environ	nmental regulations / legislation spe	cific for the substance or mixture	
V: Threshold Limit Value D: Limit Of Detection			DISTILLATES, PETROLEUM.	LIGHT, HYDROTREATED(64742-47-8) IS FOL	UND ON THE FOLLOWING REGULATORY LISTS	
TV: Odour Threshold Value			Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)	
F: BioConcentration Factor Biological Exposure Index	rs x		Australia Hazardous Substances	s Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by	IARC
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art from any fair dealing for	the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any pr	rocess without written		IFP(64742-48-9.) IS FOUND ON THE FOLLOW		
mission from CHEMWATC L (+61 3) 9572 4700.	сн.		Australia Exposure Standards	s Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by	
L (401 0) 3012 4700.				a mormation system - consolidated Lists	Monographs	ie prito
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			Australia Inventory of Chemical		11313	
			, tost of a state of a			
				OUND ON THE FOLLOWING REGULATORY	LISTS	
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			Australia Inventory of Chemical	Substances (AICS) 3148-62-9) IS FOUND ON THE FOLLOWING I		
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rsion No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximu	ım Mold Release Wax (23-135A)	Print Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Max	imum Mold Release Wax (23-135A)	Print Date: 23
Waste treatment methods				Photocopier toner, printed paper, styrene polymers	Styrene	Formaldehyde, benzaldehyde	
	Containers may still present a chemical hazardi danger whe	an emoty		Environmental tobacco smoke	Styrene, acrolein, nicotine	Formaldehyde, benzaldehyde, hexanal, glyoxal, N-methylform	
	 Return to supplier for reuse/ recycling if possible. 			Soiled clothing, fabrics, bedding	Squatene, unsaturated sterots, cleic acid and other saturated fatty acids	Acetone, geranyl acetone, 6MHO, 40PA, formaldehyde, nona azelaic acid, nonanoic acid	nal, decanal, 9-oxo-nonanoic a
	Otherwise: If container can not be cleaned sufficiently well to ensure that 	at saviduals righted semain or if the container report he used to s	trive the same provided then	Solled particle filters	Unsaturated faity acids from plant waxes, leaf litter, and	Formaldehyde, nonanal, and other aldehydes; azelaic acid; no	onanoic acid; 9-oxo-nonanoic a
	puncture containers, to prevent re-use, and bury at an author	orised landfil.	the set as the provide the s	Solied particle inters	other vegetative debris; soot; diesel particles	and other oxo-acids; compounds with mixed functional groups	(=0, -OH, and -COOH)
Product / Packaging	 Where possible retain label warnings and SDS and observe DO NOT allow wash water from cleaning or process equiption 	all notices pertaining to the product.		Ventilation ducts and duct liners	Unsaturated fatty acids and esters, unsaturated oils, neoprene	C5 to C10 aldehydes	
disposal	 It may be necessary to collect all wash water for treatment b 	rient to enter drains.		"Urban grime"	Polycyclic aromatic hydrocarbons	Oxidized polycyclic aromatic hydrocarbons	
	 In all cases disposal to sever may be subject to local laws a 	and regulations and these should be considered first.		Perfumes, colognes, essential of (e.g. lavender, eucalyptus, tea tre	Is Limonene, alpha-pinene, linalool, linalyl acetate, e) terpinene-4-ol, gamma-terpinene	Formaldehyde, 4-AMC, acetone, 4-hydroxy-4-melhyl-5-hexen 5-melhyl-2(3H) furanone, SOAs including ultrafine particles	-1-al, 5-ethenyl-dihydro-
	 Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recy 	volina options.		Overall home emissions	Limonene, alpha-pinene, styrene	Formaldehyde, 4-AMC, pinonaldehyde, acetone, pinic acid, p	inonic acid, formic acid,
	 Consult State Land Weste Authority for disposal. 				-melhyl-5-heptene-2-one, 4OPA	benzaldehyde, SOAs including ultrafine particles	
	 Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorise 	ad landfill		Reference: Charles J Weschler;	Environmental Helath Perspectives, Vol 114, October 2006		
	· respectories and a resort possible, or anapole a rit a rational ac	An an ann.		For alkenes (olefins) Environmental fate:			
ECTION 14 TRANSPORT	TINFORMATION			Ecotoxicity studies conducted with	a wide range of products have shown little potential for toxicity	to aquatic organisms under expected conditions of use or in the	event of an accidental release
				all alpha clefins are readily blode	gradable; however, they will ultimately biodegrade. While the o	ctanol/water partition coefficients of alpha olefins suggest a poten efins) and the low-water solubility (indicative of limited bioavailabi	tial for bloaccumulation of the
abels Required				bioaccumulation will not occur. Un	e volability of these materials (especially for the liquid alpha of oder most environmental scenarios, extensive evaporation and	subsequent degradation in the atmosphere would preclude bioavailable	cumulation. Therefore, alpha
				olefins are not expected to be tox	ic to aquatic organisms, will biodegrade, and will not bloaccum	ulate	
	Allb.			olefins range from 50 mgA, at 20	atic organisms to members of the nigher orefins will be influen C for hexene to 0.00015 movil. at 25 C for 1-octadecene, and to	ced by their physico-chemical properties. The predicted or measu 6.6.33 [E-23] mg/L at 25 C for C54 alpha olefin, which suggests th	ared water solubilities of these ere is a lower potential for the
	L AND AND A AND			larger olefins to be bioavailable to	aquatic organisms due to their low solubilities. Their vapor pre	ssures range from 230.6 hPa at 25 C for hexene to 0.00009 hPa	at 25 C for 1-octadecene, an
	a					o partition to the air at a significant rate and not remain in the othe sediment, depending on water solubility and sorption behavior. T	
	~			coefficients (Koc) range from 149	for C6 to 230,800 for C18 and to 1.0 [E10] for C54, indicating	increasing partitioning to soil/sediment with increasing carbon n	umber. Level I fugacity model
	3K					efins would partition primarity to soil. Results of Level III fugacity d C10, soil and sediment become the primary compartments. The	
Marine Pollutant				potential to hydrolyse and do not	photodegrade directly. However, in the air, all members of the ca	ategory are subject to atmospheric oxidation from hydroxyl radical	attack, with calculated
	\bigtriangledown			degradation half- lives of 1.8 to 4.	8 hours. C6-30 olefins have been shown to degrade to an exte	nt of approximately 8-92% in standard 28 day biodegradation test ce shows that the members of the higher cleftns have potential for	s. These results were not clear
HAZCHEM	-32			Volatilisation from water is predic	ed to occur rapidly (hours to days), with Henry's Law Constant	s (bond method) ranging from 0.423 (C6) to 10.7 (C18), and to 2.	89 [E5] (C54) atm- m3/mol.
	- Ne.			Consideration of these degradate	on processes supports the assessment that these substances	will degrade relatively rapidly in the environment and not persist. E	ased on calculated
and transport (ADG)				Although the C8 - 15 olefins have	C7, and C16 and longer chain length category members are n BCFs ranging from 313 to 2030, and Kow values ranging from	ot expected to bioaccumulate (BCF: C6 = 44-46, C7 = 236, C16 4.13 to 7.49, and thus are considered to have the potential for bio	= /1-92 and >= C18 = 3.2-4.0 paccumulation, their physico-
UN number	3062				ate that there would be limited environmental exposure becaus	e of volatility, biodegradability and limited solubility.	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID 1	N O S. (contains beta-pinene and alpha-pinene)		Ecotoxicity: Data indicate that acute aquatic t	micily can be observed for C6 through the C10 platins (C6: E6	CALC50 range of 1-10 mg/L; C7-C10: EC/LC50 range of 0.1-1.0 m	no/L) and that toxicity increas
	Class 9			with increasing carbon number w	thin that range, which is consistent with increasing Kow values	(3.07 -5.12). Above a chain length of 10, toxicity is not observed.	within the limits of solubility
Transport hazard class(es)	Subrisk Not Applicable			However, data indicate that chron differ with bond location or preser	ic aquatic toxicity can be observed in the C10 olefins (EC10 = top of branching	20.0 ug/L, EC60= 28.1 ug/L, NOEC = 19.04 ug/L). Data also sug	gest that aqualic toxicity doe
	Subrisk Not Approable			For Ithium (anion):	ice of blanding.		
Packing group	10			Environmental fate:	in the last of shares that like on our last a constant of all of the second	increasing consumption might therefore result in adverse effects o	
Environmental hazard	Not Applicable			has significant bloavailability only	when administered as a partially soluble salt such as ithium c	arbonate. Lithium is not a dietary mineral for plants but it does stir	nulate plant growth.
	Special provisions 274 331 335 375 AU01			Ecotoxicity:			
Special precautions for user	Limited quantity 51			Fish LC50 (28, 35 days) rainbow Fish LC50 (96 h): fathead minnor	w 42 mg/t NOEC 13 mg/l (sall)		
				Daphnia magna EC50 (48 h): 24		are low. Lithium does accumulate in several species of fish, molius	
Environmentally Hazardous Substan	nces meeting the descriptions of UN 3077 or UN 3082			stored in the digestive tract and e	koskeleton		
are not subject to this Code when tra (a) packagings.	ansported by road or rail in;					ed at lithium ion concentration 10-20 mg/l, slightly inhibited at lith	ium ion concentration 350 m
b) IBCs: or				and seriously inhibited at lithium Microinlection of lithium chloride		s embryo gives rise to duplication of dorsoanterior structures sud	h as the notochord, neural tu
 any other receptacle not exceeding Australian Special Provisions (SP) 				and eyes.			
				DO NOT discharge into sewer or	waterways.		
ir transport (ICAO-IATA / D				Persistence and degradat	ility		
UN number	3062			Ingredient	Persistence: Water/Soil	Persistence: Air	
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. * (contains b	eta-pinene and alpha-pinene)		beta-pinene	HIGH	HIGH	
	ICAO/IATA Class 9			alpha-oinene	HIGH	HIGH	
Transport hazard class(es)	ICAO / IATA Subrisk Not Applicable			and the property of		- Theat	
	ERG Code 5L			Bioaccumulative potential			
				Ingredient	Bioaccumulation		
Packing group	11			distillates, petroleum, light,			
Environmental hazard	Not Applicable			hydrotreated	LOW (BCF = 159)		
	Special provisions	A97 A158 A197		beta-pinene	MEDIUM (LogKOW = 4.16)		
	Cargo Only Packing Instructions	864		alpha-pinene	MEDIUM (LogKOW = 4.44)		
	Cargo Only Maximum Qty / Pack	450 L					
Special precautions for user	Passenger and Cargo Packing Instructions	964		Mobility in soil			
	Passenger and Cargo Maximum Qty / Pack	450 L		Ingredient	Mobility		
	Passenger and Cargo Limited Quantity Packing Instructions	Y954		beta-pinene	LOW (KOC = 1204)		
	Passenger and Cargo Limited data my Packing Interdetions	30 ka G		alpha-pinene	LOW (KOC = 1204)		
	a wave got and vergo primos weathern say / Pack						
				1			
Sea transport (IMDG-Code .	/ GGVSee)						
Sea transport (IMDG-Code . UN number				SECTION 13 DISPOSAL	CONSIDERATIONS		
				SECTION 13 DISPOSAL	CONSIDERATIONS		Cor

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

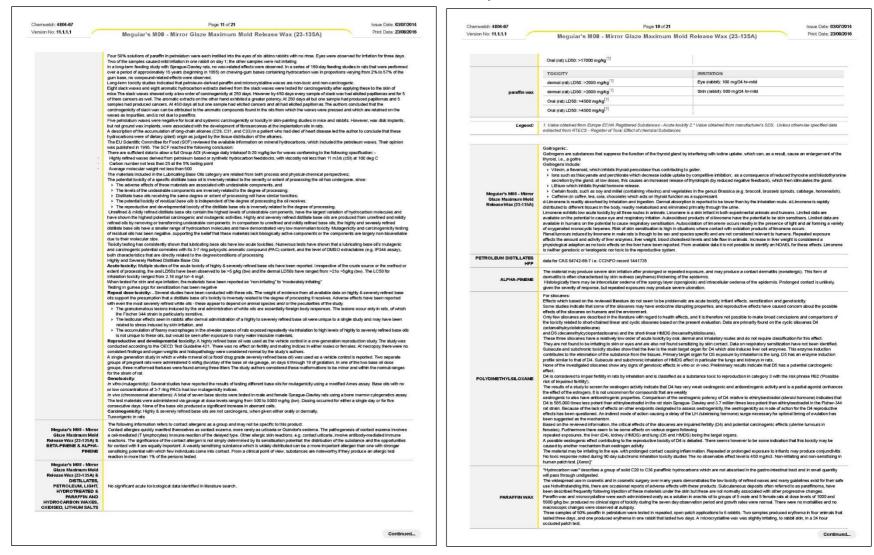


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 A definition of the second defini	Chernwatch: 4804-97	Page 13 of 21	Issue Date: 03/07/2014	Chernwatch: 4804-97	Page 12 of 21	Issue Date: 03/07/20
Image: Constrainty with a way way way way way way way way way w	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Print Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Print Date: 23/08/20
 Image: A set in the set in the		In-tWo Gendosckip: Mulpipe in vice gendoscidy studies have been done on a variety of herosene-based materials. For sample and a sample of 14 warp postler in vice hore memory clopentic tests in Spage-Dawky vice. To of the invosores samples, response in make mice and registrie results in females when lasted in a data or clopentie test in Spage-Dawky vice. To of the invosores and postler is the sample of the sample of the invosores and the sample of the sample	produced a positive e end viel A samples ne jet fuel was administered ne dose per body weight of gestation. There were no of the mental toxicity of HDS	Glaze Maximum Mold Release Wax (23-135A) &	Inversely proportional to the cathon chain length-with tills absorption above C30. With respect to the cathon chain lengths likely paraffram may be absorbed to a greater earth mit to or cyclo paraffins. The major classes of hydrocathors may be absorbed to be with the destription of the section and the section of the section of the section share from concernants if types hydrocathors are ingested in association with destrip light. The sepandines of type scatchors are from concernants if types hydrocathors are ingested in associations provide a section of the section o	to be present in mineral oil, cases, the hydrophobic ride digestion and tumen, created by dietary te) membrane. While some h, there is evidence that most play a major role in
 Further Line Area area area area area area area are	BETA-PNENE & ALPHA- PNENE	While stressme produced no chickl signs. The jet full produced a close-arial de ye initiation (or initicitor). The signs of initiation is most at eminal showing signs for 3 days. Nather of the sist materies hard an effect to roby weights or obdor communitor. Examination not reveal any instantier it weights a stress of these changes or staked alterminating. The sex rate of the futures was also effect on the comparison of the stress of these changes or staked alterminating. The sex rate of the futures was also effect of the comparison. The second of the stress of the second of the	atted from 2 to 8 days with no of offspring at delivery did natificated by treatment with genic condition known as cy criteria for the diagnosis e synoptoms within includes e bronchail hyperreact/My in the criteria for claignosis d duration of exposure to the one of thirtiding substance	Glaze Maximum Mold Release Wax (23-135A) &	This product contains between which is shown to cause acute myeleid leukaemia and n-hexare which has been shown to metabol manapatric. This product contains foluene. There are indications from animal studies that protogold exposure to high concentrations of blue This product contains foluene. There are indications from animal studies that protogold exposure to high concentrations of blue This product contains (however, and an perfudere from which there is overlace of duranus in robatis). Caretinegenisity: Inhalation exposure to finance. Mutagenisity: Them is a large database of mutagenicity studies on gatoline and gatoline blending streams, which use a wide performing the gather treats. All in two studies in minimals and revert studies in exposed humans (c) particl service studies in equivalent exponentiative troated in the robatise in animals and revert studies in exposed humans (c) particl service studies in the reproductive troated in the robatise in exposed humans (c) particle service studies in exposed humans (c) particle service studies in the reproductive troated in the robatise in exposed humans (c) particle service studies in the operation of the service studies in the robatise in the r	ne may lead to hearing loss. osure to rats causes kidney variety of endpoints and give endentis) have shown negative can cause developmental ly in rats exposed to gasoline
 FILTWICE IN THE OUT OF A DEFENDENCE OF A DEFENDEN		Adverse reaction to fragmones in perfumes and in fragmoned cosmolo products include allergie costed demantials, initial costs photosentially immediate costal enables (costal unicidad), and pigneted costal demantial. A home and consuble costad indiversa to partunes, by inhalation, may occur if the perfume costains a sensitising principal. Symptoms may vary from general whereary, cin-st-gifterises, inecaders, excitential approace, accel respiratory lines, indiversa, and there respiratory transcesses (in the cost of the sensitive and the cost of the sensitive and the sensitive and the sensitive and the sensitive and the sensitive placeto-costrolect allargies of the respiratory tract without producing an IgE-mediated allargy or demonstratele respiratory battactic placeto-costrolect allargies of the respiratory tract without producing an IgE-mediated allargy or demonstratele respiratory battactic placeto-costrolect allargies of the respiratory tract without producing and IgE-mediated allargy or demonstratele respiratory battactic placeto-costrolect allargies of the respiratory tract without producing and IgE-mediated allargies of the particle to planter produces.	act dermalitis, dermatilis occur. liness, couphing, philegm, uding asthma), Perfumes n. This was shown by or without a carbon filter		and penetration by other materials. Lifetime exposure of roders to gasoline produces carcinogenicity athough the relevance to humans has been quastioned. Gaso- meter rists as consequence of accumutation of the sighta2-microglobulin protein in hydrine dioptes in the mater (but not female) in excumulation represents hysroomid overbad and leads to chronic rend hubur cell degeneration, accumulation of others, hubues and necrosts. A subtance representive periodiredino occurs in sphtial cell and with subsassant metersistic transmittations to accumulate the site of the site in the site of	line induces kidney cancer in at kidney. Such abnormal ineralisation of renal medullary with continued exposure. The
exacehota pre-existing esthma - Asthma-like symptoms can be provoked by sensory mechanisms. In an epidemiological investigation, a significant association assay produced a mixture of negative and positive results. Hydrodesuffurized kerosene tested in a sister dromatid exchange assay produced negative results		productions, as a nose damp was used to prevent neal inhibition. The patient's earlier springences were werthed the matrixing frave by product werds. The symptom was not a disconsisting the patient's matrixing disk was a springence were handling to be an anomality of the prevent of the symptom was not a disk of the symtom was not a disk of the symptom was not a di	hithe cathoo files had no the explored by the cost by the combinations of sensory deals ford to give persistent combinations of sensory deals and one tore tored of costopies and one tored of costopies and one tored of costopies and cost tored of the immune system. Unless of costopies dargenet. Costaet the immune system will be act upon re-exposure to the act demandition in these to considered of act upon the arms and to other upon re-exposure to the act demanditis to the act demandis to the act demanditis	Giaze Maximum Mold Release Wax (23-135A) & DistiLLATES, PETROLEUM, LIGHT,	Per "brossnest". Acute toxicky, Cold LDGs for three kerosenes (kH A, CAB No. 0000-20-6 and CAB No. 64742-01-0) ranged from > 2.0 > 20, same three kerosenes were al-20 g/kg (tradiation LCS) values in Sprague-Dawky ratis for tradipt no interesteen (CAB No. 64742-01-0) errors policy of the second s	Age The dermit LDS0s of the DBE-DS0; and excepted in risk sylven to the same material to the same material to the same material excepted in the sylven manual sylven and the sylven excepted to the second and the second sylven excepted to the sylven and the sylven second as and frames there 2 a shift as an and second as and sylven the second as and sylven second as an and sylven as an as a sylven as a

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sion No: 11.1.1.1	r ages	9 of 21	Istue Date: 03/07/2014	Chernwatch: 4804-97	Page 8 of 21	Issue Date: 03/
SOUND. TEEET	Meguiar's M08 - Mirror Glaze Maxi	imum Mold Release Wax (23-135A)	Print Date: 23/08/2016	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Print Date: 234
	Petroleum hydrocarbons may produce pain after direct conta	d with the eyes. Slight, but transient disturbances of the corneal e	epithelium may also result. The		following inhalation. In contrast to most organs, the lung is able to respond to a chemical insuit by first removing or neutralising	g the initiant and then repairin
	aromatic fraction may produce initiation and lachrymation.	al is capable either of inducing a sensitisation reaction in a substa	artial pumber of individuals and br		the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may how damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract initiation often results	rever, produce further lung
	of producing a positive response in experimental animals.		antial number of individuals, and/or		involving the recruitment and activation of many cell types, mainly derived from the vascular system.	in an initianinatory response
	Prolonged or repeated skin contact may cause drying with o	cracking, irritation and possible dermatitis following. been expressed by at least one classification body that the materia	al man produce, campa completer		Inhalation hazard is increased at higher temperatures.	
	mutagenic effects; in respect of the available information, how	wever, there presently exists inadequate data for making a satisfac	ctory assessment.		High inhaled concentrations of mixed hydrocarbons may produce narcosis characterised by nausea, vomiting and lightheadedn	ness. Inhalation of aerosols m
	Limited evidence suggests that repeated or long-term occup	ational exposure may produce cumulative health effects involving ithium compounds. These may include tremor, ataxia, clonus and	organs or biochemical systems.		produce severe pulmonary oedema, pneumonitis and pulmonary haemonhage. Inhalation of petroleum hydrocarbons consisting weight species (typically C2-C12) may produce irritation of mucous membranes, incoordination, giddiness, nausea, vertigo, co	
	animal studies have shown that exposure during pregnancy r	may produce birth defects. Other studies with rats, rabbits and mor	nkeys have not shown teratogenic		drowsiness, tremors and anaesthelic slupor. Massive exposures may produce central nervous system depression with sudden of	collapse and deep coma;
	effects. Human data are ambiguous; it is well established that received lithium (as a tranquiliser) there were 25 instances of the second se	at lihium can cross the human placenta. Of 225 registered pregna of congenital malformation. Although pharmacological doses of lit	ancies in which the mothers had thium cannot be unequivocally		fatalities have been recorded. Initiation of the brain and/or apnoetic anoxia may produce convulsions. Although recovery following complete, cerebral micro-haemonthage of focal post-inflammatory scaning may produce epileptiform seizures some months aft	ig overexposure is generally fter the exposure. Pulmonary
	designated as a human teratogen, ithium therapy is contrain	dicated in women of childbearing potential.	an voir Contencivitat Labora a Volence Calendaria.		episodes may include chemical pneumonitis with oedema and haemonthage. The lighter hydrocarbons may produce kidney and inflancy increases with carbon chain length for paraffins and olefins. Alkenes produce pulmonary oedema at high concentration	i neurotoxic effects. Pulmonar
	also show adverse effects.	emaciation. The kidneys, behavioural/central nervous system and			anaesthesia and depressant actions leading to weakness, dizziness, slow and shallow respiration, unconsciousness, convulsio	ons and death. C5-7 paraffins
	Various types of dermatitis (psoriasis, alopecia, cutaneous u exposure.	alcers, acne, follicular papules, xerosis culis, exfoliative) may also	o resull from chronic skin		may also produce polyneuropathy. Aromatic hydrocarbons accumulate in lipid rich tissues (typically the brain, spinal cord and pe produce functional impairment manifested by nonspecific symptoms such as neusea, weakness, faligue and vertigo; severe exp	eripheral nerves) and may posures may produce inebriat
	Lithium ion can be an effective treatment for manic depression	on. It is thought to bind the enzyme IMPase (inositol monophosph)			or unconsciousness. Many of the petroleum hydrocarbons are cardiac sensitisers and may cause ventricular fibrillations.	
		iction of neurotransmitters and hormones thought to be responsib ts LVkg/day (equivalent to 1450 mg for a 70 kg person) but did no			Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, n slowed readion time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory dep	nausea, anaestnetic effects, ression and may be fatal.
	sodium diet. However when sodium was restricted, fatal kidne	ey toxicity developed. Dogs survived daily dose of 50 mg LiC/kg for	or 150 days to the termination of		Inhalation of essential oil volatiles may produce dizziness, rapid, shallow breathing, tachycardia, bronchial imitation and uncons Complications include anurla, pulmonary oedem a and bronchial pneumonia.	sciousness or convulsions.
	The experiment on a normal sodium intake, whereas the same 30 days.	e dose was lethal in 12 to 18 days on a low sodium diet: 20 mg LiC	CVkg/day resulted in death in 18 to		Acute effects from inhalation of high concentrations of vapour are pulmonary initiation, including coughing, with nausea; central	I nervous system depression
	Repeated or prolonged exposure to mixed hydrocarbons ma	y produce narcosis with dizziness, weakness, initiability, concentra iction of visual field, paraesthesias of the extremities, weight loss	ation and/or memory loss, tremor		characterised by headache and dizziness, increased reaction time, faligue and loss of co-ordination	
Chronic	changes in the liver and kidney. Chronic exposure by petroleu	um workers, to the lighter hydrocarbons, has been associated with	h visual disturbances, damage to		Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemonthaging, pulmonary oedema, progr serious consequences may result.	ressing to chemical pneumor
	the central nervous system, peripheral neuropathies (includin toxicities (including hypoplasia possibly due to benzene) and	ing numbriess and paraesthesias), psychological and neurophysic hepatic and renal involvement. Chronic dermal exposure to petrol	ological deficits, bone marrow		Signs and symptoms of chemical (aspiration) pneumonitis may include coughing, gasping, choking, burning of the mouth, diffi coloured skin (cyanosis).	fcult breathing, and bluish
	defatting which produces localised dermatoses. Surface cra-	cking and erosion may also increase susceptibility to infection by	microorganisms. One		Accidental ingestion of the material may be damaging to the health of the individual.	
	epidemiological study of petroleum refinery workers has rep- indicating an association between routine workplace exposur	orted elevations in standard mortality ratios for skin cancer along re to petroleum or one of its constituents and skin cancer, particula	with a dose-response relationship arly melanoma. Other studies have		Large doses of lithium ion have caused dizziness and prostration and can cause kidney damage if sodium intake is limited. Der dermatological effects and thyroid disturbances have been reported. Central nervous system effects that include slurred speec	hydration, weight-loss,
	been unable to confirm this finding.				Impaired concentration, initiability, lethargy, confusion, disorientation, drowsiness, anxiety, spasticity, delirium, stupor, ataxia (lo	oss of muscle coordination).
	Essential oils and isolates derived from the Pinacea family, in lowest practicable level, for instance by adding antioxidants a	ncluding Pinus and Abies genera, should only be used when the le at the time of production. Such products should have a peroxide va	alue of less than 10 millimoles		sedation, fine and gross fremor, giddiness, twitching and convulsions may occur. Diarrhoea, vomiting and neuromuscular effect contraction and relaxation of muscles) and hyperactive reflexes may occur as a result of repeated exposure to lithium.	icts such as tremor, clonus (r
	peroxide per liter. Based on the published literature mentioni 11,1053(1973); 16,843(1978); 16,853(1978).	ing sensitising properties when containing peroxides (Food and C	Chemical Toxicology		Acute severe overexposure may affect the kidneys, resulting in renal dysfunction, albuminuta, oliguria and degenerative chang	ges. Cardiovascular effects m
	In the presence of air, a number of common flavour and frag	rance chemicals can form peroxides surprisingly fast. Antioxidants	s can in most cases minimise the		also result in cardiac anthythmias and hypotension. The primary target organ for lithium toxicity is the central nervous system. Lithium is therefore used therapeutically on membrai	ne transport proteins in the
	oxidation.				central nervous system when treating manic-depression. Lithium is moderately toxic with lethal dose of LICI in rats of 526-840 r	mg/kg body weight. After chi
	Fragrance terpenes are generally easily exidised in air. Non-	and the second sec	and the second descent and the second se		exposure to 1 meq/L decreased brain weight was observed in male offspring. Chemically, lithium resembles sodium, but is mo result in fatel poisoning. In therapeutic doses, damages on the central nervous system and the kidneys have been reported.	are toxic: in humans 6 g LICI
		 condised impleme, inaroor and caryophysiene turned out to be very 	ry weak sensazers, nowever aner			
		are strong sensitizers. Of the patients tested 2.6% showed positive	we reaction to oxidised limonene,		Terpenes and their oxygen-containing counterparts, the terpenoids, produce a variety of physiological effects. Pine oil monoterp	penes, for example, produce
	1.3% to oxidised linatool, 1.1% to linatool hydroperoxide, 0.5% few positive patch tests, 2/3 of the patients reacting positive t	concase a immonene, innaioce and caryophysiene turned out to be ve- e are strong sensitizers. Of the patients tested 2.6% showed positiv % to oxidised caryophyliene, while testing with caryophyliene oxide to oxidised terpenes had fragrance related contact allergy and/or p	ve reaction to oxidised limonene, e and oxidised myrcene resulted in		Terpenes and their oxygen-containing counterparts, the terpenoids, produce a variety of physiological effects. Pine oil monoterp haemorthagic gastrits characterised by stomach pain and bleeding and vomiting. Systemic effects of pine oils include weatre depression, exclement, loss of balance, headche, with hypothermia and respiratory fature.	ess and central nervous
	1.3% to exidised linalool, 1.1% to linalool hydroperexide, 0.5%	e are strong sensitizers. Of the patients tested 2.6% showed positive to oxidised caryophyllene, while testing with caryophyllene oxide	ve reaction to oxidised limonene, e and oxidised myrcene resulted in	Ingestion	Terprese and their oxygen-containing counterparts, the terpenoids, produce a variety of physiological effects. Prixe oil monothery hearnorthagic particitis characterised by stomach phan and bleeding and varieting. Systemic effects of prine oils include weahin depression, exclement, loss of balance, headache, with hypothermia and nepshatory fature. Ingestion of peterdeum hydocatorians may produce initiation of the pharys, o seophagas, is domach and small thesins with ceder	ess and central nervous
	 3% to oxidised lineiool, 1.1% to linelool hydroperoxide, 0.55 few positive patch tests. 2/3 of the patients reacting positive t reactions to fragrances. As well as the hydroperoxides produced by linatol, linonene 	are strong sensitizers. Of the patients tested 2.6% showed positi & to oxidised caryophyllene, while testing with caryophyllene oxide to oxidised terpenes had thagrance related contact allergy and/or and delta-3-carene other oxidation and resinification effects progr	ve reaction to oxidated limonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major	Ingestion	Tepnere and their oxygen containing counterparts, the tepnoids, produce a variety of physicological effects. Pre el inconterparts here and their oxygen containing counterparts in the definition of the second section of t	ess and central nervous ma and mucosal ulceration nd vomiting, weakness or oduce arrhythmias, ventricul
	1.3% to oxidised limited, 1.1% to inside thydroperoxide, 0.5% few positive patch leasts. 2/3 of the patients reacting positive t reactions to fingrances. As well as the hydroperoxides produced by limited, limonene changes in essential of quality over time. Autoxidation of the with compounds that patients are actually exposed to and no	are strong sensitizers. Of the patients tested 2.0% strowed posith to oxidised orapythene, while testing with cargoryphilten oxide to oxidised teppenes had fragrance related contact allergy and/or and detta-3-carene other oxidation and resimification effects prog- grance teppenes contributes greatly to fragrance allergy, which a to not with the indeviders oranghat explored in commercial formula	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting	Ingestion	Teprese and their organs containing counterparts, the tepresids, produce a variety of physicologial effects. Pre el innovater hearnormatica guartita charadenised by totanch pain and tedreing and voriting, "Dystemic effect of pre els incubave depresion, exclement, bass of balance, headache, with hypothermia and respitadry faiture. Ingelston is photoentom produce shiftiand of the phorps, as expeription, storated and small iterative with code escentral produces and the photoentom produce shiftiand of the phorps, as experiptions, storated and an and integrine with code escentral and an and a storage of the phorps. The phorps and the phorps are storaged escentral and an and a storage of the abdoment, unconscitances and considers. Myocardial intry may pr foculates and a tablew respiration, assetting of the abdoment, unconscitances and considers. Myocardial intry may pr foculates and a tablew respiration. The storage. Certain revous system depression may data court. Light counter hypotherability and produces and tablew respiration. The storage of the abdoment and the storage of the storage o	ess and central nervous ma and mucosel ulceration nd vomiling, weakness or oduce arrhythmias, ventricula is produce a warm, sharp,
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Glaze Maximum Mold Release Wax (23-135A) distillates, petroleum, light,	1.3% to existend inated, 1.1% to instead hydrogenetide, 0.59 free yooth to paid-tests, 2.0 of the paident reacting paidwer reactions to finguraces. As well as the hydrogenetides produced by instel, limonet changes in essential of gathy overtime. Audiotation of fin whit compands that patients are activately expressed to and/or Chronic oliver if instellion exposures may result in nervous in Toxicorry Not Available ToXicory Dermal (rabbi) LD50. >2000 mg/kg ^[1] . Oral (rab.) LD50. >5000 mg/kg ^[1] .	are strong sensitizers. Of the patient's tested 2.6% showed poths to colded compositives, while leading while nonsport here could to colded by the patients and the patient of the control of testing and/or and deta-b-cueren other coldation and resinficiation effects prog grance tespense constraints as grantly to the grance allergy, which a day with the hygodietics originally applied in commercial formula yields in patient and we read blood changes. (PATTYS) IRPRIVATION IRPRIVATION Not Available	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting	Ingestion	Teperse and their oxygen continents (contensitie, the tepersoits, protoce a variety of physicologial effects. Pre el innovatery depression, exclement, loss of balance, headeche, viel hypothermia and respiratory fature. Ingelson of physicologia and produce tettial on of the physics, escoptiany, storache and small Hestine with cedel escalary symptoms induces to balance, headeche, viel hypothermia and respiratory fature. Ingelson of physicologia and produce etitialian of the physics, escoptiany, storache and south and start escalary symptoms induces to balance, headeche, viel headeche, use and start integration of the physics, escoptiany, storache and south escalary induces and the physicologia and the physics, escoptiany and the physics, escoptiany and the south escalary induces and the physicologia and the escalary and the physics, escoptiany and the south escoptian induces and the south and the buck and may an estimate an induce south and specific and the south escoptian induces and the south and the buck and may an estimate and the south and degred to the transpiratory escoptian and the induces and the south and the buck and may an estimate and the outcain and degred to the transpiratory and the south escoptian and increases satisfant descentions, buck and may an estimate and tencouraging outcain buckdhargh. The physical is entiphysical os is and a danger ozu in high concentrations. Typicial effects begin with a burning belang, bulk completely is entiphysical os balances, investory and you causes, wonting and diamota. Occession thation of completely is entiphysical models and the loss of the outcain and any outcain and and dealeres. Coccession thation on physical is entiphysical escalar and the loss of the outcain and and outcain and and dealeres. A coccession thation on physical is entiphysical escalar and the loss of the outcain and and dealeres. The outcain and patter induces and physical is entiphysical escalar and the loss is especified of the outcain and patter physical is entiphysical escalar and the lo	ess and central nervous in and microsoft under dimini- coloming, overheads and obcide entrythmiss, ventricular is produce a varies, sentricular pagaging and a chemical values a feeing of warmh an weed by sativation. In the ather down the guilt. He effect if the uninary tract and anness and shallow respection all to excettere fault constatis excetton takes place through at cannot be induced at safe than may be harmani if and may be harmani if
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Olize Musimum Hold Release Wax (2)-135A) distillates, petroleum, light, hydrobrates petroleum distillates HPP paraffm and hydrocarbon waxes, oxidised, Biblum	1.3% to existend inaided, 1.1% to invite of hydrogeneoide, 0.59 free postby a place insta. 20 of the painter reacting positive 1 reactions to finguraces. 2. As well as the hydrogeneoides publication of fin with compound the platents are activately represent an one Chronic solver if inaiston exposures may result in nervous at TOXICITY Net Available TOXICITY Dermail (rabbit) LD60: >2000 mg/kg ^[1] Oral (rdt) LD50: >5600 mg/kg ^[1] Oral (rdt) LD50: >16800 mg/kg ^[1]	are strong sensitienze. Of the palent's tested 2.0% showed poetfol to coldeed comprishers with leading with comparisher an output of and deta-3-centre other oxidation and resinficiation effects programme and and deta-3-centre other oxidation and resinficiation effects programme allergy, with 7 and deta-3-centre other oxidation and resinficiation effects programme allergy, with 7 and only with the ngeodenics organized symptome allergy, with 7 INFRITATION Net Available INFRITATION INFRITATION INFRITATION INFRITATION INFRITATION INFRITATION INFRITATION INFRITATION Net Available	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting		The particular or adjust continuing counterparts, the terperoids, produce a variety of physicological effects. Preve dimensional parametry of particular characteristics is the sense of th	es and embin nervous en and motional identifies in ording, valentes or ording, valentes or the ording of valentes or produce a valent, stepson produce a valent, stepson produces a feeling of valenth an weed by advanced in the effect advanced and the stepson advanced and the stepson advanced and the stepson or advanced produces advanced produces advanced produces the sponge layer of the skin the sponge layer of the skin
Gize Musimum Hold Release Wax (23-135A) distillates, petroleum, light, nydrotreated petroleum distillates HPP paraffm and hydrocarbon waxes, osidised, Elbium safis	1.3% to existed intelof, 1.1% to inside it hydrogeneide, 0.5 few poethy advised inside, 2.0 of the pactite reaction patient reactions to fingurances. As well as the hydrogeneides produced by lineid, linearene changes in essential of qatify overtine. Autodiation of fin with companies that patients are advisely expressed to and on CFront calver it initiation expanses may result in revices a TOXICITY Dermal (rabbit) LDS0: -2000 mg/kg ^[1] Oral ord; LDS0: -5000 mg/kg ^[1] Oral ord; LDS0: -5000 mg/kg ^[1] Oral ord; LDS0: -1100 mg/kg ^[1]	are strong sensitizers. Of the patient's tested 2.0% showed potential is coadiaed carpytelines with leading within comparishipm and business of the coadiaed carpyteline model on coadiaed carpytelines within the comparishipm and business of the coadiaed and th	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting		Teperate and their oxygen continuing counterparts, the teperates, protoce a variety of physicogical effects. Pre el innovatery depression, exclement, bass of balance, headache, with hydrhermin and respitadry fature. Ingestion of proteins in the source of the physicola, settillation of the physicola, settillation, and interfare with code enders of the source of the source of the source of the source of the physicola, settillation of the source	es and embin nervous en and motional identifies in ording, valentes or ording, valentes or the ording of valentes or produce a valent, stepson produce a valent, stepson produces a feeling of valenth an weed by advanced in the effect advanced and the stepson advanced and the stepson advanced and the stepson or advanced produces advanced produces advanced produces the sponge layer of the skin the sponge layer of the skin
Olize Musimum Nold Release Vias (23-135A) distillates, petroleum, light; petroleum distillates HPP petroleum distillates HPP paraffm and hydrocarbon waxes, oxidised, BHum beta-pinene	1.3% to existent inteid, 1.1% to inside the topological determines and the procession of the sector sector points of the sector sector points of the sector sector points of the sector secto	are strong sensitizers. Of the palents tested 2.0% showed position is coalised carporphilem, while leading while comparisher an output or coalised carporphilem, while leading while pale and deles-3-carere dher existed or offset and part and genes bepresses combulates greatly to forger ance anlergy, which and geness the sensitivity of the sensitivity of the transport of the sensitivity of the sensitivity of the transport of the sensitivity of the intervention of the sensitivity of the intervention of intervention of interve	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting		Teperse and their oxygen continuing counterparts, the tepersoits, protoce a variety of physicopid effects. Pre elimonobieg hearmorhique gates the characterised by some har and and before gate variety. Systemic effects of pre elimonobieg depression exclement, base to basine, headeche, with hydrhermin and respitedry fature. Ingelstoin of photocentrom systems in produce initiation of the physics, esceptional and an all respitedry that depression exclement, base to basine, headeche, with hydrhermin and respitedry fature. Ingelstoin of photocentrom systems in availing of the abidiome, uscronicourses and considers. Myocardial injury may pro- taziones, sitos and atalow respiration, availing of the abidiome, uscronicourses and considers. Myocardial injury may pro- paramorbia with a device of the abidiome in uscronicourses and considers. Myocardial injury may pro- paramorbia with photocentrom system in the abidiome in uscronicourses and considers. Myocardial injury may pro- paramorbia with photocentrom system in the abidiome in uscronicourses and considers. Myocardial injury may pro- base in ternshy the sessential ois exert a midinkare diffect of the mucus membranes of the mouth and digetile lead within in Stems in vanching y sessential ois consider and indicate and may cause heating being the barring heating. Full signature in the sessentian is even faultance, missing the gatric spintete and encoursing exclusion belofting. Full signature in the provide sessentian is excluse mucus and spinteney or one, and there and mand and digetile is carminate (releve finaltance), missing the gatric spintete and encoursing exclusion belofting. Full signature in the provide sessentian in the sessentian and spinteney of one, and there is a carminate is provide comparamole, the sessentian information and interes compation and ordenes in the langs, their and spintenes considered and the sessentian distribution and interes compation and ordenes in the langs, their and spintenes to considered and the sessentian and encourse barries to any	es and enthel heroods and an another the second of our any favoration devices of the our any favoration devices of the our any favoration devices of the out any favoration of the produce any favoration of the produce a favoration of the produce a favoration of the produce a favoration of the produce a favoration of the second of the out any favoration of the out any favoration of the favoration of the out any favoration of the out any favoration of the produced of the out any favoration of the out any favoration of the second of the out any favoration of the out any favoration of the second of the second of the second of the second of the second of the second of the second of the second in harmst effects. Examine the second of the second of the second of the second of the second of the second of the second of the
Okze Modramum Hold Release Wax (23-135A) distillates, petroleum, light, hydrotinated petroleum distillates HPP paraffin and hydrocarbon waxes, oxidised, Bhium safis	1.3% to existed inteid, 1.1% to inside the powerske, 0.5% free yookho pakteries, 2.0 of the pointer reacting points interacting points in the point is starting points in the point is active the point is reacting points in the point is active point in the point is active to the point active to the point is active to the point is active to the	are strong sensitizers. Of the patient's tested 2.0% showed potential is coadiaed carpythem, with leafing with comparythem could be coadiaed carpythem, with leafing with the comparythem could and deta-3-centre other oxidation and resinfication effects programme and sets and the result of the set of both detained for the leage statement of the result of the set of both detained in the patient's crystally applied in commend to much any within the gradeed set of both detained in the result of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the set of both detained in the leage statement of the leage statement of the set of both detained in the leage statement of	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting		Teperate and their oxygen continuing counterparts, the teperates, prototes a variety of physicogical effects. Pre elimonology anemorphic particle characterised by storand, part and telesing and vorting. Systemic effect of pre elimonology depression, exclament, bass of balance, headeche, with hydramenta and respitatory fallow. The storage	es and environmental inervolus main and mucional ulcenders of the second second second second produces a second second second produces a second secon
Oize Mosimum Hold Release VVax (23-135A) distillates, petroleum, light, nydrotrasted petroleum distillates HPP paraffm and hydrocarbon waxos, oxidised, BHum beta-pinene	1.3% to existent inteid, 1.1% to inside the topological determines and the procession of the sector sector points of the sector sector points of the sector sector points of the sector secto	are strong sensitizers. Of the palents tested 2.0% showed position is coalised carporphilem, while leading while comparisher an output or coalised carporphilem, while leading while pale and deles-3-carere dher existed or offset and part and genes bepresses combulates greatly to forger ance anlergy, which and geness the sensitivity of the sensitivity of the transport of the sensitivity of the sensitivity of the transport of the sensitivity of the intervention of the sensitivity of the intervention of intervention of interve	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting		Terpense and their oxygen continuing counterparts, the terpensits, prototes a variety of physicogical effects. Pre el innovatege depression exclement, base tobarios, headache, with hydrhennia and respitatory fature. Insertion of physicolar terminary produces influion of the physics, escapting, stomath and an editer with read- depression exclement, base tobarios, headache, with hydrhennia and respitatory fature. Insertion of physicolar terminary produces influion of the physics, escapting, stomath and an editer with read- depression exclement, base tobarios, headache, with hydrhennia and respitatory fature. The physical and the physical escaption of the advance, unconclusness and considers. Mocardial ingray may pro- tractioness, stow and thatow respiration, awelling of the abdomer, unconclusness and considers. Mocardial ingray may pro- tractioness, stow and thatow respiration, awelling of the abdomer, unconclusness and considers. Mocardial ingray may pro- tractioness, stow and thatow respiration, awelling of the abdomer, unconclusness and considers. Mocardial ingray may pro- tractioness standadom. There also mouth, may reserved to accur an inclinizar direct on the muscuum membranes of the mouth and digeslive lised which in fusion standard. The respiration has been respirated protein the physical escapting the standard standard standard been and the standard standard been and the standard been and the standard been and the standard standard been and the standard been and been and the standard been and the standard been and the standard been and been and the standard been and be	es and embed heroous must an exceed advancement of conflig, waterback or dool out the second of the second produce anytytemis second of the produce anytytemis second of the scales a feeling of warmth at waterback of the second of the scales a feeling of warmth at waterback of the second of the scales and scales of the dool of the second of the scales and scales and scales of the scales place through a difficult of the scales place through and the scales place through and the scales place through a difficult of the scales of the scale the scales and the scales of the scales place through the scales of the scales of the scales of the scale scales of the scales of the scale scales of the scales of the scale scales of the scales of the scales of the scales of the scales of the scales of the scale scales of the scales of the scales of the scale scales of the scales of the scales of the scale scales of the scales of the scales of the scale scales of the scales of the scales of the scale scales of the scales of the scales of the scales of the scale scales of the scale scale scales of the scale scales of the scale scales of the scales of the scales of the scale scales of the scale scale scale scale scale scales of the scale scales of the scales of the scale scal
Olize Musimum Hold Release Vias (23-135A) distillates, petroleuro, light petroleuro distillates HPP paraffin and hydrocarbon vearos, ostdised, BHumo beta-phrono alpha-pineno	1.3% to existed inteid, 1.1% to inside the powerske, 0.5% free yookho pakteries, 2.0 of the pointer reacting points interacting points in the point is starting points in the point is active the point is reacting points in the point is active point in the point is active to the point active to the point is active to the point is active to the	are strong sensitizers. Of the patient's tested 2.0% showed potential is coadiaed carpyteline, while leading while negatyphiler and out to coadiaed carpyteline, while leading while of and deta-3-centre other oxidation and resinfication effects programment and deta-3-centre other oxidation and resinfication effects programment and while the regedent's crystally applied in commend terms and while the regedent's crystally applied in commend terms and while the regedent's crystally applied in commend terms and the regedent's crystally applied in commend terms in the regedent's crystally applied in commend terms and the regedent's crystally applied in commend terms in the regedent's crystally applied in the regedent in the regedent's crystally applied in commend terms in terms in the regedent's crystally applied in commend terms in the regedent's crystally applied in the regedent in the regedent crystally applied in the regedent in th	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting		Tepares and their oxygen continuing counterparts, the teparests, protots, a variety of physicogical effects. Pre-elimonotogic appression, exclament, bass of basins, headeche, with hypothemia and respitatory fallow. Appression, exclament, bass of basins, headeche, with hypothemia and respitatory fallow. The second se	es and enthe herodas and an accessible services and downing, wathreas or downing, wathreas or podace and ythmas, wathread is podace and ythmas, wathread is podace and ythmas, wathread scales a feeling of warmth an weed by saturation in the wathread of the services of the divide down the gal, the effect that may be harmful if and excellent and concidate and be excellent and concidate and the place through the saturation of the second that and the place through the such information being the such information being the saturation of the special and solution the special and solution of the special that and official second solutions. Examine the special and solution and solution of the special and solution of the special and solutions in humber of and devices in a place in humber of and devices in a place in the special and solutions are special and and solution of the special and solutions are special in the special and solutions are special and and and solutions are special and and and solutions are special and
Oize Mosimum Hold Release Wax (23-1354) distillates, petroleum, light, hydroireated petroleum distillates HPP paraffin and hydrocarbon waxes, oxidised, tithum beta-pinene	1.3% to existed inteid, 1.1% to inside the dependencies, 0.5 free free potch packing states. 20 of the packing states reacting points in transition to finguraces. 20 of the packing states reacting points in transition to finguraces. 20 of the packing states in sector packing in sector 1.0 mol states and the packing states and the comparative states and the packing states and the p	are strong sensitizers. Of the patient's tested 2.0% showed potential is coadiand carporphilem, while leading while negativitien and addition of the comparishien and addition of the sensitivity of the control of the sensitivity of the sensi	ve reaction to oxidised illinonene, e and oxidised myrcene resulted in positive history for adverse ressively causes other fairly major mphasizes the need of fecting	Skin Contact	Terpense and their oxygen continuing counterparts, the terpensits, prototes a variety of physicogical effects. Pre el innovatege depression exclement, base tobarios, headache, with hydrhennia and respitatory fature. Insertion of physicolar terminary produces influion of the physics, escapting, stomath and an editer with read- depression exclement, base tobarios, headache, with hydrhennia and respitatory fature. Insertion of physicolar terminary produces influion of the physics, escapting, stomath and an editer with read- depression exclement, base tobarios, headache, with hydrhennia and respitatory fature. The physical and the physical escaption of the advance, unconclusness and considers. Mocardial ingray may pro- tractioness, stow and thatow respiration, awelling of the abdomer, unconclusness and considers. Mocardial ingray may pro- tractioness, stow and thatow respiration, awelling of the abdomer, unconclusness and considers. Mocardial ingray may pro- tractioness, stow and thatow respiration, awelling of the abdomer, unconclusness and considers. Mocardial ingray may pro- tractioness standadom. There also mouth, may reserved to accur an inclinizar direct on the muscuum membranes of the mouth and digeslive lised which in fusion standard. The respiration has been respirated protein the physical escapting the standard standard standard been and the standard standard been and the standard been and the standard been and the standard standard been and the standard been and been and the standard been and the standard been and the standard been and been and the standard been and be	ess and central devices in an and maccal devices in down may be available or down may be available or poduce any phrases, werklaus, produce any phrases, werklaus, produce any phrases, and the down the go

nwatch: 4804-97		Page 7 of:	21	Issue Date: 03	Chernwatch: 4804-97	Page 6 of 21		Issue Date: 03/0
on No: 11.1.1.1	Meguiar's M08 - I	lirror Glaze Maximu	um Mold Release Wax (:	23-135A) Print Date: 23	Version No: 11.1.1.1	Meguiar's M08 - Mirror Glaze Maximum Mold Release V	Nax (23-135A)	Print Date: 230
	 Eve wash unit. 				CEL TWA: 300 ppm, 900 mplm3			
Thermal hazards	Not Available				(CEL = Chernwatch Exposure Li			
					for petroleum distillates:			
spiratory protection					CEL TWA: 500 ppm, 2000 mg/m (CEL = Charmvatch Exposure Li			
	aty. (ASINZS 1716 & 1715, EN 143:2				NOTE M: The classification as a	a carcinogen need not apply if it can be shown that the substance contains less than 0.005% w/w	/benzo[a]pyrene (EINECS No 200-028-	5). This note applies or
Where the concentration of gas/pa	articulates in the breathing zone, app oth face-piece and Class of filter; the	roaches or exceeds the "Expo	osure Standard" (or ES), respiratory	protection is required.	certain complex oil-derived subs	tances in Annex IV. of harmonised classification and labelling hazardous substances. Table 3.1, An	per M. Reculation (EC) No. 1222	1/2008 (CLP) - un t
					the latest ATP			
Required Minimum Protection		Half-Face Respirator	Full-Face Respirator	Powered Air Respirator	NOTE P: The classification as a substance is classified as a carr.	a carcinogen need not apply if it can be shown that the substance contains less than 0.01% w/w b cinogen. This note applies only to certain complex cil-derived substances in Annex VI.	enzene (EINECS No 200-753-7). Note E	E shall also apply whe
up to 10 x ES		A-AUS P2		A-PAPR-AUS / Class 1 P2	European Union (EU) List o	of harmonised classification and labelling hazardous substances, Table 3.1, An	nex VI, Regulation (EC) No 1272	1/2008 (CLP) - up 1
up to 50 x ES			A-AUS / Class 1 P2	•	the latest ATP			
up to 100 x ES			A-2 P2	A-PAPR-2 P2 ^	Exposure controls			
- Full-face					Exposure controls			
(All classes) = Organic vapours	s, B AUS or B1 = Acid gasses, B2 =	Acid gas or hydrogen cyanide	e(HCN), B3 = Acid gas or hydrogen	cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultu		Engineering controls are used to remove a hazard or place a barrier between the worker an effective in protecting workers and will typically be independent of worker interactions to prov		g controls can be high
hemicals, K = Ammonia(NH3), H	Hg = Mercury, NO = Oxides of nitrog	en, MB = Methyl bromide, AX	= Low boiling point organic compound	nds(below 65 degC)		The basic types of engineering controls are:		
				vearer must be warned to leave the contaminated area		Process controls which involve changing the way a job activity or process is done to reduce to	the risk	
nmediately on detecting any odo	urs through the respirator. The odour limitations, only restricted use of cart	may indicate that the mask is r	not functioning property, that the vap	our concentration is too high, or that the mask is not		Enclosure and/or isolation of emission source which keeps a selected hazard "physically" aw "removes" air in the work environment. Ventilation can remove or cliute an air contaminant if e	designed property. The design of a ventil	tratagically adds and lation system must ma
openy litted. Because of these i	initiations, only restricted use of cart	idge respirators is considered	appropriate.			the particular process and chemical or contaminant in use.		
		50				Employers may need to use multiple types of controls to prevent employee overexposure.		
CTION 9 PHYSICAL AN	ND CHEMICAL PROPERTI	E9				Local exhaust ventilation usually required. If risk of overexposure exists, wear approved resp		dequate protection.
ormation on basic phys	ical and chemical properti					Supplied-air type respirator may be required in special circumstances. Correct fit is essential An approved self-contained breathing apparatus (SCBA) may be required in some situations		
						Provide adequate ventilation in warehouse or closed storage area. Air contaminants generat	ted in the workplace possess varying 'es	scape" velocities which
Appearance	Gold paste with a pleasant odour;	not misciple with water.				turn, determine the "capture velocities" of fresh circulating air required to effectively remove t	the contaminant.	8
Physical state	Non Slump Paste		Relative density (Water = 1)	0.86		Type of Contaminant:		Air Speed:
Odour	Not Available		Partition coefficient n-octanol / water	Not Available		solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50
Odour threshold	Not Available		Auto-ignition temperature	Not Available	Appropriate engineering	acrosols, fumes from pouring operations, intermittent container filling, low speed conveyer acid fumes, pickling (released at low velocity into zone of active generation)	transfere, welding, spray clrift, plating	0.5-1 m/s (100-2)
pH (as supplied)	Not Applicable		Decomposition temperature	Not Available	controls	direct spray, spray painting in shallow booths, druin filling, conveyer loading, crusher dusts zone of rapid air motion)	s, gas discharge (active generation into	
Melting point / freezing point (°C)	Not Available		Viscosity (cSt)	100 cps		grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high	initial velocity into zone of very high rapi	
Initial boiling point and boiling range (°C)	Not Available		Molecular weight (g/mol)	Not Applicable		air motion). Within each range the appropriate value depends on:		amin.)
Flash point (°C)	66 (PMCC)		Taste	Not Available		Lower end of the range	Upper end of the range	
Evaporation rate	Not Available		Explosive properties	Not Available		1: Room air currents minimal or favourable to capture	1: Disturbing room air ourrents	
Flammability	Combustible.		Oxidising properties	Not Available		2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
			Surface Tension (dyn/cm or					
Upper Explosive Limit (%)	Not Available		Surface Tension (dyn/cm or mN/m)	Not Available		3: Intermittent, low production.	3: High production, heavy use	
Lower Explosive Limit (%)	Not Available		Volatile Component (%vol)	VOC = 65.34%		4: Large hood or large air mass in motion	4: Small hood-local control only	iy .
Vapour pressure (kPa)	Not Available		Gas group	NotAvailable		Simple theory shows that air velocity falls rapidly with distance away from the opening of a sin	mple extraction pipe. Velocity generally d	decreases with the squ
Solubility in water (g/L)	Immiscible		pH as a solution (1%)	Not Applicable		of distance from the extraction point (in simple cases). Therefore the air speed at the extracti distance from the contaminating source. The air velocity at the extraction fan, for example, sh	on point should be adjusted, accordingly	y, after reference to
Vapour density (Air = 1)			VOC g/L	Not Available		solvents generated in a tank 2 meters distant from the extraction point. Other mechanical con	nsiderations, producing performance def	ficits within the extract
vapour density (Air = 1)	Two Available		VOC GL	NUTAVAILABLE		apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or mo	are when extraction systems are installed	d or used.
CTION 10 STABILITY A	AND REACTIVITY							
Reactivity	See section 7				Personal protection			
reacting	Silcone fluids are stable under	r name of stars as applitudes						
	 Hazardous polymerisation will 							
	► At temperatures > 150 C, slic	ones can slowly react with the	oxygen in air.			 Safety glasses with side shields. 		
Chemical stability	 When heated > 300 C, silicon Unstable in the presence of in 	es can slowly depolymerise to	volatile siloxanes whether or not air	s present.		 Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concern 	teste initaate. A unitaa malau daar moont	describing the complete
	 Product is considered stable. 				Eye and face protection	lenses or restrictions on use, should be created for each workplace or task. This should	I include a review of lens absorption and a	adsorption for the cla
	 Hazardous polymerisation will 	I not occur.			Eye and face protection	chemicals in use and an account of injury experience. Medical and first-aid personnel sh	sould be trained in their removal and suit	table equipment shoul
Possibility of hazardous reactions	See section 7					readly available. In the event of ofhernical exposure, begin eye irrigation immediately and at the first signs of eye redness or irritation - lens should be removed in a clean environm Current Intelligence Bulletin 59, LAS/NZ5 1335 or national equivalent]	remove contact lens as soon as practical sent only after workers have washed han	uble. Lens should be in nds thoroughly. [CDC
Conditions to avoid	See section 7				Skin protection			
Incompatible materials	See section 7					Wear chemical protective gloves, e.g. PVC.		
Hazardous decomposition	See section 5					Wear safety footwear or safety gumboots, e.g. Rubber		
products	dee sécion o				Hands/feet protection	NOTE:	terr other more law states at 1.	
CTION 11 TOXICOLOG	BICAL INFORMATION					 The material may produce skin sensitisation in predisposed individuals. Care must be tail all possible skin contact: Contaminated leather terms, such as shoes, betts and watch-bands should be removed a 		meceve equipment, to
					Body protection	 Contaminated leatner removed a See Other protection below 	na anno you.	
ormation on toxicologic	cal effects				cody protection	Overalls.		
ormation on toxicologic								
ormation on toxicologic	Inhalation of vapours may cause d	rowsiness and dizziness. This	may be accompanied by narcosis, r	educed alertness, loss of reflexes, lack of coordination a		 P.V.C. apron. 		
Inhaled	vertigo.			educed alertness, loss of reflexes, lack of coordination a iratory system, in a significant number of individuals,	Other protection	PVC.apron. Barrier cream. Skin cleansing cream.		

rsion No: 11.1.1.1	The second second second second	a second and the second second second	Carlos Constantin			Print Date: 23/08/2016	Version No: 11.1.1.1	Maguiaria MOR, Misros Clara Mavimum Mald Balagas (May (22, 1256))
	Meguiar's M08 - Mirror G	laze Maximum Mold R	elease Wax	(23-135A)		FIN DOLE. ZOORZOTO		Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A) Print Date: 2308
	Observe manufacture's storage and han	ding recommendations contained	within this SDS.				Fire incompatibility	Avoid contamination with existing agents i.e. nitrates, existing acids, chiorine bleaches, pool chiorine etc. as ignition may result
	 Atmosphere should be regularly checked 	against established exposure stan	dards to ensure sa	fe working conditions	are maintained.		Advice for firefighters	
Other Information	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials a Protect containers against physical dams Observe manufacturer's storage and han	ge and check regularly for leaks.	within this SDS				Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear breaking apparture juta protective gives. Prevent, by any means anallable, anglang from antering drains or water courses. Use water delivered as a fire spory to control fire and cool adjacent area. Do NOT encome chardmane supported to be halt.
onditions for safe storag	e, including any incompatibilities							Cool free exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fine.
Suitable container	Metal can or drum Packaging as recommended by manufad							Equipment should be thoroughly decontaminated after use.
Suitable container	 Packaging as recommended by manuada Check all containers are clearly labelled a 	and free from leaks.						Combustible. Slight fire hazard when exposed to heat or flame.
Storage incompatibility	Traces of berzene, a cardinogen, may form v polymer. Boiling water may soften and weeker HAZARD: Athough anti-oxidants may be present, it Rags wel / soaked with unsaturated hydr where oil soaked materials are folde, bu b) Oily cleaning rags should be collected re	n material. n the original formulation, these m <i>a</i> ocarbons / drytng oils may auto-oxi nched, compressed, or piled loget	y deplete over time dise; generate he her - this allows the	as they come into o at and, in-time, smou heat to accumulate	ontact with air. Ider and ignite. This or even accelerate	s is especially the case the readion	Fire/Explosion Hazard	Healing may cause separation or decomposition leading is violent nuture of containers. Horn combatism may well took tames of cathon monoolds (CO). May emil and smokes Mass contained and set cathon monoolds (CO). May emil and smokes may be explore. Combustion products include: cathon monoolds (CO) cathon dioxide (CO) silicon dioxide (SIO2) other pyrolysis products typical of buming organic materials Combustion products include: cathon monoolds (CO) cathon dioxide (CO) silicon dioxide (SIO2) other pyrolysis products typical of buming organic materials Combustion products include: cathon monoolds (CO) cathon dioxide (CO) silicon dioxide (SIO2) other pyrolysis products typical of buming organic materials Combustion well and well half paid on a salam explosion with wide scattering of hot of and possible severe bums. Foaming may cause overflow of containers and may result in possible file.
	solvents in suitably closed containers.						SECTION 6 ACCIDENTAL	RELEASE MEASURES
	 Avoid reaction with exidising agents 						Personal precautions, prot	tective equipment and emergency procedures
ECTION 8 EXPOSURE O	CONTROLS / PERSONAL PROTEC	TION					See section 8	
ontrol parameters occupational exposure i INGREDIENT DATA	IMITS (OEL)						Environmental precaution See section 12	
Source	Ingredient	Material name	TWA	STEL	Peak	Notes	Methods and material for o	containment and cleaning up
Australia Exposure Standards	distillates, petroleum, light, hydrotreated	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available		Clean up all spills immediately.
Australia Exposure Standards	petroleum distillates HFP paraffin wax	Oil mist, refined mineral Paraffin wax (fume)	5 mg/m3	Not Available	Nol Available	Not Available	Minor Spills	Avoid contact with skin and eyes. Wear impervious gloves and safety goggles.
Australia Exposure Standards	paramn wax	Paramin wax (runte)	2 mg/m3	NotAvailable	NOT AVAILABLE	Not Available		Trowel up/scrape up. Place spilled material in clean, dry, sealed container.
EMERGENCY LIMITS	Material name			TEEL-1	TEEL-2	TEEL-3		 Flush spill area with water.
ngreaient	Naphtha, hydrotreated heavy; (Isopar L-rev 2)			171 ppm	171 ppm	570 ppm		Clear area of personnel and move upxind. Alert Fire Brigade and tell them location and nature of hazard.
petroleum distillates HFP	Solvent naphtha, petroleum, medium aliphatic	; (Mineral spirits, naphtha)		0.32 mg/m3	3.5 mg/m3	21 mg/m3		Wear breathing apparatus plus protective gioves. Prevent, by any means available, spillage from entering drains or water course.
alpha-pinene	Trimethytbicyclo(3.1.1)-2-hept-2-ene, 2,6.6-; (alpha-Pinene)		22 ppm	22 ppm	130 ppm		Stop leak if safe to do so.
polydimethylsiloxane	Dimethyl siloxane; (Dimethylpolysiloxane; Syth	nerm XLT; Syltherm 800; Silicone 3	60)	1.5 mg/m3	16 mg/m3	990 mg/m3		Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling.
paraffin wax	Paraffin, n-			4.9 mg/m3	4.9 mg/m3	29 mg/m3	Major Spills	Neutralse/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal.
Ingredient	Original IDLH		Revised IDLH					Wash area and prevent runoff into drains.
distillates, petroleum, light,	Not Available		Not Available					 After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.
hydrotreated	Not Available		Not Available					Environmental hazard - contain spillage. CARE: Absorbent materials wetted with occluded oil must be moistened with water as they may auto-oxidize, become self heating and ignite.
petroleum distiliates HFP conditioners, trade secret	Not Available		Not Available					Some oils slowly oxidise when spread in a film and oil on cloths, mops, absorbents may autoxidise and generate heat, smoulder, ignite and burn, in the
paraffin and hydrocarbon								workplace oily rags should be collected and immersed in water.
waxes, oxidised, lithium salts	Not Available		Not Available				Personal Protective Equipment ac	dvice is contained in Section 8 of the SDS.
beta-pinene	Not Available		Not Available				SECTION 7 HANDLING A	ND STORAGE
alpha-pinene	Not Available		Not Available				SECTION 7 HANDLING A	
polydimethylsiloxane paraffin wax	Not Available Not Available		Not Available				Precautions for safe hand	ling
other terpenes	Not Available		Not Available					Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
symptoms. Crystalfine sitica erba For parafit weeks and hydrocub TLV TWA': 2 mg/m 3 Animatic exposed by inhelation to Odour threshold: 0.25 ppm. The TLV-TWA is protective again A STEL is recommended to preve to components, the conversion of value because of the widely differ Odour Garley Factor (OSF) OSF=0.042 (ganoline) for keroseme CAS 9008-20-6 TLV TWA': 100 mg/m 3a stolatil previous for keroseme CAS 9008-20-6 TLV TWA': 100 mg/m 3a stolatil previous for keroseme CAS 9008-20-6 TLV TWA': 100 mg/m 3a stolatil previous for keroseme CAS 9008-20-6 TLV TWA': 100 mg/m 3a stolatil previous for keroseme CAS 9008-20-6 for keroseme for the store of	peric potential even in the absence of crystalline cose the severity of the preumocontains. In worke a complex combination of hydrocarbon 10 mg/h3 titanium dioxide show no significant fit dioxidar and upper respiratory trad initiation and nr muccus membrane and occur initiation and re mo to mg/h3 tagotomate. Sweder main tradition and ng compositions and resultant differences in tool rocarbon vapour SiAh A3	s oblained from petroleum fractions brosis, possibly reversible tissue re lis recommended for bulk handling revertion of acute depression of the most became type limits of 100 com	by solvent crystall action. The archite of gasoline based central nervous s	isation: ecture of lung air spa on calculations of h ystem. Because of the	ces remains intact. vdrocarbon conlent e vide variation in r	of gasoline vapour. molecular weights of	Safe handling	Electrostatic dicharge may be generated acting pumping – his may result. If fre. Ensure electric contrulut by bonding and grounding electrostatic discharge (<< I m/sec until fill pipe submerged to have its diameter; the or Tinker; Restrict line velocity auting pumping in order to avaid generation of electrostatic discharge (<< I m/sec until fill pipe submerged to have its diameter; the or Tinker; Avaid of potent limit; Avaid of potentiated area; Avaid of presential contract, buscharge invalide in the filling discharge invalide in the or Tinker; Avaid of potentiated area; Prevent concentration in hollows and sumps. Do NOT eleve methed area; Powert concentration in hollows and sumps. Noted of an eleventiated area; Noted of an
OEL TWA: 14 ppm, 100 mg/m3 [h REL TWA: 150 ppm [Shell]	IOSH, 1985]							Use good occupational work practice.

/ersion No: 11.1.1.1		Print Date: 23/08/2016	Version No: 11.1.1.1	1000 No. 100		Print Date: 23/08/2
	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)		Version No: 11.1.1	Meguiar's	M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	Print Date: 23/08/2
	If skin contact occurs:		H227	Combustible liquid		
	Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available).		H315	Causes skin irritation.		
	► Seek medical attention in event of initiation.		H317	May cause an allergic :	kin reaction	
	For thermal burns:		H336	May cause drowsiness		
	Decontaminate area around burn. Consider the use of cold packs and topical antibiotics.		H304	May be fatal if swallowe		
	For first-degree burns (affecting top layer of skin)		H304 H411	Toxic to aquatic life with		
	 Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. Use compresses if running water is not available. 		AUH065			
	Cover with sterile non-adhesive bandage or clean cloth.		AOH066	Repeated exposure ma	y cause skin dryness and cradding	
	 Do NOT apply butter or ointments; this may cause infection. Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. 		Precautionary statement(s) Prevention		
	For second-degree burns (affecting top two layers of skin)		P210	Keep away from heat/s	barks/open flames/hot surfaces No smoking.	
	Cool the burn by immerse in cold running water for 10-15 minutes. Use compresses if running water is not available.		P271	Use in a well-ventilated	area.	
	 Do NOT apply ice as this may lower body temperature and cause further damage. 		P280	Wear protective gloves	protective clothing/eye protection/face protection.	
Skin Contact	 Do NOT break bilisters or apply butter or ointments; this may cause infection. Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauge or tape. 		P261	Avoid breathing mist/va	pours/spray.	
	To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort):		P273	Avoid release to the env	ironment.	
	Laythe person flat. Elevate feet about 12 inches.		P272	Contaminated work clot	hing should not be allowed out of the workplace.	
	Elevate here above heart level, if possible.		-			
	 Cover the person with coat or blanket. 		Precautionary statement(s) Response		
	Seek medical assistance. For third-degree burns		P301+P310	IF SWALLOWED: Imm	ediately call a POISON CENTER or doctor/physician.	
	Seek Immediate medical or emergency assistance.		P331	Do NOT induce vomitin	g.	
	In the mean line: Protect burn area cover loosely with sterile, nonslick bandage or, for large areas, a sheet or other material that will not leave	e lint in wound.	P362	Take off contaminated of	lothing and wash before reuse.	
	Experiment Separate burned toes and fingers with dry sterile dressings.		P363	Wash contaminated clo	thing before reuse.	
	 Do not soak burn in water or apply ointments or butter; this may cause infection. To prevent shock see above. 		P370+P378	In case of fire: Use alco	hol resistant foam or normal protein foam for extinction.	
	For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway.		P302+P352	IF ON SKIN: Wash with	plenty of soap and water.	
	Have a person with a facial burn sit up. Check pulse and breathing to monitor for shock until emergency help anives.		P312	Call a POISON CENTE	R or doctor/physician if you feel unwell.	
	Concerption on a second region of the second s	10	P333+P313	If skin initation or rash	occurs: Get medical advice/attention.	
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area.		P391	Collect spillage.		
	Other measures are usually unnecessary. If swallowed do NOT induce vomiting.		P304+P340	IF INHALED: Remove	victim to fresh air and keep at rest in a position comfortable for breathing.	
Ingestion	Observe The patient careful/r New cycle factor to a period moving signs of being sitegy or with reduced awareness: i.e. becoming unconscious: One voter to inse out mouth, then provide liquid slowly and as much as casually can comfortably drink. Seek madical active. Novid giving milks or ots.		P405	Store in a well-ventilate Store locked up.	i place. Keep cool. d place. Keep container lightly closed.	
Indication of any immedia	Avoid giving alcohol. te medical attention and special treatment needed		Precautionary statement(a hann an an an ann an ann an ann an an an	
For acute or short term repeated	exposures to petroleum distillates or related hydrocarbons:					
 Primary threat to life, from page 	re petroleum distillate ingestion and/or inhalation, is respiratory failure.	and to be a set of the	Dee	Lispose or contents/co	ntainer in accordance with local regulations.	
poor arterial blood gases (pC	aluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, infercostal retraction, oblundation) and given oxygen. Patients 2 50 mm Hg) should be intubated. Fydricoration ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported: intravenous li		SECTION 3 COMPOSITI	ON / INFORMATION	ON INGREDIENTS	
be established in obviously s	implomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.		Substances			
 A chest x-ray should be taken Epinephrine (adrenatin) is no 	Immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax. I recommended for treatment of bronchospesm because of potential myocardial sensitisation to catecholamines. Inhaled cardiose	lective bronchodilators (e.g.	See section below for composition	on of Mixtures		
Alupent, Salbutamol) are the	preferred agents, with aminophyline a second choice.		- 11			
Lavage is indicated in patient	ts who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxico	yogy	Mixtures			
Any material aspirated during vor	nilling may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means sh	ould be used if it is considered	CAS No	%[weight]	Name	
difficult breathing, as adverse effe	ch contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the pa cts of aspiration into the lungs may be delayed up to 48 hours.	alera stibulo de monacied for	64742-47-8	10-30	distillates, petroleum, light, hydrotreated	
Clinical effects of lithium intoxicati	on appear to relate to duration of exposure as well as to level.		64742-48-9.	10-30	petroleum distillates HFP	
 Lithium produces a generalis Emesis (or lavage if the patie 	ed slowing of the electroencephalogram; the anion gap may increase in severe cases. ent is obtunded or convulsing) is indicated for ingestions exceeding 40 mg (Li)/Kg.		Not Available	<20	conditioners, trade secret	
Overdose may delay absorpt	ion; decontamination measures may be more effective several hours after cathartics.		68649-48-9	7-13	paraffin and hydrocarbon waxes, oxidised, lithium salts	
 Charcoal is not useful. No cl Haemodialysis significantiviti 	inical data are available to guide the administration of catharsis. ncreases ithium clearance; indications for haemodialysis include patients with serum levels above 4 meq/L.		19902-08-0	5-10	beta-pinene	
 There are no antidotes. 			80-56-8	5-10	alpha-pinene	
[Ellenhorn and Barceloux: Medica	al Toxicology]		63148-62-9	5-10	polydimethylsiloxane	
In acute poisonings by essential of	sits the stomach should be emptied by aspiration and lavage. Give a saline purgative such as sodium sulfate (30 g in 250 ml water)) unless catharsis is already	8002-74-2	6-10	paraffin wax	
present. Demulcent drinks may a	iso be given. Large volumes of fluid should be given provided renal function is adequate. [MARTINDALE: The Extra Pharmacopoel	a, 28th Ed.]	Not Available	1-5	other terpenes	
SECTION 5 FIREFIGHTIN	IG MEASURES		SECTION 4 FIRST AID N	EASURES		
Extinguishing media			Description of first aid m	easures		
 Water spray or fog. 				If this product comes in		
 Alcohol stable foam. Dry chemical powder. Carbon dioxide. 			Eye Contact	Wash out immedia Ensure complete in Seek medical atter	ely with fresh running water. Igdidon of the eye by keeping walds apart and away from eye and moving the eyelids by occasionally it forn whout delay: if pain persists or recurs seek medical attention. ienses after an eye injury should only be undertaken by skilled personnel.	Ring the upper and lower lids.
	om the substrate or mixture					

Chemwatch	B .		WEE TEE TONG Chemicals Composite Solutions
Meguiar's M08 - I	Mirror Glaze Maximum Mold Release Wa	x (23-135A)	Shipping Name: Not regulated Not regulated Not regulated
Motor Active		Chernwatch Hazard Alert Code: 2	Hazard Class: None None
herriwa;ch: 4904-97 ension No: 1 1.1.1.1 afoty Data Shoot according to WH	HS and ADX requirements	Issue Dete: 03/07/2014 Print Date: 23/08/2016 LOHS.AUS.CN	UN Number: None None None
ECTION 1 IDENTIFICATI	TON OF THE SUBSTANCE / MIXTURE AND OF THE COMPAN	Y / UNDERTAKING	Packing Group: None None
roduct Identifier			
Product name	Meguiar's M08 - Mirror Glaze Maximum Mold Release Wax (23-135A)	24	
Synonyms	Not Available		
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (contains bi	sta-pinene and slpha-pinene)	Section 15 – Regulatory Information
Other means of	Not Avaultia		Classification and Labelian (EEC)
identification Relevant identified uses of	Not Available		Classification and Labeling (EEC): This product is not hazardous according to European Directives 99/45/EC, 67/548/EEC and their latest amendment.
Relevant identified uses	Use according to manufacturei's directions. Re case agent.		Symbol(s): None
Details of the supplier of t	the safety data sheet		R-phrase(s): None
Registered company name	Motor Active	Meguians	
Address	35 Skugh Business Park, Holker Street Silverwater NSW 2128 Australia	17991 Mitchell South Irvine CA 82714 United States	S-phrase(s): S22 - Do not breathe dust.
Telephone	+61 2 9737 9422 1800 350 522	+1 9/9 762 8000 +1 800 347 5700	
Fax	+61 2 9737 9414	+1 949 752 5784	Component Analysis – Inventory
Website	www.motonictive.com.au	https://www.megulars.com/	Component CAS # TSCA EINECS
Email	andrew.spira@motoractive.com.au	Not Available	Glass, Oxides (Fiber Glass Continuous Filament) 65997-17-3 Yes 266-046-0
Emergency telephone num			
Association / Organisation	MotorActiva	Not Available	Section 16 – Other Information
Emergency telephone numbers	r61 2 9737 9422 (For General Information Monday to Friday 8:30am to 5 pm)	Not Available	Key/Legend
Other emergency telephone numbers	13 11 28 (In Case of Emergency contact: Poison Information Hotline)	Not Available	TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists IARC = International Agency for Research on Cancer; NTP = National Toxicology Program; WHO = World
SECTION 2 HAZARDS ID Classification of the subst		is and the ADG Code.	Health Organization; IATA = International Air Transport Association; RID = European Rail Transport; ADR = European Road Transport; IMO = International Maritime Organization; MEL = Maximum Exposure Limits; TWA = Time Weighted Average; STEL = Short-term Exposure Limit Ref. IOM Study; Source: NAIMA 1997; Unpublished letter. Rat inhalation studies with E-Glass micro-fibers at Institute of Medicine, Scotland, January 30, 1997. Letter to USEPA TSCA 8(e) coordinator.
CHEMWATCH HAZARO RATIN Min Flammabilty 1 Toxicity 1 Body Contact 2 Reactivity 1 Chronic 2	NGS Max 0 = Ministan 2 = Low 2 = Modente 2 = Ecome 4 = Ecome		This Product Safety Data Sheet has been prepared in conformity with EU Directive 91/155/EEC; 99/45/EC and 67/548/EEC and their latest amendments. It is the responsibility of the person in receipt of this product safety data sheet to ensure that the information contained herein is properly understood by all people who may use, handle or dispose of the product or in any way come in contact with the product.
Poisons Schedule	Not Applicable		The information provided in this product safety data sheet is based on current state of scientific and technical knowledge at the date indicated on the present document.
Classification ^[1]	Flammable L quid Category 4, Skin Corrosion/Intation Category 2, Skin Sensitize (narcotic effects), Aspiration Hazzrd Category 1, Acute Aquatic Hazard Category	2. Chronic Acuatic Hazard Category 2	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HSIS; 3. Classification of	rewn from EIS Directive 1272/2008 - Annex VI	
	The second second second		
Label elements			
Label elements GHS label elements			86. 80 gr 5 st 10 st 10 st
			5 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungel Kadut Street 3 Singapore 729149
SIGNAL WORD			No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232
GHS label elements	DANGER		No. 18 Sungei Kadut Street 3 Singapore 729149

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

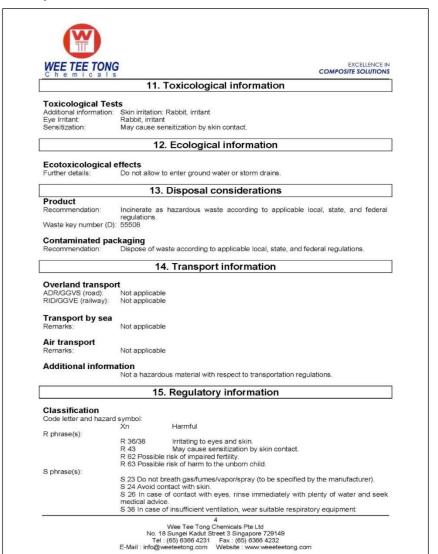
WEE TEE TONG C h e m i c a l s COMPOSITE SOLUTIONS	WEE TEE TONG Chemicals COMPOSITE
Section 10 – Chemical Stability & Reactivity Information	Germany Alveolar dust: 6 Respirable Fibres: 0,25 Ireland Inhalable dust: 5 Respirable Fibres: 2
Reactivity: This is a stable material.	Italy Dust : 10 Fibres: 1 Netherlands Respirable dust: 5 Respirable fibres: 2 General dust: 10
Conditions to Avoid: None expected.	Norway Inert respirable dust: 5 Fibres: 1 Total inert dust: 10 Portugal Fibrous dust: 1 NoneTotal dust 4
Incompatible Materials: None expected.	Spain Dust : 10 Fibres: 1
Unersideur Desembra Mar Dandustes None in sone office and Castion 5	Sweden Respirable dust: 5 Fibres: 1 Total dust 10
Hazardous Decomposition Products: None. In case of fire see Section 5. Hazardous Polymerization: Will not occur, all binders are fully polymerized.	Switzerland Dust : 6 Respirable fibres 0,5 U.K. Respirable dust : 5 Respirable fibres: 2 Total dust : 10
Section 11 – Toxicological Information	Refer to local legislation for exposure limits in other countries.
Carcinogenicity:	Ventilation: General ventilation and/or local exhaust ventilation should be provided as necessary exposures below regulatory limits.
Fiber Glass Continuous Filament: According to the E.U. Directives the continuous filament glass fibers in these products are not classified as carcinogenic. Continuous filament glass fibers are not within the scope	PERSONAL PROTECTION
of Directive 67/548/EEC per amendment 97/69/EC, since they are not "fibres with random orientation."	Personal Breathing Protection: Under normal circumstances, breathing protection is not necessary. To avoid irritation a proper
The International Agency for Research on Cancer (IARC) in June 1987, categorized fiberglass continuous filament as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as	disposable filtermask should be used. In extreme circumstances (exposure exceeding the
well as animal studies was evaluated by IARC as insufficient to classify fiberglass continuous filament as a	exposure limit) the use of a properly fitted half-mask respirator with a P2 filter should be respiratory protection in accordance with your company's respiratory protection program and
possible, probable, or confirmed cancer causing material. The American Conference of Governmental Industrial Hygienists (ACGIH) has established an A4	regulations.
classification, not classifiable as a human carcinogen, for respirable continuous filament glass fibers. This wasbased on inadequate evidences in terms of its carcinogenicity in humans and/or animals	Loose fitting long sleeved shirts that cover to the base of the neck, long trousers and gloves shoul
The continuous filament glass fibers in these products are "non-respirable." Products that are chopped,	Skin irritation is known to occur chiefly at pressure points such as at the base of the neck, wrisi
crushed or severely mechanically processed during manufacture or use contain small amounts of respirable glass "fiber-like" fragments (WHO Criteria > 5 microns in length; < 3 microns in diameter and an aspect ratio	between the fingers. Be careful not to rub or scratch irritated areas. Rubbing or scratching may into the skin. In extreme circumstances, a disposable overall and gloves are recommended.
> 3:1 (length to width ratio). Available exposure monitoring data indicates that airborne exposure	
concentrations of respirable glass "fiber-like" fragments are expected to be extremely low or non-detectable.	Eyes/Face Protective Equipment: To avoid irritation of the eves, safety glasses with side shields or goggles are recommended.
Section 12 – Ecological Information	Work and Hygienic Practices:
	Avoid unnecessary exposure to dust and handle with care. Remove material from clothing using
Ecotoxicity: A: General Product Information	cleaner. Never use compressed air. Keep the work area clean of dust and fibres by using a vacuum cleaner with a high efficiency filter. Avoid dry sweeping or the use compressed air. Have
No data are available for this product. This material is not expected to cause harm to animals, plants or fish.	an eye wash station and shower. Clothing should be washed separately from other clothing
B: Ecotoxicity - Aquatic Toxicity	washer/sink to prevent loose glass fibres from getting on other articles.
No ecotoxicity data are available.	Section 9 – Physical & Chemical Properties
Environmental Fate:	Vapor Pressure (mm HG @ 20 C): Not applicable
No data are available for this product. This product is not expected to be biodegradable.	1000
	Vapor Density (Air=1): Not applicable
Section 13 – Disposal Considerations Disposal Instructions:	Vapor Density (Air=1): Not applicable Specific Gravity (Water=1): 2.60 Boiling Point: Not applicable
Section 13 – Disposal Considerations	
Section 13 – Disposal Considerations Disposal Instructions: Consult appropriate authorities before disposing waste material. Dispose, recycle or re-use waste material	Specific Gravity (Water=1): 2,60 Boiling Point: Not applicable
Section 13 – Disposal Considerations Disposal Instructions: Consult appropriate authorities before disposing waste material. Dispose, recycle or re-use waste material according to local and national requirements.	Specific Gravity (Water=1): 2,60 Boiling Point: Not applicable Solubility in Water: Insoluble Viscosity: Not applicable
Section 13 – Disposal Considerations Disposal Instructions: Consult appropriate authorities before disposing waste material. Dispose, recycle or re-use waste material according to local and national requirements. Section 14 – Transportation Information International Transport: IATA RID/ADR IMO	Specific Gravity (Water=1): 2,60 Boiling Point: Not applicable Solubility in Water: Insoluble Viscosity: Not applicable Appearance: Solid nonwovenmat Physical State: Solid Flash Point: Not applicable Freezing Point: Not applicable
Section 13 – Disposal Considerations Disposal Instructions: Consult appropriate authorities before disposing waste material. Dispose, recycle or re-use waste material according to local and national requirements. Section 14 – Transportation Information International Transport: IATA RID/ADR IMO 4 Wee Tee Tong Chemicals Pte Ltd No. 18 Surgei Kadul Street 3 Singapore 729/49	Specific Gravity (Water=1): 2,60 Boiling Point: Not applicable Solubility in Water: Insoluble Viscosity: Not applicable Appearance: Solid nonwovenmat Physical State: Solid Flash Point: Not applicable Freezing Point: Not applicable % Wee Tee Tong Chemicals Pte Ltd No. 18 Sungel Kadut Street 3 Singapore 729149
Section 13 – Disposal Considerations Disposal Instructions: Consult appropriate authorities before disposing waste material. Dispose, recycle or re-use waste material according to local and national requirements. Section 14 – Transportation Information International Transport: IATA RID/ADR IMO 4 Wee Tee Tong Chemicals Pte Ltd	Specific Gravity (Water=1): 2,60 Boiling Point: Not applicable Solubility in Water: Insoluble Viscosity: Not applicable Appearance: Solid nonwovenmat Physical State: Solid Flash Point: Not applicable Freezing Point: Not applicable Wee Tee Tong Chemicals Pte Ltd

SC Auto (Myanmar) Co., Ltd.

WEE TEE TONG Chemicals COMPOSITE SOLUTIONS	Chemicals COMPOSITE SOLUT
remove fibers. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibers into the skin. Remove polluted clothing. If irritation persists, get medical attention. Ingestion: Accidental ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that intestinal blockage does not occur. Rinse the mouth with water and drink water to remove fibres	SAFETY DATA SHEET : FIBREGLASS ROVING, CHOPPED STRA CHOPPED STRAND MAT, WOVEN ROVING, MILLED FIBRE, GLASS FLA YARN, FIBREGLASS CLOTH, SURFACE TISSUE, C VEIL, BOAT TA GLASS TAPE, BIAXIAL MAT, UNIDIRECTIONAL FABRIC, QUADRIAX FABRIC.
from the throat. If irritation persists, get medical attention.	
Section 5 - Fire Fighting Measures	Section 1 - Product and Company Identification
Flammability: This product will burn poorly.	Product Name(s): Fibreglass Roving, Chopped Strand, Chopped strand Mat, Woven Roving, Millec Fibre, Glass Flake, Yarn, Fibreglass Cloth, Surface Tissue, C Veil, Boat Tape, G
Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog.	Tape, Biaxial Mat, Triaxial, Vitrocore, Unidirectional Fabric, Quadriaxial Fabric
Unusual Fire & Explosion Hazards: Toxic fumes can be released during a fire.	
Hazardous Combustion Products: Primary combustion products are carbon monoxide, carbon dioxide and water. Formaldeyde, nitrogen oxides, amines and other undetermined compounds could be released in small quantities.	Section 2 - Hazards Identification The product is not classified as hazardous according to Regulation (EC) 1272/2008
Section 6 – Accidental Release Measures	Label Elements
Land Spill: Scoop up material and put into suitable container for disposal as a non-hazardous waste. Water Spill: This material will sink and disperse along the bottom of waterways and ponds. It can not easily be removed after it is waterborne; however, the material is non-hazardour in water.	Signal Word : No signal word Hazard Statements : No critical hazards
Air Release: This material will settle out of the air. If concentrated on land it can then be scooped up for	Section 3 – Composition / Information on Ingredients
disposal as a non-hazardous waste.	Ingredient(s) % by weight Classification Identifiers Fibrous glass 98-100% Not Classified CAS 65997-17-3
Section 7 – Handling and Storage	Fibrous glass 98-100% Not Classified CAS 65997-17-3 Polymeric Organic Binder 0-2% Not Classified Not available
Storage Temperature: Not Applicable.	No hazardous ingredient in the meaning of European Directive 67/548/EEC and 99/45/EC and their lates amendments.
Storage Pressure: Not Applicable.	
General: No special storage or handling procedures are required for this material.	Section 4 - First Aid Measures
Section 8 – Exposure Controls / Personal Protection	Inhalation:
Country Particulate (8 hr TWA) mg/m3	Immediately move the affected person to fresh air. If symptoms persist, get medical attention.
Man Made Vitreous Fibres: (8 hr TWA) Fibres / ml	Eye Contact:
Austria Fine dust: (yearly avg) 6 Fibres: 0,5(monthly average) 12 Belgium Dust 10 None	Immediately flush eyes with plenty of water for at least 15 minutes. Do not rub or scratch eyes. Rubbin scratching may cause mechanical damage. If irritation persists get medical attention.
Denmark Inert respirable dust: 5 Fibres: 1 Total inert dust: 10 Finland Inert Organic Dust 10 Fibres: 1 France Total Dust: 10 Respirable fibres: 1	Skin Contact: For skin contact, wash immediately with soap and cold water. Do not wash with warm water because this open up the pores of the skin, which will cause further penetration of the fibres. Use a washcloth to
2 Wee Tee Tong Chemicals Pte Ltd	T Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadul Street 3 Singapore 729149

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

WEE TEE TONG	EXCELLENCE COMPOSITE SOLUTION
	Jse only in well ventilated areas. Avoid exposure - obtain special instructions before use.
Special designation of certain	
National regulations	ins epoxy combinations
Technical guidance air: I - III: Water risk class:	0%
	water pollutant (allocation)
Further regulations, limitations	and legal requirements: National regulations USA:
	SARA Title III - Hazard Classes:
	- Acute Health Hazard - Chronic Health Hazard
	NFPA Hazard Rating: - Health = Not established
	- Fire = 1 (slight)
	 Reactivity = Not established SARA Title III - Section 313 Supplier Notification: See chapter 2
	16. Other information
	10. Other information
Further remarks Text for labelling:	Contains epoxy combinations
rextroi labelling.	Follow manufacturer's directions.
	see chapter 1, department responsible for information.
present-day knowledge. It do	es not represent a guarantee for the properties of the product described in
	es not represent a guarantee for the properties of the product described in
present-day knowledge. It do	es not represent a guarantee for the properties of the product described in
present-day knowledge. It do	es not represent a guarantee for the properties of the product described in
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present-day knowledge. It do	es not represent a guarantee for the properties of the product described in ulations. 5 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149
present-day knowledge. It do terms of the legal warranty reg	es not represent a guarantee for the properties of the product described in ulations. Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (66) 5366 4231 – Fax: (66) 5366 4232
present-day knowledge. It do terms of the legal warranty reg	es not represent a guarantee for the properties of the product described in ulations. 5 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

WEE TEE TONG	EXCELLENCE IN COMPOSITE SOLUTIONS	WEE TE
8. Exposure controls	/ personal protection	Chemi after swallow
Information on system design and engined Information for safe handling: Use only explosion-proof equipment/ir See also Information in chaoter 7, sec	istruments.	
		Suitable extin
Components with workplace relevant cond CAS-Number Chemical name (acc. to 84-74-2 Dibutylphthalate OSHA/NIOS	EC) Type Value	Extinguisher
Personal protection equipment		Particular ha
Respiratory protection: Use respiratory protection whenever v	entilation is inadequate.	Particular pro
Hand protection: Protective gloves		Additional inf
Eye protection: Tightly sealed safety glasses		
Body protection: Closed work clothing		
General protection and hygiene measures: Wash hands when done working with contact with skin and eyes. When usin	n material; at breaks, lunch, shift changes, etc. Avoid g do not eat, drink or smoke.	Personal pre Environment
9. Physical and ch	nemical properties	
Appearance Form: Paste Odour: weakly aromatic		Additional inf
Safety relevant data pH value: n.a.		
Boiling temperature / boiling range: n.a. Melting point / melting range: n.a.		Handling Information f
Flash point: 101°C Ignition temperature: n.a.		Avoi MAK
Explosive properties: n.a.		char
Explosion limits: lower: 0.8 Vol% Vapour pressure: at 20°C: n.a.		cloth with
Density: at 20°C: 1.26 g/ml		agai
Solubility in water: at 20°C: insoluble Viscosity: pasty		than
10. Stability a	and reactivity	Requirement
Additional information		Elec
Condition to avoid (hazardous reactions):		may Keej
Static discharges Materials to avoid:		area
Avoid contact with strong acids, strong	bases and strong oxidizing agents.	sour
Hazardous decomposition products: Hazardous decomposition byproducts nitrogen oxides may develop with expr	s such as carbon dioxide, carbon monoxide, smoke ssure to high temperature.	Information a Kee

Seek medical attention immediately. Keep affected person calm. Do not induce vomiting. 5. Fire fighting measures shing media: Alcohol resistant foam, carbon dioxide, extinguishing powder, water fog uitable on safety grounds: high power water jet ds arising from the preperation itself, combustion products or resulting gases: Exposure to fire produces thick, black smoke that is hazardous to health. Harmful by nhalation. tive equipment Wear self-contained breathing apparatus. Cool endangered containers with water spray. ation USA: Flammability Class: NFPA1 6. Accidental release measures tions Keep away from sources of ignition. Provide adequate ventilation. Do not inhale vapor. recautions Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. ation: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Clean using cleansing agents. Do not use solvents.

EXCELLENCE IN COMPOSITE SOLUTIONS

7. Handling and storage

afe handling: rmation of flammable and potentially explosive solvent vapors in the air. Avoid exceeding eshold levels. Keep away from sources of ignition. Product may become electrostatically When filling containers, use only grounded equipment with bonding leads. Anti-static including shoes are recommended during use. Use only spark proof tools. Avoid contact and eyes. Do not inhale vapor or fog. When using do not eat, drink or smoke. Precautions fire and explosion: Vapors form potentially explosive mixtures with air, which are heavier Air-Vapor mixture may travel great distances at floor level and lead to backflash when d to an ignition source.

storerooms and containers:

I equipment must be explosion proof according to standards. Floors must be electrically ve. Keep container tightly closed. Do not use air pressure to deliver. Only trained personnel allowed to enter storage area. Carefully close containers, store upright to prevent any leaks. nly in the original container Store in securely closed containers in cool dry , well-ventilated emperatures between 15° and 30°C. Protect from heat and direct sunlight. Keep away from of ignition. No smoking.

at storage in one common storage facility: ay from strongly acidic and alkaline materials as well as oxidizers.

> Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeteetong.com

Chemicals	
SA	FETY DATA SHEET : PIGMENT PASTE J SERIES
	In accordance with Directives 91/155/EEC + 93/112/EEC and ISO 11014-
	Date of update: 10 / 01 / 1
Page: 1 of 6	
1. Identificati	on of the substance/preparation and of the company/undertaking
Identification of the subs	tance or preparation
Commercial Product name:	J-Series - Pigment Paste
Company/undertaking ide	
Manufacturer / distributor: Street/POB-No.:	Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3
State/city/postal code:	Singapore 729149
Telephone:	(65) 6366 4231
	2. Hazard Identification
The product is not classified as h	nazardous according to Regulation (EC) 1272/2008
Label Elements	
Signal Word	No signal word
Hazard Statements	No critical hazards
3. Con	position/information on ingredients
3. Com	position/information on ingredients
Comprises of Solvent free reactive resin syste	· · · · ·
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black	· · · · ·
Comprises of Solvent free reactive resin syster Titanium Dioxide	· · · · ·
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black	m
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation	m
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation	m drying material.
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation Polyester Colour Paste is a non- General information: Always seek m	m drying material. 4. First aid measures redical attention if symptoms develop that are possibly due to exposur
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation Polyester Colour Paste is a non- Constant Colour Paste is a non- Polyester Colour Paste is a non- Colour Paste is a non- Polyester Colour Paste is a non- Colour Paste is a non- Polyester Colour Paste is a non- Colour Paste is a non-	drying materiat. 4. First aid measures
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation Polyester Colour Paste is a non- General information: Always seek m through skin or of after inhalation: Provide fresh ai	m drying material. 4. First aid measures redical attention if symptoms develop that are possibly due to exposur aye contact or through inhalation of fumes. r. Instruct person to keep calm and warm. If breathing becomes irregular c
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation Polyester Colour Paste is a non- General information: Always seek m through skin or o after inhalation: Provide fresh ai ceases, adminis	m drying material. 4. First aid measures edical attention if symptoms develop that are possibly due to exposur sye contact or through inhalation of furnes. r. Instruct person to keep calm and warm. If breathing becomes irregular c ter artificial respiration or oxygen immediately, as needed. If victim is at ris
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation Polyester Colour Paste is a non- different colour Paste is a non- alter inhalation: Always seak m after inhalation: Provide fresh ai ceases, adminis of losing consoid after skin contact:	m drying material. 4. First aid measures redical attention if symptoms develop that are possibly due to exposur sye contact or through inhalation of fumes. r. Instruct person to keep calm and warm. If breathing becomes irregular of ter artificial respiration or oxygen immediately, as needed. If victim is at ris susness, position and transport on their side. Seek medical attention.
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation Polyester Colour Paste is a non- diverse colour Paste is a non- Polyester Colour Paste is a non- mulack Polyester Colour Paste is a non- diverse colour paster Always seek m through skin or a after inhalation: Provide fresh ai ceases, adminis of losing consoic after skin contact: Take all contan	m drying material. 4. First aid measures edical attention if symptoms develop that are possibly due to exposur eye contact or through inhalation of fumes. r. Instruct person to keep calm and warm. If breathing becomes irregular ter artificial respiration or oxygen immediately, as needed. If victim is at ris usness, position and transport on their side. Seek medical attention. ninated clothing off immediately. After contact with skin, wash immediately.
Comprises of Solvent free reactive resin syster Titanium Dioxide Carbon Black Proprietary Formulation Polyester Colour Paste is a non- diverse seek m through skin or i after inhalation: Provide fresh ai ceases, adminis of losing conscis after skin contact: Take all contan with soap and p after eye contact:	m drying material. 4. First aid measures redical attention if symptoms develop that are possibly due to exposur sye contact or through inhalation of fumes. r. Instruct person to keep calm and warm. If breathing becomes irregular of ter artificial respiration or oxygen immediately, as needed. If victim is at ris susness, position and transport on their side. Seek medical attention.

WEE TEE TONG		EXCELLENCE IN COMPOSITE SOLUTIONS
NJ Department of Health PTK List STYRENE	00100-42-5	[present]
NJ Environmental Hazardous Subst STYRENE	ances List 00100-42-5	[present]
NJ Special Hazardous Substances STYRENE	00100-42-5	(flammable – third degree)
Pennsylvania Right to Know List STYRENE	00100-42-5	environmental hazard
Rhode Island Hazardous Substance STYRENE	List 00100-42-5	Toxic, Flammable
International Regulations		
Canada – NPRI (National Pollutant F STYRENE	Release Inventory) 00100-42-5	[present]
Inventory – Canada – Domestic Sub STYRENE	stances List 00100-42-5	CeHa
Nil		
Disclaimer The health and safety information is av makes no representation of the informa based on either; reference sources, t professional judgement. The physical of specifications or guaranteed analysis. Ti hazard criteria of the Controlled Products by Controlled Products Regulation. Of exercise their independent judgement, on determine how to utilize this material. appropriateness for a specific use, the ty use of engineering controls.	tion's completeness or resting performed on data should not be co he material has been o s Regulation and the SI PC expects those per- r consult with a compet This includes, but is	accuracy. Any data provided is a representative sample(s), or instrued as either representing lassified in accordance with the So contains information required sons who receive this SDS to ent health/safety professional, to not exclusive to, the material

WEE TEE TONG		EXCELLENCE IN COMPOSITE SOLUTIONS	WEE TEE TONG C h e m i c a i s	EXCELLENC COMPOSITE SOLUTIO
Sea (IMO/IMDG) Shipping Name UP Resin Class 3 Packing Group 111			Repeated exposures to styrene vapor in animal stud above 100 ppm. Also, nasal lesions were observed a in mice.	
UN Number 1866 Air (ICAO/IATA) Shipping Name UP Resin Class 3 Subsidiary Class UN1866			Some evidence of hearing loss was observed in rat 200 ppm. No significant hearing loss is expected styrene. In addition it has been reported that some wi greater than 50 ppm., develop small decreases in t effect were very subtle and not likely to be noticed. Styrene did not cause birth defects in laboratory anir	to occur in human's occupationally exposed orkers, primarily those with mean exposure le- the ability to discriminate between colors. The
Packing Group III European Road/Rail (ADR/RID) Shipping Name UP Resin Class 3			have been reported. It should be noted that these of that were matemally toxic. Human studies do not sh birth defects from styrene exposure.	levelopmental effect occurred at exposure lev now any significant risk of reproductive toxicity
15.	Regulatory Information		Mixed results have been reported for styrene in convincing evidence of cytogenic damage in laborato studies on peripheral blood lymphocytes of workers chromosomal damage, although there is no clear dos	ory animals exposed to styrene. Some cytogen s exposed to styrene have reported increases
U.S. Federal Regulations CAA – 1990 Hazardous Air Poll STYRENE	utants 00100-42-5	[present]	The International Agency for Research on Cancer(I/ as possibly carcinogenic to humans(Group 2B)	ARC) has evaluated styrene and has classifie
CAA – HON Rule – Organic HA STYRENE	Ps 00100-42-5	[present]	Section 12. Ecological Information	
CAA – HON Rule – SOCMI Che STYRENE CAA – Volatile Organic Compo	00100-42-5	[present]	Environmental Fate information for this material, as described in the MSD ingredient data may be available. If such information i using the phone numbers provided in the MSDS' Sec	is desired, please contact appropriate people
STYRENE TSCA – Sect. 5(s) – Substance	00100-42-5	[present]		
Superfund Amendments & Rea CERCLA/SARA – Section 313 -	uthorization Act of 1986 - Emission Reporting	r 1.0% de minimus concentration	Section 13. Disposal consideration Waste Management/Disposal Dispose of the waste material in accordance with Loc	al. State, and or Federal regulations,
State Regulations California – Directors List of H STYRENE	azardous Substances (8 C 00100-42-5	CR 339) [present]	Containers Emptied containers retain vapour and residual materi	
Florida Hazardous Substance STYRENE	_ist 00100-42-5	[present]	vapour hazard. All hazard precautions given in this da cleaned, reconditioned, or destroyed.	ita sheet must be observed until the container
Massachusetts Right To Know STYRENE	00100-42-5	[present]	Section 14. Transport Information Land Transport (ADG) Shipping Name UP Resin	
Michigan Critical Materials List STYRENE	00100-42-5	[present]	Shipping Name UP Resin Hazard Class 3 Identification Number UN1866 Packing Group III	
Minnesota Hazardous Substan STYRENE	ce List 00100-42-5	[present]	International Information	
No. 18 Sung Tel : (65) 6	7 Tee Tong Chemicals Pte Ltd ei Kadut Street 3 Singapore 72 366 4231 Fax : (65) 6366 42 ong.com Website : www.wee	32		et 3 Singapore 729149

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

WEE TEE TON		EXCELLENCE IN COMPOSITE SOLUTIONS
Vapor Pressure	Styrene	4.3 mmHg
Evaporation Rate	Styrene	3.10 (Butyl Acetate=1)
Vapor Density	Styrene	3.6 (Air=1)
Solubility In Water		immiscible
Percent Solids		50 ~ 80 %
Chemical Family		Unsaturated Polyester Solution
Section 10. Stability	/ & Reactivi	ty
Halides and Soap Conditions to Av Prolonged storage al	Agents, Fr os. void cove 75 Deg	n to begin. ee Radical Initiators such as peroxides, and Metallic . F., Sunlight, Open Flame, and all forms of contaminants.
Materials to Avoid Acids, Oxidizing Halides and Soap Conditions to Av Prolonged storage al Hazardous Deco Carbon Monoxide	olymerization Agents, Fr os. void cove 75 Deg mposition c, Carbon I	n to begin. ee Radical Initiators such as peroxides, and Metallic . F., Sunlight, Open Flame, and all forms of contaminants.
Materials to Avoid Acids, Oxidizing Halides and Soap Conditions to Av Prolonged storage al Hazardous Deco Carbon Monoxide	Agents, Fr os. void cove 75 Deg mposition carbon f result of in	n to begin. ee Radical Initiators such as peroxides, and Metallic r. F., Sunlight, Open Flame, and all forms of contaminants. I Products Dioxide, and Low Molecular Weight Hydrocarbons may neomplete combustion.
Materials to Avoid Acids, Oxidizing Halides and Soar Conditions to At Prolonged storage al Hazardous Deco Carbon Monoxide be released as a	Agents, Fr os. void mposition , Carbon I result of in ogical Infor Eye irritatio	n to begin. ee Radical Initiators such as peroxides, and Metallic . F., Sunlight, Open Flame, and all forms of contaminants. n Products Dioxide, and Low Molecular Weight Hydrocarbons may neomplete combustion. mation
Materials to Avoid Acids, Oxidizing Halides and Soar Conditions to At Prolonged storage al Hazardous Deco Carbon Monoxide be released as a Section 11. Toxicol Acute toxicity data:	olymerization Agents, Fr is. ioid zove 75 Deg mposition , Carbon I result of in ogical Inforn Eye irritatio d. See other	n to begin. ee Radical Initiators such as peroxides, and Metallic .F., Sunlight, Open Flame, and all forms of contaminants. I Products Dioxide, and Low Molecular Weight Hydrocarbons may necomplete combustion. mation n toxicity data.
Materials to Avoid Acids, Oxidizing Halides and Soar Conditions to Av Prolonged storage al Hazardous Deco Carbon Monoxide be released as a Section 11. Toxicol Acute toxicity data: Testing not conducte Skin irritation Testing not conducte Dermal LD50	olymerization Agents, Fr ys. roid cove 75 Deg mposition , Carbon I result of in ogical Inforn Eye irritatio d. See other	n to begin. ee Radical Initiators such as peroxides, and Metallic I. F., Sunlight, Open Flame, and all forms of contaminants. In Products Dioxide, and Low Molecular Weight Hydrocarbons may ncomplete combustion. In toxicity data.
Materials to Avoid Acids, Oxidizing Halides and Soar Conditions to Av Prolonged storage al Hazardous Deco Carbon Monoxide be released as a Section 11. Toxicol Acute toxicity data: Testing not conducte Skin irritation Testing not conducte Dermal LD50 Testing not conducte Oral LD50	olymerization Agents, Fr ys. roid xxve 75 Deg mposition , Carbon I result of in ogical Inforn Eye irritatio d. See other d. See other	n to begin. ee Radical Initiators such as peroxides, and Metallic F., Sunlight, Open Flame, and all forms of contaminants. p Products Dioxide, and Low Molecular Weight Hydrocarbons may necomplete combustion. mation it toxicity data. toxicity data.
Materials to Avoid Acids, Oxidizing Halides and Soar Conditions to An Prolonged storage al Hazardous Deco Carbon Monoxide De released as a Section 11. Toxicol Acute toxicity data: Testing not conducte Skin irritation	olymerization Agents, Fr ys. roid xxve 75 Deg mposition , Carbon I result of in ogical Inforn Eye irritatio d. See other d. See other	n to begin. ee Radical Initiators such as peroxides, and Metallic F., Sunlight, Open Flame, and all forms of contaminants. p Products Dioxide, and Low Molecular Weight Hydrocarbons may necomplete combustion. mation it toxicity data. toxicity data.

conducted chronic study, an increased of lung cancer was observed in mice. The relevance of the mouse lung cancers to humans is uncertain. Earlier studies in which rats and mice were exposed to styreme by inhalation or ingestion are considered inadequate for assessing human cancer risk

Wee Tee Tong Chemicals Pte Ltd

No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeteetong.com

EXCELLENCE IN COMPOSITE SOLUTIONS

Handling Procedures

As with all chemicals, good industrial hygiene practices should be followed when handing this material. When the container(s) is empty it may retain product residue including vapors which could accumulate, therefore, do not cut drill, grind, or weld empty containers. Additionally, do not conduct such activity(ies) near full, partially full, or empty product containers without appropriate workplace safety authorization(s) or permit(s).

Storage Procedures

Protect container from physical abuse. Keep the container tightly closed. Keep this material in a cool, well-ventilated place. Eliminate all sources of ignition. Bond and ground containers when transferring material. Keep separate from incompatibles. Do not handle or store near an open flame heat or other sources of ignition. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

Section 8. Exposure Control / Personal Protection

Eye

Do not get in eyes. Wear chemical goggles or safety glasses with side shields

Skin

Avoid prolonged or repeated skin contact. Wear protective clothing and gloves.

Inhalation

Use with adequate ventilation. If ventilation is inadequate, use NIOSH certified respirator that will protect against organic vapor and dust/mist.

Engineering Controls

Control airborne concentrations below the exposure guidelines.

Exposure Guidelines

Component	CAS#	Exposure Limits
STYRENE		OSHA PEL 50 ppm (skin) (1989) 100 OSHA STEL , ppm (skin) (1971) (1989) 100 OSHA Ceiling : 100 ppm (skin) (1989) No ACGIH TLV-TWA established (1971) ; ACGIH TLV-STEL 20 ppm
		: 200 ppm (skin) (1971)

Section 9. Physical & Chemical Properties

Blue(or Pink、Yellowish、Green), viscous liquid with a sweet pungent odour typical of styrene.

STYRENE		geometric mean air odor threshold=50 ppm (detectable);75 ppm (recognizable)		
Boiling Point	145°C	294 °F (Styrene)		
Specific Gravity		1.06 ~ 1.19 (water=1)		
Melting Point	-30.6°C	-23.1°F (Styrene)		
Flash Point	32.0°C			

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because of deficiencies in design, conduct, or interpretation.

WEE TEE TONG EXCELLENCE IN C h e m i c a l s COMPOSITE SOLUTIONS	WEE TEE TONG EXCELLENCI C h e m i c a i s COMPOSITE SOLUTIO
	P301+P310 If swallowed, immediately call a doctor/physician/first aider P321 Specific treatment (see advice on this label).
Autoignition Temperature: 914 °F (490 °C)	P331 Do NOT induce vomiting. P370+P378 In case of fire: Use to extinguish.
Flammability Classification: Flammable Liquid.	P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remuchater contact lenses, if present and easy to do. Continue rinsing.
Extinguishing Media Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, foam, steam) or water fog.	P312 Call a doctor/physician/first aider/if you feel unwell. P337+P313 if eye irritation persists: Get medical advice/attention.
Unusual Fire and Explosion Hazards Flammable liquid. Vapor may explode if ignited in enclosed area.	GHS Precautionary statement(s): Storage P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Fire-Fighting Equipment Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.	GHS Precautionary statement(s): Disposal P501 Dispose of contents/container to authorised chemical landfill o organic to high temperature incineration
Precautions	
Keep away from sources of ignition (e.g., heat and open flames). Keep container closed. Use with adequate ventilation.	Section 3 – Composition / Information on Ingredients
Hazardous Combustion Products Hazardous polymerization possible with catalyst and heat.	Mixtures
	CAS No % [weight] Name Not Available 45-65 polyester resin
Section 6. Accidental Release, Spill, Leak Procedures	100-42-5 35-55 styrene 7631-86-9 0-1.5 silica amorphous Not Available 0-1 metal naphthenates and/or octoati
This product is a "Hazardous Waste" because of its inherent characteristics and ignitability. In the advent of any spill or leak of this material, Remove all sources of ignition. Ventilate the area. Prevent the spill material from entering drains or waterways. Remove personnel form the area. Absorb the spill using Vermiculite, Dry Sand, or Earth.	Section 4 - First Aid Measures
Spill/Leak Procedures	Eye Contact
Small Spill or Leak Soak up the spill with absorbent material and place into drums for later disposal.	Immediately flush with plenty of fresh clean water for at least 15 minutes. Obtain prompt med attention. Contact lenses should not be worn when working with this material.
Large Spill or Leak Dike area with sand and pump or scoop the spilt material into drums for later disposal. Treat the	Skin Contact
residual spilt material as for small spill or leak.	If on the skin, immediately wash off with plenty of soap and water. Remove contaminated clothi Wash clothing before reuse.
Waste Management/Disposal Dispose of the waste material in accordance with Local, State, and or Federal regulations.	
Containers	Inhalation Remove the exposed person(s) to fresh air. If not breathing apply artificial respiration and C.P.F
Containers Emptied containers retain vapour and residual material and therefore entail an explosion and toxic vapour hazard. All hazard precautions given in this data sheet must be observed until the container is cleaned, reconditioned, or destroyed.	breathing difficult, administer oxygen and call medical attention.
ordenios, foronalioned, or destroyed.	Ingestion
Section 7. Handling and Storage	Do not induce vomiting. If patient is conscious give a glass of water. Transport to doctor or hosp immediately. Keep careful watch over patient until medical assistance is available.
	Section 5. Fire Fighting Measures
3	2
Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231	Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4232

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

	SAFETY DATA SHEET	
Castion 4. Besident and Cas	Revision Date : 30 November 2016	
Section 1 - Product and Cor	npany identification	
Product name:	Flameguard 2597PT-FR-26	
Proper shipping name RESIN		
Chemical formula Not Applica		
Other means of identification I CAS number Not Applicable	NOT AVAILABLE	
on to manufer raor Applicable		
Details of the supplier of the	e safety data sheet	
Manufacturer / distributor:	Wee Tee Tong Chemicals Pte Ltd	
Street/POB-No.:	No. 18 Sungei Kadut Street 3	
State/city/postal code:	Singapore 729149	
Telephone:	(65) 6366 4231	
relephone.	(03) 0300 4231	
Section 2 - Hazards Identific	ation	
GHS Classification :	Flammable Liquid Category 3, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Aspiration Hazard	
GHS label elements	^ ^ ^	
GHS label elements		
GHS label elements Symbols :		
	Danger	
Symbols :	Danger Physical Hazards	
Symbols Signal words : GHS Hazard statements: H226	Physical Hazards Flammable liquid and vapour	
Symbols : Signal words : GHS Hazard statements: H226 H332	Physical Hazards Flammable liquid and vapour Harmful if inhaled	
Symbols Signal words GHS Hazard statements: H226 H332 H315	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation	
Symbols : Signal words : GHS Hazard statements: H226 H332	Physical Hazards Flammable liquid and vapour Harmful if inhaled	
Symbols : Signal words : GHS Hazard statements: H226 H332 H315 H319	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways	
Symbols : Signal words : HS Hazard statements: H226 H332 H315 H315 H319 GHS Precautionary statement	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention	
Symbols Signal words GHS Hazard statements: H226 H332 H315	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention Keep away from heat, hot surfaces, sparks, open flames and other	
Symbols : Signal words : H226 H322 H315 H315 H319 SHS Precautionary statement	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.	
Symbols : Signal words : GHS Hazard statements: H226 H332 H315 H315 H319 GHS Precautionary statement P210 P233 P271	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only outdoors or in a well-ventilated area.	
Symbols Signal words GHS Hazard statements: H226 H332 H315 H319 GHS Precautionary statement P210 P233 P271 P240	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin initiation Causes skin initiation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment.	
Symbols : Signal words : GHS Hazard statements: H226 H332 H315 H315 H319 GHS Precautionary statement P210 P233 P271	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Use explosion-proof electricativentilating/intrinsically safe	
Symbols Signal words GHS Hazard statements: H226 H332 H315 H319 GHS Precautionary statement P210 P233 P271 P240 P241	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
Symbols Signal words GHS Hazard statements: H226 H313 H319 GHS Precautionary statement P210 P233 P271 P240	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways is: Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment. Use only non-sparking tools.	
Symbols : Signal words : H226 H332 H315 H319 GHS Precautionary statement P210 P233 P271 P240 P241 P242	Physical Hazards Flammable liquid and vapour Harmful if inhaled Causes skin irritation Causes skin irritation Causes skin irritation Causes skin irritation Causes skin irritation Causes skin irritation Causes skin irritation Swallowed and enters airways is: Prevention Keep container tightly closed. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment. Use orly non-sparking tools. Take precautionary measures against static discharge.	

SC Auto (Myanmar) Co., Ltd. WEE TEE TONG EXCELLENCE IN COMPOSITE SOLUTIONS 15. Regulatory information Classification Code letter and hazard symbol: Xn Harmful R phrase(s): R 36/38 Irritating to eyes and skin. R 43 May cause sensitization by skin contact. R 62 Possible risk of impaired fertility. R 63 Possible risk of harm to the unborn child. S phrase(s): S 23 Do not breath gas/fumes/vapor/spray (to be specified by the manufacturer). S 24 Avoid contact with skin. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 38 In case of insufficient ventilation, wear suitable respiratory equipment. S 51 Use only in well ventilated areas. S 53 Avoid exposure - obtain special instructions before use Special designation of certain preparations: Contains epoxy combinations National regulations Technical guidance air: I - III: 0% Water risk class: water pollutant (allocation) Further regulations, limitations and legal requirements: National regulations USA SARA Title III - Hazard Classes: - Acute Health Hazard - Chronic Health Hazard NFPA Hazard Rating: - Health = Not established - Fire = 1 (slight) - Reactivity = Not established SARA Title III - Section 313 Supplier Notification: See chapter 2 16. Other information Further remarks Text for labelling: Contains epoxy combinations Follow manufacturer's directions see chapter 1, department responsible for information. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations 6 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeeteetong.com

WEE TEE TONG EXCELLENCE IN C h e m i c a l s COMPOSITE SOLUTIONS	WEE TEE TONG EXCELLENCE IN C h e m i c a l s COMPOSITE SOLUTIONS
Chemicals COMPOSITE SOLUTIONS 10. Stability and reactivity Additional information Condition to avoid (hazardous reactions): Static discharges Materials to avoid: Avoid contact with strong acids, strong bases and strong oxidizing agents. Hazardous decomposition products: Hazardous decomposition byproducts such as carbon dioxide, carbon monoxide, smoke nitrogen oxides may develop with exposure to high temperature. 11. Toxicological information Toxicological Tests Additional information: Sensitization: May cause sensitization by skin contact. 12. Ecological information Ecotoxicological effects Further details: Do not allow to enter ground water or storm drains.	C h e m i c a l s COMPOSITE SOLUTIONS Personal protection equipment Respiratory protection whenever ventilation is inadequate. Hand protection: Protection: Protection: Tightly sealed safety glasses Body protection: Closed work clothing General protection and hygiene measures: Wash hands when done working with material; at breaks, lunch, shift changes, etc. Av contact with skin and eyes. When using do not eat, drink or smoke. 9. Physical and chemical properties * Based On Styre Boiling Point: 293.2 °F, 145-1 °C * Based On Styre Boiling Point: 293.2 °F, 145-1 °C Vap. Density 3.6 Solume For the system of th
13. Disposal considerations Product Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations. Waste key number (D): 55508 Contaminated packaging Recommendation: Dispose of waste according to applicable local, state, and federal regulations. Interpret information Overland transport Resin Solution, Class 3, UN 1866, PG III Air transport Resin Solution, Class 3, UN 1866, PG III Additional information Nil	
5 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6396 4231 Fax : (65) 6396 4232 E-Mail: info@weeteotong.com Website: www.weeteotong.com	4 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungei Kadut Street 3 Singapore 729149 Tel : (65) 6386 4231 Fax: (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeteeteetong.com

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

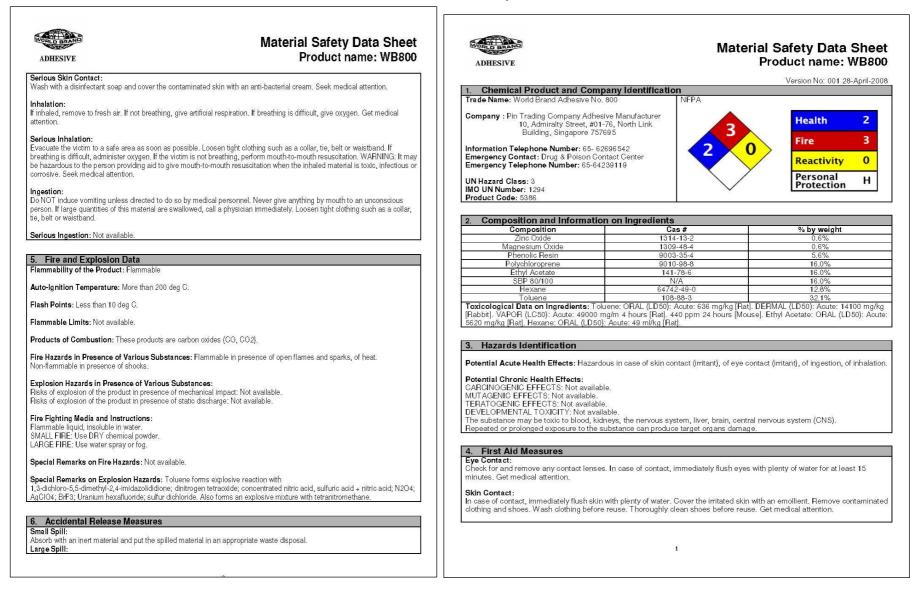
WEE TEE TONG EXCELLENCE IN C h e m i c a l s COMPOSITE SOLUTIONS	Chemicals		EXCELLENCE IN COMPOSITE SOLUTIONS
high power water jet Particular hazards arising from the preperation itself, combustion products or resulting gases:	P243	Take precautionary measur	es against static discharge.
Exposure to fire produces thick, black smoke that is hazardous to health. Harmful by	GHS Precautionary stateme	ent(s): Response	
inhalation. Particular protective equipment: Wear self-contained breathing apparatus. Cool endangered containers with water spray. Additional information: USA: Flammability Class: NFPA1	P301+P310 P321 P331 P370+P378 P370+P378 P305+P351	Specific treatment (see adv Do NOT induce vomiting. In case of fire: Use to ext IF IN EYES: Rinse caution	inguish. busly with water for several minutes. Remov
6. Accidental release measures	P312	Call a doctor/physician/first	
Personal precautions: Keep away from sources of ignition. Provide adequate ventilation. Do not inhale vapor.	P337+P313		medical advice/attention.
Environmental precautions: Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authontites in accordance with local regulations.	GHS Precautionary stateme P403+P235 P405		ace. Keep cool.
Additional information: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Clean using cleansing agents. Do not use solvents.	GHS Precautionary stateme P501		ner to authorised chemical landfill or if organic t on
7. Handling and storage	3. C	Composition/informati	on on ingredients
7. Handling and storage	Mixtures		
Handling Information for safe handling: Avoid formation of flammable and potentially explosive solvent vapors in the air. Avoid exceeding MAK threshold levels. Keep away from sources of ignition. Product may become electrostatically charged. When filling containers, use only grounded equipment with bonding leads. Anti-static clothing including shoes are recommended during use. Use only spark proof tools. Avoid contact with skin and eyes. Do not inhale vapor or fog. When using do not eat, drink or smoke. Precautions	CAS No % Not Available 100-42-5 7631-86-9 Not Available	[weight] 45-65 35-55 0-1.5 0-1	Name Iso NPG resin styrene silica amorphous metal naphthenates and/or octoates
against fire and explosion: Vapors form potentially explosive mixtures with air, which are heavier than air. Air-Vapor mixture may travel great distances at floor level and lead to backflash when exposed to an ignition source.		4. First aid me	asures
	General information:		
Requirement for storerooms and containers: Electrical equipment must be explosion proof according to standards. Floors must be electrically		ek medical attention if symptor n or eye contact or through inhal	ns develop that are possibly due to exposur ation of fumes.
conductive. Keep container tightly closed. Do not use air pressure to deliver. Only trained personnel may be allowed to enter storage area. Carefully close containers, store upright to prevent any leaks. Keep only in the original container Store in securely closed containers in cool dry , well-ventilated	Provide fres ceases, adr	minister artificial respiration or o	alm and warm. If breathing becomes irregular o xygen immediately, as needed. If victim is at ris
area at temperatures between 15° and 30°C. Protect from heat and direct sunlight. Keep away from sources of ignition. No smoking.	after skin contact:		oort on their side. Seek medical attention. ately. After contact with skin, wash immediate
Information about storage in one common storage facility: Keep away from strongly acidic and alkaline materials as well as oxidizers.	with soap a after eye contact.	nd plenty of water. Do not use se	olvents or thinners.
8. Exposure controls / personal protection		y flush eyes with plenty of flowing tly consult an opthalmologist.	g water for 10 to 15 minutes holdingeyelids apar
	after swallowing:		
Information on system design and engineering measures Information for safe handling:	Seek medic	cal attention immediately. Keep a	iffected person calm. Do not induce vomiting.
Use only explosion-proof equipment/instruments. See also Information in chapter 7, section storage.		5. Fire fighting n	neasures
Components with workplace relevant concentration limits CAS-Number Chemical name (acc. to EC) Type Value 84-74-2 Dibutylphthalate OSHA/NIOSH/ACGIH-TWA 5 mg/m ²	Suitable extinguishing media Alcohol resi Extinguisher unsuitable on s	istant foam, carbon dioxide, extir	nguishing powder, water fog
3 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungel Kadut Street 3 Singapore 729149 Tel : (65) 6366 4231 Fax : (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeeteetong.com	E-M	2 Wee Tee Tong Chemic No. 18 Sungei Kadut Street 3 Tel : (65) 6366 4231 Fax : Iail : info@weeteetong.com Webs	Singapore 729149 (65) 6366 4232

WEETEE TONG Chemilicals COMPOSITE SOLUTIONS	Material Safety Data Sheet ADHESIVE Product name: WB800
SAFETY DATA SHEET in accordance with Directives 91/155/EEC + 93/112/EEC and ISO 11014-1 Gelcoat GH / GS 5200-8	Protective Equipment: Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.
Date of print: 02/01/15 Page: 1 of 6 1. Identification of the substance/preparation and of the	16. Other Information References: Not available. Other Special Considerations: Not available.
Company/undertaking Identification of the substance or preparation Commercial Product name: Gelcoat GH / GS 5200-8 Company/undertaking identification	Created: 28/04/2008 Last Updated: 28/04/2008 The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we
Wanufacturer / distributor: Wee Tee Tong Chemicals Pte Ltd Manufacturer / distributor: No. 18 Sungei Kadut Street 3 State/city/postal code: Singapore 729149 Telephone: (65) 6366 4231	assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AMLAB has been advised of the possibility of such damages.
2. Hazard identification 3. Flammable Liquid Category 3, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Aspiration Hazard	
GHS label elements	
Symbols : V V V Signal words : Danger	
GHS Hazard statements: Physical Hazards H226 Flammable liquid and vapour H332 Harmful if inhaled H315 Causes skin irritation H319 Causes serious eye irritation ContinuedH304 May be fatal if swallowed and enters airways	
GHS Precautionary statements: Prevention P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P271 Use only outdoors or in a well-ventilated area. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/intrinsically equipment. P242 Use only non-sparking tools.	
1 Wee Tee Tong Chemicals Pte Ltd No. 18 Sungel Kadut Street 3 Singapore 729149 Tel: (65) 6366 4231 Fax: (65) 6366 4232 E-Mail : info@weeteetong.com Website : www.weeeteetong.com	7

Adhesive Material Safety Data Sheet Product name: WB800	ADHESIVE Material Safety Data Shee Product name: WB800	
14. Transport Information DOT Classification: CLASS 3: Flammable liquid. Identification: Toluene UNNA: 1294 PG: II Special Provisions for Transport: Not applicable. Iteration: Content of the provisions for Transport: Not applicable. Iteration: Content of the provisions for Transport: Not applicable. Iteration: Content of the provisions for Transport: Not applicable. Iteration: Content of the provisions for Transport: Not applicable. Iteration: Content of the provisions for Transport: Not applicable. Iteration: Content of the provisions for Transport: Not applicable. Iteration: Content of the provisions for Transport: Not applicable. Iteration: Content of the product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth would require a warning under the statute: Toluene Connecticut hazardous material survey.: Toluene to the statute: Toluene California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth for Heazardous Substances.: Toluene California prop. 65: The product substances.: Toluene California prop. 65: The product substances.: Toluene California prop. 65: The product substances.: Toluene: Toluene California prop. 65: The product substances.: Toluene: 10/0/4/82; Sunset Date: 10/0/92 <td cols<="" td=""><td> Chronic Effects on Humans: CARCINOGENIC EFFECTS: A4 (Not classifiable for human or apimal.) by ACGIH, 3 (Not classifiable for human) by IARC. May cause damage to the following organs: blood, kidneys, the nervous system, liver, brain, central nervous system (CNS). Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Special Remarks on Toxicity to Animals: Lowest Published Lethal Dose: LDL (Human) - Route: Oral; Dose: 50 mg/kg LCL [Rabbit] - Route: Inhalation; Dose: 55000 ppm/40min Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Splash contact with eyes also causes conjunctivitis, blepharospam, comeal advaisons. This usually resolves in 2 days. Inhalation: Inhalation of vapor may cause respiratory tract irritation causing coughing and wheezing, and nasal discharge. Inhalation of high concentrations may affect behavior and cause central nervous system effects on an Anasad or decreased or decreased blood pressure, dysrhythmia,), respiration (acute pulmonary edema, respiratory depression, annea, asphyxia), cause vision disturbances and diated pupils, and cause loss of appetite. Ingestion: Aspiration Aspiration, Fred ackard, aphrotany, increased or decreased blood pressure, dysrhythmia,), respiration (acute pulmonary edema, respiratory depression, apnea, asphyxia), cause vision disturbances and dilated pupils, and cause loss of appetite. Ingestion: Aspiration Asard. Aspiration and wase, vomiting, pain. May have effects similar to that of acute inhalation. Chronic Potential Health Effects: Inhalation and Ingestion: Prolonged or repeated exposure via inhalation may cause central nervous system and cardiovascular symptoms similar to that of acute inhalation. Chronic Potential Health</td></td>	<td> Chronic Effects on Humans: CARCINOGENIC EFFECTS: A4 (Not classifiable for human or apimal.) by ACGIH, 3 (Not classifiable for human) by IARC. May cause damage to the following organs: blood, kidneys, the nervous system, liver, brain, central nervous system (CNS). Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Special Remarks on Toxicity to Animals: Lowest Published Lethal Dose: LDL (Human) - Route: Oral; Dose: 50 mg/kg LCL [Rabbit] - Route: Inhalation; Dose: 55000 ppm/40min Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Splash contact with eyes also causes conjunctivitis, blepharospam, comeal advaisons. This usually resolves in 2 days. 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Chronic Potential Health Effects: Inhalation and Ingestion: Prolonged or repeated exposure via inhalation may cause central nervous system and cardiovascular symptoms similar to that of acute inhalation. Chronic Potential Health</td>	 Chronic Effects on Humans: CARCINOGENIC EFFECTS: A4 (Not classifiable for human or apimal.) by ACGIH, 3 (Not classifiable for human) by IARC. May cause damage to the following organs: blood, kidneys, the nervous system, liver, brain, central nervous system (CNS). Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Special Remarks on Toxicity to Animals: Lowest Published Lethal Dose: LDL (Human) - Route: Oral; Dose: 50 mg/kg LCL [Rabbit] - Route: Inhalation; Dose: 55000 ppm/40min Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Splash contact with eyes also causes conjunctivitis, blepharospam, comeal advaisons. This usually resolves in 2 days. Inhalation: Inhalation of vapor may cause respiratory tract irritation causing coughing and wheezing, and nasal discharge. Inhalation of high concentrations may affect behavior and cause central nervous system effects on an Anasad or decreased or decreased blood pressure, dysrhythmia,), respiration (acute pulmonary edema, respiratory depression, annea, asphyxia), cause vision disturbances and diated pupils, and cause loss of appetite. Ingestion: Aspiration Aspiration, Fred ackard, aphrotany, increased or decreased blood pressure, dysrhythmia,), respiration (acute pulmonary edema, respiratory depression, apnea, asphyxia), cause vision disturbances and dilated pupils, and cause loss of appetite. Ingestion: Aspiration Asard. Aspiration and wase, vomiting, pain. May have effects similar to that of acute inhalation. Chronic Potential Health Effects: Inhalation and Ingestion: Prolonged or repeated exposure via inhalation may cause central nervous system and cardiovascular symptoms similar to that of acute inhalation. Chronic Potential Health
DSCL (EEC): R11- Highly flammable. R20- Harmful by inhelation. S16- Keep away from sources of ignition – No smoking. S25- Avoid contact with eyes. S29- Do not empty into drains. S30- Take precautionary measures against static discharges. HMIS (U.S.A): Health Hazard: 2 Fire Hazard: 3 Personal Protection: h National Fire Protection Association (U.S.A.): Health: 2 Flammability: 3 Flaeativity: 0 Specific hazard:	12. Ecological Information Ecotoxicity: Ecotoxicity in water (LC50): 313 mg/l 48 hours [Daphnia (daphnia)]. 17 mg/l 24 hours [Fish (Blue Gill)]. 13 mg/l 96 hours [Fish (Blue Gill)]. 56 mg/l 24 hours [Fish (Fathead minnow)]. 34 mg/l 96 hours [Fish (Fathead minnow)]. 56.8 ppm any hours [Fish (Goldfish)]. BOD5 and COD: Not available. Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation of calcium sulfate are less toxic than the product itself. Special Remarks on the Products of Biodegradation: Not available. 13. Disposal Considerations Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.	

ADHESIVE	Material Safety Data Sheet Product name: WB800	ADHESIVE	Material Safety Data Shee Product name: WB80
Critical Temperature: Not available. Specific Gravity: 0.929 (Water = 1)		non-combustible material. Do not get water insi basements or confined areas: dike if needed. C	s of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other ide container. Do not touch spilled material. Prevent entry into sewers, sall for assistance on disposal. Be careful that the product is not present at a
/apor Pressure: 3.8kPa (@25 deg C)		concentration level above TLV. Check TLV on t	the MSDS and with local authorities.
apor Density: 3.1 (Air=1).		7. Handling and Storage	
olatility: Not available.		Precautions: Keep away from heat. Keep awa ingest. Do not breathe gas/fumes/ vapor/spray.	y from sources of ignition. Ground all equipment containing material. Do not Wear suitable protective clothing. In case of insufficient ventilation, wear
dor Threshold: Not available.			k medical advice immediately and show the container or the label. Avoid
ater/Oil Dist. Coeff.: Not available.			area. Keep container in a cool, well-ventilated area. Keep container tightly
nicity (in Water): Not available.		closed and sealed until ready for use. Avoid all	possible sources of ignition (spark or flame).
ispersion Properties: Not available.		8. Exposure Controls/Personal Pro	tection
Solubility: Soluble in diethyl ether, acetone. Yratically insoluble in cold water. Soluble in ethanol, benzene, chloroform, glacial aceti	c acid, carbon disulfide.	Engineering Controls: Provide exhaust ventilation or other engineering threshold limit value. Ensure that eyewash stati Personal Protection:	g controls to keep the airborne concentrations of vapors below their respectiv ions and safety showers are proximal to the work-station location. sure to use an approved/certified respirator or equivalent. Gloves.
0. Stability and Reactivity Data		Personal Protection in Case of a Large Spill	
Stability: The product is stable.		Splash goggles. Full suit. Vapor respirator. Boc inhalation of the product. Suggested protective	ots. Gloves. A self contained breathing apparatus should be used to avoid clothing might not be sufficient; consult a specialist BEFORE handling this
nstability Temperature: Not available.		product.	
conditions of Instability: Heat, ignition sources (flat	nes, sparks, static), incompatible materials	Exposure Limits:	SHA /DEL) [] Inited States]
compatibility with various substances: Reactive	with oxidizing agents.	TWA: 200 STEL: 500 CEIL: 300 (ppm) from OS TWA: 50 (ppm) from ACGIH (TLV) [United Stat	tes] SKIN
orrosivity: Non-corrosive in presence of glass.		TWA: 100 STEL: 150 from NIOSH [United Stat TWA: 375 STEL: 560 (mg/m3) from NIOSH [Ur Consult local authorities for acceptable exposu	esj nited States]
rozen Bromine Trifluoride reacts violently with Tolue	sodium difluoride, Tetranitromethane, Uranium Hexafluoride. ne at -80 deg C. o form nitrotoluene, nitrobenzene, and nitrophenol and halogenated	Consult local authorities for acceptable exposu 9. Physical and Chemical Propertie Physical state and appearance: Yellow visco	S
ipecial Remarks on Corrosivity: Not available.		Odor: Mixed hydrocarbon odour.	
olymerization: Will not occur.		Taste: Not available.	
		Molecular Weight: Not available.	
1. Toxicological Information outes of Entry: Absorbed through skin. Eye contact	t Inhalation Indestion	Color: Yellow	
	t, minaranoti, migosuoti,	pH (1% soln/water): Not available.	
oxicity to Animals: /ARNING: THE LC50 VALUES HEREUNDER ARE cute oral toxicity (LD50): 636 mg/kg [Rat].	ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.	Boiling Point: 70 deg C.	
cute oral toxicity (LD50): 636 mg/kg [Hat]. cute dermal toxicity (LD50): 14100 mg/kg [Rabbit]. cute toxicity of the vapor (LC50): 440 24 hours [Mou		Melting Point: Not available.	

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



Sika® Aktivator-100		JIKa	Sika [®] Aktivator-100		
Version 0.0	SDS Number: 000000033123	Revision Date: 14.10.2018	Version 0.0	SDS Number: 000000033123	Revision Date:
Date format	: dd.mm.yyyy				
the time of publication.	hed in this Safety Data Sheet corresponds to our All warranties are excluded. Our most current G e consult the product data sheet prior to any use	ieneral Sales Condi-	14. TRANSPORT INFORMATION		
			UNRTDG UN number Proper shipping name Class Packing group Labels IATA-DGR UN/ID No. Proper shipping name Class	UN 1866 RESIN SOLUTION 3 II 3 UN 1866 Resin solution 3	
			Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	II Flammable Liquids 364 353	
			IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	UN 1866 RESIN SOLUTION (n-heptane) 3 II 3 F-E, S-E Yes	
			Transport in bulk according Not applicable for product as	to Annex II of MARPOL 73/78 and the supplied.	IBC Code
			based upon the properties of t	provided herein are for informational pur the unpackaged material as it is describe cations may vary by mode of transportation	d within this Safety Data
			15. REGULATORY INFORMATIO	N	
			ture Workplace Safety and Healt		h (General Provisions) and other requirements
			16. OTHER INFORMATION		

SAFETY DATA SHEET		SAFETY DATA SHEET	
Sika® Aktivator-100	Jika®	Sika® Aktivator-100	Jil
Version 0.0	SDS Number: 000000033123 Revision Date: 14.10.2018	Version 0.0	SDS Number: 000000033123 Revision Date: 14.
Respiratory or skin sensitisa Skin sensitisation: May cause	an allergic skin reaction.	Water solubility	: insoluble
Respiratory sensitisation: Not Germ cell mutagenicity	classified based on available information.	Partition coefficient: n- octanol/water	: No data available
Not classified based on availa	ble information.	Auto-ignition temperature	: No data available
Carcinogenicity Not classified based on availa	ole information.	Decomposition temperature	: No data available
Reproductive toxicity Not classified based on availa	ble information.	Viscosity Viscosity, dynamic	: No data available
STOT - single exposure May cause drowsiness or dizz	ines	Viscosity, kinematic	: < 20.5 mm2/s (40 °C)
STOT - repeated exposure	nicos.	Explosive properties	: No data available
Not classified based on availa Aspiration toxicity	ble information.	Molecular weight	: No data available
May be fatal if swallowed and	enters airways.	10. STABILITY AND REACTIVITY	
12. ECOLOGICAL INFORMATION		Reactivity	: No dangerous reaction known under conditions of normal use.
Ecotoxicity		Chemical stability	: The product is chemically stable.
No data available Persistence and degradabili	ty	Possibility of hazardous reac- tions	: Stable under recommended storage conditions. Vapours may form explosive mixture with air.
No data available Bioaccumulative potential		Conditions to avoid	: Heat, flames and sparks.
No data available		Incompatible materials	: No data available
Mobility in soil No data available		Hazardous decomposition products	: methanol
Other adverse effects		11. TOXICOLOGICAL INFORMAT	10N
Product:			
Additional ecological infor- mation	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	Acute toxicity Not classified based on availal	ble information.
	Toxic to aquatic life with long lasting effects.	Components:	
13. DISPOSAL CONSIDERATION	S	N-(3-(trimethoxysilyl)propyl) Acute oral toxicity	ethylenediamine: : LD50 Oral (Rat): ca. 2,400 mg/kg
Disposal methods		Acute inhalation toxicity	: LC50: 1.49 mg/l Exposure time: 4 h
Waste from residues	The product should not be allowed to enter drains, water courses or the soil.		Test atmosphere: dust/mist
	Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company.	Acute dermal toxicity	: LD50 Dermal (Rat): > 2,000 mg/kg
Contaminated packaging	: Empty remaining contents.	Skin corrosion/irritation Causes skin irritation.	
	Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.	Serious eye damage/eye irrit Causes serious eye irritation.	tation
-	8/10		7/10

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

Revision Date: 14.10.2018

Sika® Aktivator-100		Jika®	Sika® Aktivator-100			
Version 0.0	SDS Number: 000000033123	Revision Date: 14.10.2018	Version 0.0	SDS Numbe	r: 000000033123	
Hand protection	: Chemical-resistant, impervious glove proved standard should be worn at al chemical products if a risk assessment essary.	all times when handling		For person Persons wi ma, allergie	es, chronic or rec	
Eye protection	: Safety eyewear complying with an approved standard should Smoking, eating and drinkin plication area. Take precautionary measure Take precautionary measure			-		
Skin and body protection	: Choose body protection in relation to tration and amount of dangerous sub- cific work-place.	its type, to the concen- stances, and to the spe-		Open drum Take neces (which mig	n carefully as con ssary action to av ht cause ignition	itent may be under void static electricit of organic vapours easures when hand
Hygiene measures	: Handle in accordance with good indu practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the		Conditions for safe storage	products : Store in ori Store in co Keep in a v Containers	iginal container. ol place. well-ventilated pla s which are opene	ace. ed must be carefull
9. PHYSICAL AND CHEMICAL PR	OPERTIES			Observe la	t to prevent leaka bel precautions. cordance with loo	
Appearance	: liquid		12			
Colour	: colourless		8. EXPOSURE CONTROLS/PER	SONAL PROTE	CTION	
Odour	: hydrocarbon-like		Components with workplace	e control parar	neters	
Odour Threshold	: No data available		Components	CAS-No.	Value type	Control parame
рН	: No data available				(Form of exposure)	ters / Permissil concentration
Melting point/range / Freezing	: No data available		ethanol	64-17-5	PEL (long term)	1,000 ppm 1,880 mg/m3
point				_	TWA STEL	1,000 ppm 1,000 ppm
Boiling point/boiling range	: ca. 78 °C (172 °F)		Occupational exposure lim	its of decompo		1,000 pp11
Flash point	: ca4 °C (25 °F) Method: closed cup		Components	CAS-No.	Value type (Form of exposure)	Control parame ters / Permissil concentration
Evaporation rate	: No data available		methanol	67-56-1	PEL (long	200 ppm 262 mg/m3
Flammability	: No data available				term) PEL (short term)	250 ppm 328 mg/m3
Upper explosion limit	: 7 %(V)			+	TWA STEL	200 ppm 250 ppm
Lower explosion limit	: 0.6 %(V)		Personal protective equipm	nent		
Vapour pressure	: 75.9935 hPa (57.000 mmHg)		Respiratory protection	: Use respiration	atory protection u	inless adequate loc posure assessmen
Relative vapour density	: No data available			that expose The filter cl	ures are within re lass for the respir	commended exposi rator must be suital
Density	: ca. 0.727 g/cm3 (20 °C (68 °F) ())			(gas/vapou dling the pr	roduct. If this con	lates) that may aris centration is excee
Solubility(ies)				contained l	breathing appara	tus must be used.

SC Auto (Myanmar) Co., Ltd.

14.10.201

Sika® Aktivator-100		alla o	Sika® Aktivator-100			
	SDS Number: 000000033123	Revision Date: 14.10.2018				
Version 0.0		Revision Date: 14, 10, 2016	Version 0.0	SDS Number: 0	00000033123	Revisio
Notes to physician	: Treat symptomatically.		3. COMPOSITION/INFORM	ATION ON INGREDIEN	TS	
5. FIREFIGHTING MEASURES			Substance / Mixture	: Mixture		
Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		Hazardous componen Chemical name		CAS-No.	Concentrat
Unsuitable extinguishing media	: Water High volume water jet		Naphtha (petroleum), hy boiling point hydrogen ti ethanol	drotreated light; Low eated naphtha	64742-49-0 64-17-5	>= 70 -
Specific hazards during fire- fighting	: Do not use a solid water stream as it may fire	scatter and spread	tris(dodecylbenzenesulp olato)titanium N-(3-(trimethoxysilyl)pro	6 M	61417-55-8 1760-24-3	>= 1 -
nginnig	Do not allow run-off from fire fighting to en courses.	ter drains or water		-,,,	1	
Hazardous combustion prod- ucts	: No hazardous combustion products are kn	Iown	4. FIRST AID MEASURES General advice	: Move out of c	langerous area	
Specific extinguishing meth-	: Use water spray to cool unopened contain Collect contaminated fire extinguishing wa		Contraction	Consult a phy		doctor in attendand
ods	must not be discharged into drains. Fire residues and contaminated fire exting be disposed of in accordance with local res	uishing water must	If inhaled	: Move to fresh Consult a phy	n air. /sician after significant	t exposure.
Special protective equipment for firefighters	: In the event of fire, wear self-contained bre		In case of skin contact	Wash off with	: Take off contaminated clothing and shoes immediatel Wash off with soap and plenty of water. If symptoms persist, call a physician.	
6. ACCIDENTAL RELEASE MEAS			In case of eye contact	: Immediately f Remove cont	flush eye(s) with plenty	y of water.
Personal precautions, protec-	: Use personal protective equipment.			Keep eye wic	Kene eye wide open while rinsing. If eye irritation persists, consult a specialist.	
tive equipment and emer- gency procedures	Remove all sources of ignition. Deny access to unprotected persons.		If swallowed	Do NOT indu Do not give n	Clean mouth with water and drink afterwards plenty of Do NOT induce vomiting. Do not give milk or alcoholic beverages.	
Environmental precautions	: Prevent product from entering drains. If the product contaminates rivers and lake	es or drains inform		Take victim in	Never give anything by mouth to an unconscious per Take victim immediately to hospital.	
Methods and materials for	respective authorities. Contain spillage, and then collect with non-	-combustible ab-	Most important symptor and effects, both acute delayed	and irritant effects sensitising eff	fects	
containment and cleaning up	sorbent material, (e.g. sand, earth, diatoma miculite) and place in container for disposa / national regulations (see section 13).	aceous earth, ver-		Allergic reacti Excessive lac Dermatitis	chrymation	edema and pneum
7. HANDLING AND STORAGE				Loss of balan Vertigo See Section	ice 11 for more detailed in	formation on healt
Advice on protection against fire and explosion	: Use explosion-proof equipment. Keep awa heat/sparks/open flames/hot surfaces. No cautionary measures against electrostatic	smoking. Take pre-		and symptom May be fatal i Causes skin i	ns. if swallowed and enter	rs airways.
Advice on safe handling	 Do not breathe vapours or spray mist. Avoid exceeding the given occupational exsection 8). 	xposure limits (see		Causes serio	us eye irritation. rowsiness or dizziness	
	4/10		-	3/1	0	

SAFETY DATA SHEET		SAFETY DATA SHEET		
Sika® Aktivator-100	Jika®	Sika® Aktivator-100		Jik
Version 0.0	SDS Number: 000000033123 Revision Date: 14.10.2018	Version 0.0	SDS Number: 000000033123	Revision Date: 14.1
	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.	1. PRODUCT AND COMPANY ID	ENTIFICATION	
	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.	Product name	Sika® Aktivator-100	
	H411 Toxic to aquatic life with long lasting effects.	Product code	: 000000033123	
Precautionary statements	: Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.	Type of product	: liquid	
	P233 Keep container tightly closed.	Recommended use of the ch	nemical and restrictions on use	
	P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equip- ment.	Product use	: Pretreatment agent	
	P242 Use only non-sparking tools.	Manufacturer or supplier's d	etails	
	P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.	Company	: SIKA (SINGAPORE) PTE LTD. 66A Sungei Kadut Street 1	
	P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of		Singapore 729368	
	the workplace.	Telephone	: +65 63680883	
	P273 Avoid release to the environment.	Telefax	: +65 6779 6200	
	P280 Wear protective gloves/ eye protection/ face protection.	E-mail address	· ·	
	Response:	Emergency telephone num-	: +65 63680883	
	P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.	ber		
	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediate- ly all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312 IF INHALED. Remove person to fresh air	2. HAZARDS IDENTIFICATION		
	and keep comfortable for breathing. Call a POISON	GHS Classification		
	CENTER/doctor if you feel unwell.	Flammable liquids	: Category 2	
	P305 + P351 + P338 F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Skin corrosion/irritation	: Category 2	
	P331 Do NOT induce vomiting. P333 + P313 If skin irritation or rash occurs: Get medical ad- vice/-attention.	Serious eye damage/eye irri- tation	: Category 2	
	P337 + P313 If eye irritation persists: Get medical advice/ at- tention.	Skin sensitisation	: Category 1	
	P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or	Specific target organ toxicity - single exposure	: Category 3 (Central nervous system)	
	alcohol-resistant foam to extinguish. P391 Collect spillage.	Aspiration hazard	: Category 1	
	Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed.	Long-term (chronic) aquatic hazard	: Category 2	
	P403 + P235 Store in a well-ventilated place. Keep cool.	GHS label elements		
	P405 Store locked up.	Hazard pictograms		
	Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.	Hazard pictograms		
Other hazards which do no None known.	t result in classification	Signal word	: Danger	
None Kilown.		Hazard statements	: H225 Highly flammable liquid and vapou	r.
	2/10		1/10	

Stake Primer-206 G+P Version 1.0 SDS Number: 00000020203 Revision Date: 14.10.2019 Special precautions for user Revision Date: 14.10.2019 Special precautions for synchrodied herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations inregional or country regulations. Stafety, health and environmental regulations/legislation specific for the substance or mixture Surplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in exotremental Protection and Management Act and is locyanates Environmental Protection and Management (Hazard-use Substances) Regulations Unternet IProtection and Management (Hazard-use Substance) Regulations use Substances) Regulations Date format Material Protection and Management (Hazard-use Substance) Regulations Date format Sing Substances) Regulations Date format Stafety Protection and Management (Hazard-use Substance) Regulations Date format Sing Substances) Regulations Date format Stafety Protection Advances are excluded. Our most current General Sales Conditors shall apply. Please consult the product da	Sika® Primer-206 G+P Version 1.0 Other adverse effects Product: Additional ecological information 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	: There is no data available for this product.
Special precautions for user The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations. 15. REGULATORY INFORMATION Safety, health and environmental regulations/legislation specific for the substance or mixture Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations. Environmental Protection and Management Act and is locyanates Environmental Protection and Management (Hazard-ous Substances) Regulations. 16. OTHER INFORMATION Date format : dd.mm.yyyy The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Condi-	Other adverse effects Product: Additional ecological infor- mation 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	 There is no data available for this product. S Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations. 15. REGULATORY INFORMATION Safety, health and environmental regulations/legislation specific for the substance or mixture Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations I6. OTHER INFORMATION Date format : dd.mm.yyyy The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Condi-	Product: Additional ecological infor- mation. 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	 S Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
based upon the properties of the unpackaged material as it is described within this Safety Data Sheet: Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations. 15. REGULATORY INFORMATION Safety, health and environmental regulations/legislation specific for the substance or mixture Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations 16. OTHER INFORMATION Date format : dd.mm.yyyy The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Condi-	Additional ecological infor- mation 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	 S Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Safety, health and environmental regulations/legislation specific for the substance or mixture Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and : Isocyanates Environmental Protection and Management (Hazard-ous Substances) Regulations 16. OTHER INFORMATION Date format : dd.mm.yyyy The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Condi-	Disposal methods Waste from residues Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	 Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
ture Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and :: Isocyanates Environmental Protection and Management (Hazard- ous Substances) Regulations. 16. OTHER INFORMATION Date format :: dd.mm.yyyy The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Condi-	Disposal methods Waste from residues Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	 Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations : Isocyanates 16. OTHER INFORMATION	Waste from residues Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	cal or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations : Isocyanates 16. OTHER INFORMATION	Contaminated packaging 14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	cal or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Environmental Protection and Management (Hazard- ous Substances) Regulations	14. TRANSPORT INFORMATION International Regulations UNRTDG UN number	Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Date format : dd.mm.yyyy The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Condi-	International Regulations UNRTDG UN number	. 1814926
The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Condi-	UNRTDG UN number	1014026
the time of publication. All warranties are excluded. Our most current General Sales Condi-	UN number	1014062
	Proper shipping name Class Packing group Labels IATA-OOR UN/ID No. Proper shipping name Class Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) IMDG-Code UN number Proper shipping name Class Packing group	RESIN SOLUTION 3 3 1 1 3 UN 1866 Resin solution 3 II Flammable Liquids S64 353 UN 1866 RESIN SOLUTION 3 I
	Labels EmS Code Marine pollutant	: 3 F-E, S-E : no to Annex II of MARPOL 73/78 and the IBC Code

Sika® Primer-206 G+P		<i>Jika</i> ®	Sika® Primer-206 G+P		ſi
Version 1.0	SDS Number: 000000020203	Revision Date: 14.10.2018	Version 1.0	SDS Number: 00000020203	Revision Date: 14
Serious eye damage/eye irritation.	ation			Avoid moisture.	
Respiratory or skin sensitisa Skin sensitisation: May cause a			Incompatible materials	: Strong acids and strong bases Oxidizing agents Peroxides	
Germ cell mutagenicity	1. The Property Alterna		No decomposition if stored a	and applied as directed.	
Not classified based on availab Carcinogenicity			11. TOXICOLOGICAL INFORMA	ATION	
Not classified based on availab Reproductive toxicity Not classified based on availab			Acute toxicity Not classified based on avail	lable information.	
STOT - single exposure May cause drowsiness or dizzin STOT - repeated exposure			<u>Components :</u> ethyl acetate: Acute oral toxicity	: LD50 Oral (Rat): > 5,000 mg/kg	
Not classified based on availab Aspiration toxicity			Acute inhalation toxicity	: LC50 (Rat): ca. 1,600 mg/l Exposure time: 4 h Test atmosphere: vapour	
Not classified based on availab Further information	vie information.		Acute dermal toxicity	: LD50 Dermal (Rabbit): > 5,000 mg/kg	
Product: Remarks: Toxicology data for th	he components		Hexamethylene diisocyana Acute oral toxicity	ate, oligomers: : LD50 Oral (Rat): > 5,000 mg/kg	
Information given is based on o Based on available data, the cl	data on the components and the toxicolo	gy of similar products.	Acute inhalation toxicity	: Acute toxicity estimate: 1.5 mg/l Test atmosphere: dust/mist Method: Expert judgement	
12. ECOLOGICAL INFORMATION			tris(p-isocyanatophenyl) th Acute oral toxicity	hiophosphate: : LD50 Oral (Rat): > 675 mg/kg Remarks: see user defined free text	
Ecotoxicity <u>Components:</u> Hexamethylene diisocyanate	olizomere		Acute inhalation toxicity	: LC50 (Rat): 5.721 mg/l Exposure time: 4 h	
Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 10 Exposure time: 96 h	0 mg/l		Test atmosphere: dust/mist	
Toxicity to daphnia and other	: EC50 (Daphnia magna (Water flea)):	> 100 mg/l	n-butyl acetate: Acute oral toxicity	: LD50 Oral (Rat): > 5,000 mg/kg	
aquatic invertebrates n-butyl acetate: Toxicity to algae	Exposure time: 48 h : EC50 (Desmodesmus subspicatus (green algae)): 647.7 mg/l	Acute inhalation toxicity	: LC50 (Rat): 23.4 mg/l Exposure time: 4 h Test atmosphere: vapour	
	Exposure time: 72 h		Acute dermal toxicity	: LD50 Dermal (Rabbit): > 5,000 mg/kg	
Persistence and degradabilit No data available	У		2-methoxy-1-methylethyl a Acute oral toxicity	cetate: : LD50 Oral (Rat): > 5,000 mg/kg	
Bioaccumulative potential No data available			Acute dermal toxicity	: LD50 Dermal (Rabbit): > 5,000 mg/kg	
Mobility in soil No data available			Skin corrosion/irritation Not classified based on avail	lable information.	
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SAFETY DATA SHEET			SAFETY DATA SHEET				
ika® Primer-206 G+P		Jika	Sika [®] Primer-206 G+P				Ji
/ersion 1.0	SDS Number: 00000020203	Revision Date: 14.10.2018	Version 1.0	SDS Number:	00000020203	Rev	ision Date: 14
pН	: ca. 7		8. EXPOSURE CONTROLS/PERS	ONAL PROTEC	TION		
Melting point/range / Freezing point	: No data available		Components with workplace	e control param	Value type	Control parame-	Basis
Boiling point/boiling range	: > 77 °C (> 171 °F)				(Form of exposure)	ters / Permissible concentration	
Flash point	: -4 °C (25 °F) Method: closed cup		ethyl acetate	141-78-6	PEL (long term) TWA	400 ppm 1,440 mg/m3 400 ppm	SG OEL
Evaporation rate	: No data available		n-butyl acetate	123-86-4	PEL (long term)	150 ppm 713 mg/m3	SG OEL
Flammability	: No data available				PEL (short term) TWA	200 ppm 950 mg/m3	SG OEL
Upper explosion limit	: 11.5 %(V)				STEL	50 ppm 150 ppm	ACGIH
			Personal protective equipm	ent			
Lower explosion limit	: 2.1 %(V)		Respiratory protection	: Use respirat		nless adequate local e	
Vapour pressure Relative vapour density	: 99.9915 hPa (75.000 mmHg) : No data available			that exposu	res are within red	osure assessment de commended exposure ator must be suitable f	guidelines.
Density	: ca. 1.02 g/cm3 (20 °C (68 °F) ())			imum expect (gas/vapour dling the pro	ted contaminant /aerosol/particula oduct. If this cond		hen han-
Solubility(ies) Water solubility	: insoluble		Hand protection	: Chemical-re	esistant, impervio	us must be used. us gloves complying v vorn at all times when	
Partition coefficient: n- octanol/water	: No data available					ssessment indicates th	
Auto-ignition temperature	: No data available		Eye protection			ith an approved stand ment indicates this is r	
Decomposition temperature	: No data available						
Viscosity Viscosity, dynamic	: ca. 10 mPa.s (20 °C)		Skin and body protection		amount of dange	elation to its type, to th rous substances, and	
Viscosity, kinematic	: No data available			i Llandle in e	anardanaa with a	and industrial business	and onfohr
Explosive properties	: No data available		Hygiene measures	practice. When using	do not eat or dri	lood industrial hygiene ink.	and salety
Molecular weight	: No data available				do not smoke. s before breaks a	and at the end of work	day.
10. STABILITY AND REACTIVITY			9. PHYSICAL AND CHEMICAL P	ROPERTIES			
Reactivity	: No dangerous reaction known under condition	ons of normal use.	Appearance	: liquid			
Chemical stability	: The product is chemically stable.		Colour	: black			
Possibility of hazardous reac- tions	: Stable under recommended storage conditio Vapours may form explosive mixture with air		Odour	: ester-like			
Conditions to avoid	: Heat, flames and sparks.		Odour Threshold	: No data av	ailable		
	6/10			5/	10		

Address on safe handling On all performance and performance and all performance and performance and performance and all performance and performance andifference andiffered andifference and performance and performance	SAFETY DATA SHEET		C1	SAFETY DATA SHEET		1
Control Understand Understand Understand Understand Special probative equipment In the event of fire, wear self-contained breaking apparatus. Image: Control of Contained Conta	Sika® Primer-206 G+P		Jika®	Sika® Primer-206 G+P		
Control	Version 1.0	SDS Number: 00000020203	Revision Date: 14.10.2018	Version 1.0	SDS Number: 000000020203	Revision Date: 1
Control	Special protective equipment	: In the event of fire, wear self-contained br	eathing apparatus.			
6. Accident AL, RELEASE MEASURES Consult a physician Consult a physician date significant exposure. Exercise and entering physician Exercise and explosion Exercise and exp		19	5 - 11	4. FIRST AID MEASURES		
Personal presultions, prote- gency procedures Use exploring incretible equipment. Being address Work to fresh at: Consult a spherican attemption (address) Environmental precations : Person protection explored address : The end of consult (address) : The end of consult (address) Environmental precations : Person protection explored address : The end of consult (address) : The end of consult (address) : The end (address) Environmental precations : Person protection adjust (address) : The end (address) : The end (address) : The end (address) : The end (address) : : The end (address) :	6. ACCIDENTAL RELEASE MEAS	GURES		General advice	Consult a physician.	
gency procedures Deny access to unprotected persons. Consult a physician after significant exposure. Environmental precautions Pevert product from entering drains. If the product contaminates shorts and lakes of drains inform metabols and materials form. In case of skin contact. Take of contaminates shorts persist, call a physician threadow and materials form. Methods and materials form. Contain tage shorts and the collect with non-combustible ab- containment and cleaning up includes in an obsert material, (is and, est), call contained shorts affect and containment and cleaning up includes in an operation for disposal according to local in case of skin contact. In case of skin contact. In case of skin contact. In case of skin contact. Audice on safe shandling Contain tage sharts affect sharts and physician measures against electrostatic discharges. In case of skin contact. Audice on safe shandling Contain tread sharts and sharts and calcin any measures against electrostatic discharges. In case of skin contact. In case of skin c					Show this safety data sheet to the doc	tor in attendance.
Environmental precautions : Prevent product from entering drams. Her product commentation product from entering drams. Her product commandes news and lakes or drains inform respective authorities. Methods and materials for contain splanes and then collect with non-combustite ab- sorbert material. (e.g. sand then collect with non-combustite ab- could be product from all the sand then collect with non-combustite ab- could be product from all the sand then collect with non-combustite ab- could be product from all the sand then collect with non-combustite ab- could be product from all the sand then collect with non- could be product from all then then then be being and efficite. Sond a collect with motor respective ab- sond time approace material that discharge the non-sand product non-mather that discharge the non-sand product non-mather that discharge the non-sand product non-mather matherial the collecting and efficite. Sond all the sand the non-matherial product and efficite. Sond all container: Store in no collectioner: Store in no collectioner. Store in no collectioner				If inhaled		
Environmental precultions Present product from entering drains if the product one states or drains inform respective authorities. Wash of with seap and petry of water. Methods and materials for containment and clearing up containment and clearing up contrainment and clearing up containment and clearing up contrearing up clearing up clearing up clearing	gency procedures	Deny access to unprotected persons.			Consult a physician after significant ex	posure.
Incespective authorities. In case of eye contact Remove contact Remove contact Remove contact In case of eye contact Remove contact In case of eye contact Remove contact In case of eye contact In case of eye contact In case of eye contact Remove contact In case of eye contact In case	Environmental precautions			In case of skin contact	Wash off with soap and plenty of wate	oes immediately. r.
Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible ab- sorbert material, (e.g. sand, esth, (adomacous esth, ver- sorbert material, (e.g. sand, esth, (adomacous esth), ver- sorbert material, (e.g. sand, esth, (adomacous esth), ver- sorbert material, (e.g. sand, esth, (adomacous esth), ver- sorbert material, (e.g. sand, esth, (adomacous esth), fire and esphosion 7. HANDLING AND STORAGE				In case of eve contact	Immediately flush eve(s) with plenty of	water
containment and cleaning up sorbert material, (e.g. sand, earth, diatomaceus earth, vermiculite) and place in ontainer of disposal according to local // national regulations (see section 13). If eye inflation persists, consult a pecialist. r. HANDLING AND STORAGE .	Martha da anat			in case of eye conduct	Remove contact lenses.	
T. HANDLING AND STORAGE Do not grow mike or alcoholic beverages. Advice on protection against: if use explosion-proof equipment. Keep away from heat/spackopen flames/hot surfaces. No smoking. Take pre-cautionary measures against electrostatic discharges. Most important symptoms surfaces in account to an unconscious person. Advice on safe handling Do not tage in eyes, on skin, or on clothing. For personal protection see section 8. Do not get in eyes, on skin, or on clothing. For personal protection see section 8. See Section 11 for more detailed information on health effects and symptoms. Beersons with a history of skin sensitisation problems or asth-may allergic skin neaction. Causes serious eye inflation. Rootanees and spread in the optimized information on districe electricity discharge Open drum carefully as content may be under pressure. Take necessary action to avoid statice electricity discharge Open drum carefully as content may be under pressure. Take necessary action to avoid statice electricity discharge Open drum carefully as content may be under pressure. Take necessary action to avoid statice electricity discharge Open drum carefully resealed and keep Longth to prever licksage. Observe label precautions. Store in accordance with local regulations. Suitable extinguishing media Actional water stream as it may scatter and spread fire. Conditions for safe storage Store in accordance with local regulations. Specific hazards during free- ingt. Do not use a solid water stream as it may scatter and spread fire. Conditions for safe storage Store in accordance with local regulations. Specific hazards duri		sorbent material, (e.g. sand, earth, diatom miculite) and place in container for dispos	aceous earth, ver-		If eye irritation persists, consult a spec	
Advice on protection against : Use explosion-proof equipment. Keep away from heat/sparkslopen flames/hot suffaces. No smoking, Take pre- cationary measures against electrostatic discharges. Advice on safe handling : Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 10, Do not get le process in which this; or soft in services against static discharges. Most important symptoms and effects, both acule and delayed : Initiant effects Allergic reactions Descendentation. Advice on safe handling : Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 10, Do not get le process in which this inclure is being used. Most important symptoms and effects, both acule and delayed Advice on safe handling : Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 10, De not get le process in which this inclure is being used. Most important symptoms and effects, both acule and May cause drowsiness or dizzness. Conditions for safe storage : Store in accingnal container. Store in ocip place. Keep in a vell-ventilated place. Containers which are opened must be carefully resealed and key turpit to prevent leakage. Observe label precautions. : Water High volume water jet Specific hazards during free. Conditions for safe storage : Store in accordance with local regulations. : Store in accordance with local regulations. : Specific hazards during free. : Do not use a solid water		/ national regulations (see section 13).		If swallowed	Do not give milk or alcoholic beverage Never give anything by mouth to an ur	S.
fire and explosion heat/spirks/open flame/shot surfaces. No simoking. Take pre- cautionary measures against electrostatic discharges. Advice on safe handling : Do not breath evapours or spray mist. Avoid exceeding the given cocupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For presonal protection escention 8. Persons with a history of skin sensitisation problems or asth- ma, allergies, chronic or recurrent registratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the ap- plication area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which muraefully as content may be under pressure. Take necessary action to avoid static electricity discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which muraefully as content may be under pressure. Take necessary action to avoid static electricity discharge. Conditions for safe storage : Store in original container. Store in cool place. Keep in a vell-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precaulons. Store in accordance with local regulations. : Water High volume water jet iszardous combustion products are known uds	7. HANDLING AND STORAGE				Obtain medical attention.	
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Avoid exceeding the given occupational exposure limits (see section 8). Vertigo Vertigo Do not get in eyes, on skin, or on clothing. For personal protection see section 8. See Section 11 for more detailed information on health effects and symptoms. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Notes to physician Test symptomatically. Simoking, eating and drinking should be prohibited in the application area. Simoking, eating and drinking should be prohibited in the application area. Notes to physician Test symptomatically. Simoking, eating and drinking should be prohibited in the application area. Simoking, eating and drinking should be prohibited in the application area. Notes to physician Test symptomatically. Conditions for safe storage Store in original container. Store in cool place. Suitable extinguishing media Alcohol-resistant foam carbon dioxide (CO2) Dry ohemical Unsuitable extinguishing Water High volume water jet Specific hazards during fire- Do not use a solid water stream as it may scatter and spread fighting Store in accordance with local regulations. Store in accordance with local regulations. Specific hazards during fire- No hazardous combustion products are known ucts Specific extinguishing meth- Use	Advice on safe handling	. Do not broathe vaneurs or sprav mist				
Do not get in eyes, on skin, or on oldtning. For personal protection see scion 8. Persone with a history of skin sensitiation problems or asth- ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the ap- plication area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take precaution container. Take precaution of organic vapours). Follow standard thygiene measures when handling chemical productsNotes to physicianTreat symptoms. May cause and lergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.Conditions for safe storageStore in original container. Store in col place. Keep in a well-ventilated place. Containers which ne depended must be carefully resealed and kept upright to prevent leakage. Observe label precautions.Store in accordance with local regulations.No tas and symptoms. May cause and lergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.Conditions for safe storageStore in col place. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.Water High volume water jet.Store in accordance with local regulations.Specific extinguishing meth- action in accordance with local regulations.Do not use a solid water stream as it may scatter and spread fightingWater High to prevent leakage. Observe label precautions.Water High volume water jet.Do not use a solid water stream as it may scatter and spread fightingKeep in a well-vent	Advice on sale handling		xposure limits (see			
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Observe label precautions. Hazardous combustion products are known ucts Store in accordance with local regulations. Specific extinguishing meth- ods Store in accordance with local regulations. Use water spray to cool unopened containers. ods		Containers which are opened must be car	efully resealed and			and sound and oproad
ods		Observe label precautions.			: No hazardous combustion products ar	e known
					: Use water spray to cool unopened cor	tainers.
		4/10			3 / 10	

ika® Primer-206 G+P			
ersion 1.0	SDS Number:	00000020203	Revision Date: 1
Other hazards which do not None known. COMPOSITION/INFORMATION Substance / Mixture Chemical nature Hazardous components	P240 Grou P241 Use d ment. P242 Use d P243 Take P261 Avoic P264 Wasi P271 Use d P280 Weat Response P303 + P34 I and keep o CENTER/d P305 + P34 for several easy to do. P333 + P3 for several easy to do. P334 + P3 for several easy to do. P334 + P3 for several easy to do. P334 + P3 for several easy to do. P354 + P3 for several easy to do. P355 + P370 + P3 for several easy to do. P356 + P370	only non-sparking tools, precautionary measure breathing dust/fume/ iskin throoughly after f nnly outdoors or in a we aminated work clothing cce. protective gloves/ eye th + P353 IF ON SKIN minated clothing. Rinse 10 + P312 IF INHALED omfortable for breathing cotor if you feel unwell. 51 + P338 IF IN EYES: minutes. Remove conta Continue rinsing. Continue rinsing. 31 f skin irritation or rat on. 31 f skin irritation presis 54 Take off contaminato 78 In case of fire: Use c istant foam to extinguis 33 Store in a well-ventil locked up. sse of contents/ contain ant. fication	receiving equipment. al/ventilating/ lighting equip as against static discharge. gas/ mist/vapours/ spray. iandling. ill-ventilated area. should not be allowed out of protection/ face protection. (or hair): Take off immediat skin with water/shower. : Remove person to fresh a g. Call a POISON Rinse cautiously with water act lenses, if present and sh occurs: Get medical ad- its: Get medical advice/ at- ad clothing and wash it befo Iry sand, dry chemical or h. ated place. Keep container
Chemical name		CAS-No.	Concentration (%)
ethyl acetate		141-78-6	>= 50 - < 70
	oligomers	28182-81-2	>= 1 - < 10
		4151-51-3	>= 1 - < 10
Hexamethylene diisocyanate,	losphate		
Hexamethylene diisocyanate, tris(p-isocyanatophenyl) thioph		53880-05-0	>= 1 - < 10
Hexamethylene diisocyanate,			>= 1 - < 10
Hexamethylene diisocyanate, tris(p-isocyanatophenyl) thioph Isophorondiisocyanate homop		53880-05-0	

ka® Primer-206 G+P			lika®
rsion 1.0	S	DS Number: 00000020203 Revision Date	e: 14.10.2018
PRODUCT AND COMPANY IDE	ENT	IFICATION	
Product name		Sika® Primer-206 G+P	
Product code		00000020203	
Type of product		liquid	
Recommended use of the ch	nem	ical and restrictions on use	
Product use	:	Pretreatment agent, Product is not intended for consumer u	ISE
Manufacturer or supplier's d	etai	ils	
Company	;	SIKA (SINGAPORE) PTE LTD.	
		66A Sungei Kadut Street 1 Singapore 729368	
Telephone		+65 63680883	
Telefax E-mail address		+65 6779 6200	
Emergency telephone num-	:	+65 63680883	
ber			
HAZARDS IDENTIFICATION GHS Classification			
HAZARDS IDENTIFICATION	8	Category 2	
HAZARDS IDENTIFICATION GHS Classification		Category 2	
HAZARDS IDENTIFICATION GHS Classification Flammable liquids Serious eye damage/eye irri-	3	Category 2	
HAZARDS IDENTIFICATION GHS Classification Flammable liquids Serious eye damage/eye irri- tation	3	Category 2 Category 2	
HAZARDS IDENTIFICATION GHS Classification Flammable liquids Serious eye damage/eye irri- tation Skin sensitisation Specific target organ toxicity -	3	Category 2 Category 2 Category 1	
HAZARDS IDENTIFICATION GHS Classification Flammable liquids Serious eye damage/eye irri- tation Skin sensitisation Specific target organ toxicity - single exposure	3	Category 2 Category 2 Category 1	
HAZARDS IDENTIFICATION GHS Classification Flammable liquids Serious eye damage/eye irri- tation Skin sensitisation Specific target organ toxicity - single exposure GHS label elements		Category 2 Category 2 Category 1	
HAZARDS IDENTIFICATION GHS Classification Flammable liquids Serious eye damage/eye irri- tation Skin sensitisation Specific target organ toxicity - single exposure GHS label elements Hazard pictograms	: :	Category 2 Category 2 Category 1 Category 3 (Central nervous system)	

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

MATERIAL SAFETY DATA ABC Dry Chemical Powder		S DATE: 01 JAN 2018	MATERIAL SAFET ABC Dry Chemical Powder Restrict access to area until adequate personal protectiv	completion of clean up. Er	MSDS DATE: 01	
SECTION 11: TOXICOLOGICAL INF	ORMATION		adequate personal protectiv	e equipment. Ventilate are	a.	
TOXICOLOGICAL INFORMATION:	Oral, rat, LD50		SECTION 7: HANDLING A	ND STORAGE		
SODIUM BICARBONATE:	2840 mg/kg		HANDLING:		roduct use suitable containment methods to avoi d local exhaust ventilation to limit personal expos	
EYE CONTACT: SKIN CONTACT: INGESTION: INHALATION:	Irritating effect Irritant to skin and mucous membranes Practically non-harmful Long term inhalation of dust may cause irritation to	the mucous	STORAGE:	Keep cool and dry in a away from water.	absence of vibration. Maintain housekeeping pra	ctice. Store
	membranes		SECTION 8: EXPOSURE	CONTROLS/PERSONAL F	PROTECTION	
SECTION 12: ECOLOGICAL INFOR	MATION		Occupational exposure st United Kingdom OES: 10mg		pirable dust 8-hour time weighted averages. (Re	f: EH40/98)
water course or sewage. In the event of	ow undiluted product or large quantities of it to reach f large spillage, advise appropriate authority.	ground water,			pirator to reduce personal exposure to below OE andling and the normal hygiene measures adopte	
SECTION 13: DISPOSAL CONSIDE	RATIONS		SECTION 9: PHYSICAL A		TIES	
Dispose of surplus product or contamin with household garbage. Do not allow	nated packaging according to local and national legisla product to reach sewage system.	ation. Do not dispose	APPEARANCE:	Fine, yellow powder		
SECTION 14: TRANSPORT INFORM	MATION		ODOR:	Odourless		
Not classified as hazardous for transpo	ort. DOT/ADR/IRD/AND/IATA/IMDF – Not regulated a	as dangerous goods.	PHYSICAL STATE:	Powder		
			pH AS SUPPLIED:	NA		
SECTION 15: REGULATORY INFOR	MATION		SOLUBILITY IN WATER:	NA		
UK REGULATIONS						
	d Information and Packaging for Supply) Regulations t and the Control of Substances Hazardous to Work F		SECTION 10: STABILITY A	AND REACTIVITY		
	nstitute the user's own assessment of workplace risk		STABILITY:		Stable	
Regulations may be applicable to certa			CONDITIONS TO AVOID (S	STABILITY):	Moisture	
Mandatory labelling not applicable (EE	C directive 67/548/EEC).		INCOMPATIBILITY (MATE	RIAL TO AVOID):	No dangerous reactions known	
			HAZARDOUS DECOMPOS	SITION OR BY-PRODUCT	S: NA	
SECTION 16: OTHER INFORMATIO	N		HAZARDOUS POLYMERIZ	ATION:	Does not occur	
legislation. It provides guidance on saf construed as any guarantee of perform	et is based on the present state of knowledge and cur ety health and environmental aspects of the product a nance. The product should not be used for purposes of	and should not be other than fire-fighting	CONDITIONS TO AVOID (F	POLYMERIZATION):		
	he user is responsible for ensuring that requirements of may be obtained from the following Health and Safety		SECTION 10 NOTES: If powder becomes damp or	hard it is not suitable for fi	ire fighting purpose	
EH40 Occupational Exposure Limited EH44 Dust: General principles of prote						Page 3/4
		Page 4/4				

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

MSDS DATE: 01 JAN 2018

40.0%

40.0% 8.2% 5.0% 3.0% 2.6% 1.2%

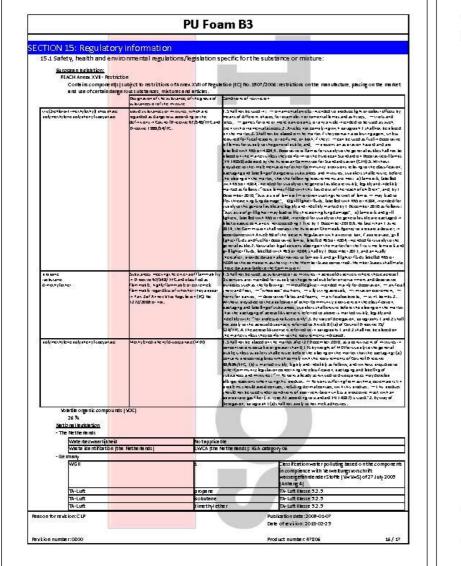
Page 1/4

TRADE NAME: PRODUCT APPLICATION: SUPPLIER ADDRESS: EMERGENCY PHONE: FAX PHONE: FURTHER INFORMATION OBTAINABLE FROM: SECTION 2: COMPOSITION • Chemical Characteria • Description :	isted below with nonhazardous additions. isted risk phrases refer to section 16.
PRODUCT APPLICATION: SUPPLIER ADDRESS: EMERGENCY PHONE: FAX PHONE: FURTHER INFORMATION OBTAINABLE FROM: SECTION 2: COMPOSITION • Chemical Characteria • Description : Mixture of substances lit For the wording of the lit • Dangerous compon	Dry Chemical Powder for fire extinguisher (fire class Fire Armour PTE LTD 14 Fan Yoong Road Singapore 629791 65 6266 6788 65 6266 6788 Fire Armour PTE LTD WINFORMATION ON INGREDIENTS ization isted below with nonhazardous additions. isted risk phrases refer to section 16. nents:
SUPPLIER ADDRESS: EMERGENCY PHONE: FAX PHONE: FURTHER INFORMATION OBTAINABLE FROM: SECTION 2: COMPOSITION • Chemical Characteriz • Description : Mixture of substances lit For the wording of the lit • Dangerous compon	Fire Armour PTE LTD 14 Fan Yoong Road Singapore 629791 65 6266 6788 65 6266 3788 Fire Armour PTE LTD V/INFORMATION ON INGREDIENTS isted below with nonhazardous additions. isted hisk phrases refer to section 16.
EMERGENCY PHONE: FAX PHONE: FURTHER INFORMATION OBTAINABLE FROM: SECTION 2: COMPOSITION • Chemical Characteriz • Description : Mixture of substances lie For the wording of the lie • Dangerous compon CAS: 7783-20-2	14 Fan Yoong Road Singapore 629791 65 6266 6788 65 6266 3788 Fire Armour PTE LTD V/INFORMATION ON INGREDIENTS ization isted below with nonhazardous additions. isted below with nonhazardous additions. isted risk phrases refer to section 16.
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Chemical Characteria Description : Mixture of substances lis For the wording of the lis Dangerous compon CAS: 7783-20-2	ization isted below with nonhazardous additions. isted risk phrases refer to section 16. nents:
Chemical Characteria Description : Mixture of substances lis For the wording of the lis Dangerous compon CAS: 7783-20-2	ization isted below with nonhazardous additions. isted risk phrases refer to section 16. nents:
CAS: 7783-20-2	
CAS: 7783-20-2	Ammonium sulphate Xi: P 36/37/38
EINEC5.231-964-1	Animolium suprate Xt. 1 Solor 50
Non-dangerous con	mponents:
CAS: 7722-76-1 EINECS:231-764-5	Ammonium dihydrogenorthophpsphate
CAS: 14464-46-1 EUNECS: 238-455-4	Cristobalite
CAS: 14807-96-6	$TALC(M_{g3}H_2(SiO_2)_4)$
CAS: 12001-26-2	Mica
CAS: 7631-86-9	Silicon dioxide, chemically prepared
CAS: 63148-57-2	Poly(methylhydrosiloxane)
Bamarki	1
	annorthophosphate (CAS No. 7722-76-1) ionium phosphate
	CAS: 7722-76-1 EINECS:231-764-5 CAS: 14464-46-1 EUNECS: 238-455-4 CAS: 14807-96-6 CAS: 12001-26-2 CAS: 7631-86-9 CAS: 63148-57-2 . Remark: Ammonium dihydroge

11.	TOXICOLOGICAL INFORMATION	_		
	Acute toxicity	7.	HANDLING AND STOP	RAGE
	No acute toxicity whether for inhalation, swallowing or contact with skin or eyes during normal use of the products. Gases appearing during the first heating above 200°C may have a harmful effect.		surface. Knives can be	ication site and cut with a special knife on a clean, solid and plane ordered from Rockwool AB. Waste is placed directly in collection bags ntilation, partificularhy in narrow spaces and at demolition. Local
	Local effects Coarse fibres can cause itching and rashes on the skin, irritation in eyes and the upper respiratory system. The itching and possible inflammation are mechanical reactions to coarse fibres (> 5 µm) and are not damaging in the way chemically irritants may be. They generally		exhaust should be used	at extra dustable jobs. When cleaning up, avoid dry sweeping, large Ily in refuse sacks, residue is sucked up by vacuum cleaner.
	abate within a short time after the end of exposure.			I in original packagings until they are used. They are protected against al damages.
	According to remark Q in directive KIFS 2005:5 from Kemikalieinspektionen stone wool fibres with high biosolubility are classified as not carcinogenic. Roxull stone wool fibres are tested	8.	EXPOSURE CONTROL	LS/PERSONAL PROTECTION
	according to the EU minutes ECB/TM 26:27 Rev. 7 1998 and the fibres comply with remark Q's requirement of biosolubility.		Exposure limit values	l exposure limits for respirable fibres in air-borne dust from mineral wo
12.	ECOLOGICAL INFORMATION		is 1 fibre /cm ³ . Europea	n limit is missing.
	Stone wool is a stable product with no known negative environmental impacts. The product can be reused.			e dust filter P2) should be used if the limit might be exceeded despite of if problems with respiratory organs appear, for example when handlin
13.	DISPOSAL CONSIDERATIONS		old mineral wool in nam	
	Stone wool is not combustible but may be disposed of without special restrictions. The waste can also be granulated and reused as insulation. The wrapping consists of polyethylene plastic which can be recycled or burned. Pallets of wood are used and they can be recycled or burned.		such as neck and forea	uitable protective clothing, closing tightly around sensitive skin areas rms, should be used. Wear dust repelling protective gloves and s or lapels. Wear eve protectors when working above eve level. Lens
14.	TRANSPORT INFORMATION		carriers should always	
	No special precautions required.			ve 150 − 200 °C, decomposition products of the binder may release
15.	REGULATORY INFORMATIONS			duration of release is dependent upon the thickness of the isolation, emperature applied. Therefore it is advised to ventilate the relevant
	EG-Regulation No 1272/2008 about classification, labeling and packaging (CLP) The fibres meet the claims in Note Q and are thus not classified as carcinogenic.		area well during first he supply. In general it is c	ating period and only to access it with full face masks with fresh air orrect to observe a period of 96 hours for this, which needs to be e and / or a strong and irritating smell is noticed in the room.
	Arbetsmiljöverket's regulations are valid when working with mineral wool: AFS 2004:1 "Synthetic Inorganic Fibres" AFS 2005:17 "Occupational exposure limit values and measures against air contaminants"		Hygiene measures in	general nge clothes after the work. Work clothes should be stored and washed
	Labeling of packages	9.	PHYSICAL AND CHEN	IICAL PROPERTIES
16.	Rockwool products are labeled with information about personal protective equipment. OTHER INFORMATION		Appearance	The product is in solid form and has a grey-green colour.
10.			Smell	The product is odourless
	See trade assocation Swedisol's writing "God arbetsmiljö vid montering av mineralull" on www.rockwool.se.		Melting point	> 1000°C
			Flammability	Non-combustible material.
			Explosive properties	Not applicable
			Density	The glass i the fibres has a density of about 2,8 g/cm ³ . The produc has a density of 25-300 kg/m ³ depending on application.
			Solubility	Insoluble in water with the exception of dust binding oil.
		10.	STABILITY AND READ	
			binder is broken down v	cally stable and have no reactivity. At temperatures above 200°C the while smelling gases are leaving. The issue is of short duration. See to tilation until the odour has disappeared and avoid staying in unpleasar

	fety Data Sheet ROCKWOOL	PU Foam B3	
	2013-11-26	Mák (Germany) Dinne thγe bher Tinne ∻e ig hhed ave ange a k posune limit 8 h 1900 mag/m/	
1.	NAME OF PRODUCT AND COMPANY	.polymenes MDI je instemba e Raktion Time-weig hed ave age exposure limits h 005 mg/m ² [8] E:geme	essen et einetembe bschn. 16 [S. 191]
	Product Stone wool insulation based on Rockwool 1000 fibre. Principal application. Thermal, fire and soundproofing insulation.	Propan Time ⊶e ig head ave ange exposure limits h 1000 ppm 1000 mg/mt Butan jaskie some ren Time ⊶e ig head ave ange exposure limits h 1000 ppm	6cm, 1015, 191
	Supplier Rockwool AB, Box 11505, 550 11 JÖNKÖPING, Telephone: 036- 570 52 00, Telefax: 036- 570 52 82, Org.nr: 556347-9152 www.rockwool.se, info@rockwool.com	15.2 Chemical safet y assessment: No chemical isate ty assessment has been constructed.	
2.	HAZARD IDENTIFICATION	SECTION 16: Other information	
	Biosoluble stone wool (Rockwool 1000 fibre) The product has no hazardous qualities but can cause occasional itching caused by the mechanical effect generated by the fibres in contact with skin.	Rull textofeny 8-phrases net Finds to under Fleedings 2 and 3: ROO Hammful by Intelation ROZ Hammful firse to bed ROS/37-703 Findamic exects respiratory vstemend skin	
3.	COMPOSITION/INFORMATION ON INGREDIENTS	PAO Limites evide nor of son schogenic effect PA2/A3 Mey cause sensitization by interstion and skincombect PA3/20 Hermitud anger of service damages to health by provinged exposure through inheir tion	
	(CLP). To keep the stone wool fibres together a binder is added which by the curing process is transformed into heat-stable plastic (bakelite). A small quantity of oil is added to make the products water repellent and to reduce dusting. Some products have one or two surface layers of for example paper, alu-foil or glass fibres. Included components Mineral wool 95-98 % Bakelite (binder) 1, 5 - 4, 5 % Oil (dust binding) 0,5 % Classification Rockwool stone wool has no classification.	H222 Site mety frammable incost. H220 Continuing survey pressure; may explode if thested. H200 Hermfull Sitve Sitest. H201 Hermfull Sitve Sitest. H202 Hermfull Sitve Sitest. H203 Hermfull Sitve Sitest. H204 Hermfull Sitve Sitest. H205 Hermfull Sitest. H206 Hermfull Sitest. H207 Hermfull Sitest. H208 Hermfull Sitest. H209 Hermfull Sitest. H219 He	
4.	FIRST AID MEASURES	DPD De rigerous Perparation Directive CLP (EU-GHS) Classification, labelling and packaging (Slobally Harmonised System in Europe)	
	Inhalation Leave the dusty place and breathe fresh air at inconvenience.	The imformation in this safety data sheet is based on data and samples provided to BKS. The sheet was written to the best of state of knowledge at that time. The safety data sheet only constitutes a guide line for the safe the noting, use, consumption, the subtance stype participant, have an anniticate under point. Lew wesky data sheets as a written from time to time. On	storage, transport nly the most recent
	Skin If skin irritation occurs, do not rub or scratch. Wash off under running water prior to washing with mild soap and water.	used. Other since the destroyed, unless indicated otherwise word for word on the safe yathers have it the information subtrances/properation/mitture in puer short, minist with other subtrances on processes. The mathy data is the other subtrances/properations/mitture in question.complex and the instructions in this safety data is the other all measure distribution operations and more mathing subtrans and more mathing work has measured and our cardinated all measure distributions and more statements and	s no que inty specific the user from the c n the real applicable
	Eyes If eye irritation occurs, do not rub the eys. Flush eyes with water and consult a physician if irritation persists.	Bit does not gue renter the accume, or ex. Amastie ress of the into mention provided and another he bit liable for any chang street is only to be used "which the tupoper unbin, Switch Fank, use hat, Alexangy and Lachters thin, Any use out bit of this safety datastreet is subject to the Kannee and he bits (imiting count for as switch inyour RB) kanne agreement or vien it of Bis. A limit the case property rights to the Switch Switch and Park of the Utility of the Angel and the Count of the Angel and the Angel angel and the Angel angel and the Angel and the Angel angel and the Angel angel and the Angel angel and the Angel angel angel and the Angel a	is ses is styour ow this is failing the gen
5.	FIRE-FIGHTING MEASURES	agree me méconalitions forde bit.	
	Stone wool products from Rockwool are non-combustible and do not pose a fire hazard. In case of fire binder disappears and finishes such as paper, cellulose and plastic layer are combustible. Use normal fire fighting methods.		
6.	ACCIDENTAL RELEASE MEASURES		
	Personal precautions Not applicable.		
	Environmental precautions Not applicable.		
	Decontamination methods Clean up normally. See paragraph 7, 8 and 13.	Reson for revision: CLP Publication date: 2009-01-0 Date of existin: 2009-01-0	
		Provision number: 0800 Product number: 47206	25

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



	PU Foam B3
14.2. UNp ropershipping name:	
Propershipping no me	Aerosols
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E bss inartion code	3F
14.4 Packing 5 to up:	
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14.7 Emviron me mis i heze ids :	
Environmentally haza dous substance mark	no
146 Special precautions for user:	
Speciel provisions	190
Speciel provisions	827
Special provisions	344
Speciel provisions	525
Lim izzd que ntities	Combination packagings: not more than 1. liker parinner packaging for liquids. A package shall notweigh more than 30 kg.gross mass
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\$4.2 UNpropershipping name:	2.389 V //
Propershipping name	4erosols
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14.4 Packing group:	
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Marine pollutant	
Environmentally haza dous substance mark	no
14.6 Special precarutions for user:	
Speciel provisions	53 190
Speciel provisions Speciel provisions	277
s peciel provisions	327
Special provisions	844
special provisions	9.79
Limited que ntities	Zombination packagings: not more than 1 liter per inner packaging for Iquids. A package shall not weigh more than 30 kg, gross mass)
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14.7 Tens port in bulk according to Annex llof MARP	DL73/78 and the IBC Code :
Annex liof MARPOL73/78	Note ppiceble, tesed one valiable data
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UN num ber	19 30
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Propershipping nome	Aerosols, filimma ble
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146 Special precautions for user:	- F
Special provisions	A \$13
Special provisions	4.167
speciel provisions	4302
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on for nevision:CLP	Publication date: 2009-01-07 Date of evision: 2013-02-25
ALCONOMIC ACCESSION	
	Product number: 47806 15

		PU Foam B3
	and an and	
	tment methods:	
	relating to waste na loode (Directive 2006/92/EC de	the second second second
		ining og a nic so he mis or othe relange ious substances (Depending on banch of industry and production
process, e b	oother EURAL codes may be applic	abe. Has more waste according to Directive 2006/92/1C.
12.1.2 Disposal r		
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hezendous ·	esteshell not be mixed together if	this may emin is rik of polution or case to problems for the "further management of the waste. He can do that shoe, then sport or handle hazan dous waste shall be le the necessary measures to prevent risks of
pollutionor	demane to people oranimat. Spec	if testine nt. Do not discharge into dia ins or the environment.
13.1.3 Packaging		
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1501 10.	nackaging containing residues of or	conterminented by deingerous substeinces).
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		iquids. A package shall not weigh more than 30 kg. gross mass
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"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

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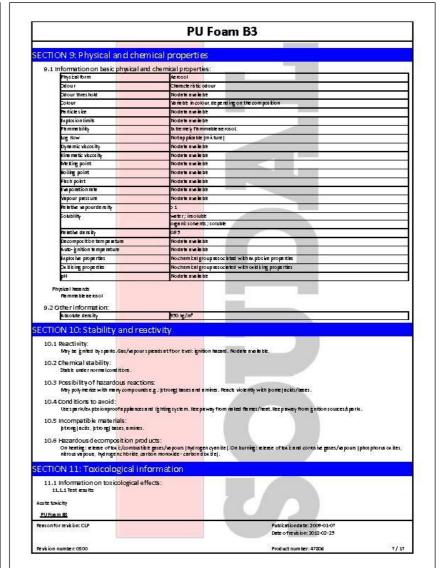
PU Foam B3 Suspected of causing cancer. Not class iffed for mutage nic organotox is toxicity Notclessified for reprotoxic ordeve opmente I toxicit loxicity othe reflects PU Foe m BE No jtestidets on the mixture she is bl Chronic effects from shortend long-termex posu PU Foe m E ON CONTINUOUS/REPEATE D EXPOS URE/CONTACT: Reding of weakness. Itching, Skinnsh/inflammation. May stain the skin. Dry skin. Coughing. Possible inflammation of the respiratory tact. Regimatory difficulties. 11.1.2 Other imbroation PU Rem E EC as cast CUP as cast ategory 2 methyle ne ook Concost CLP carc cat a tegory 2 IA PC- class inication Polymethyle ne polyphenyl socya neb MAK - Kreitserzeugend Kategorie TLV- Carcinogen ECTION 12: Ecological information 12.1 Toxicity: PU Rem E No jest jete on the mitture evelopted tris D-chloro-1-methyle thyll also are to Fresh/sett water mmeter thod Velue ou rection Species fest design e lu e de te minet Ac ute tox is ity fishes 56.2 mg/l Beachyda nio re nio tetic system Fresh weter Experimente Ivalue; Ac ute tox is ity ime ne brotes OBC D202 65-335 mg/ Ce phnie magne Experimental value ; Toxicity algae and other aquati plants Se le nastrum ca pricor nutu r Experiments Ivalue. Srowth ate ORC DZ01 73 mg/1 enete Pere reter polymethyle ne poly phenyl soc Presh/selt water Nethod Ue luc unation Species lest design u e de te minet 4cute tox čitγotherequetč organisms te en ture study 0.50 o 1000 mg/l Toxicity squatic micro organisms DBC D 209 0 100 mg/l te enture study ineted study propene Parameter Method Un luc Duration Species Test design Fresh/salt Ve be de te minetic nter Ac ute tox is ity fishes 650 24 mg/1 Pices Lite enture study Ac ute tox is ity inner te brotes Lite a ture study EC30 7 mg/1 8 mg/1 Ca phnia mag na 42 h Toxicity a type and other aque te en ture study plants Ac ute tox is ity other aquastic 10- 100 mg. ctive led sludge stime ted value organisms Long-term toxicity fish Pime photes prometos 2.4-3.7 mg/ 1920 Long-term toxicity equeti 1.1-2.0 mg/ Caphnia magna 8 4 Z C me de hortes Reason for revision: CLP Publication data : 2009-01-07 Date of exision: 2013-02-25 Product number: 47806 11/ 17 Revision number:0800

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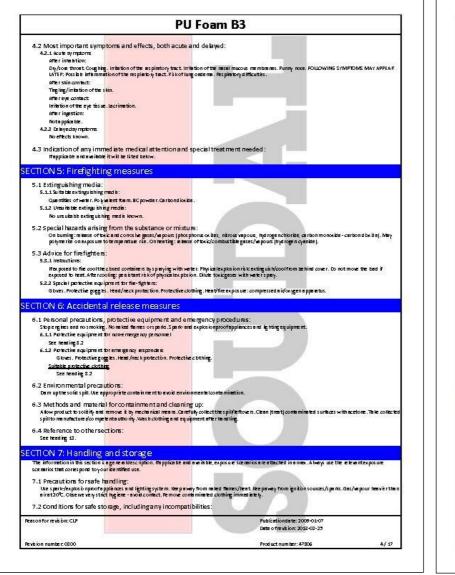
"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

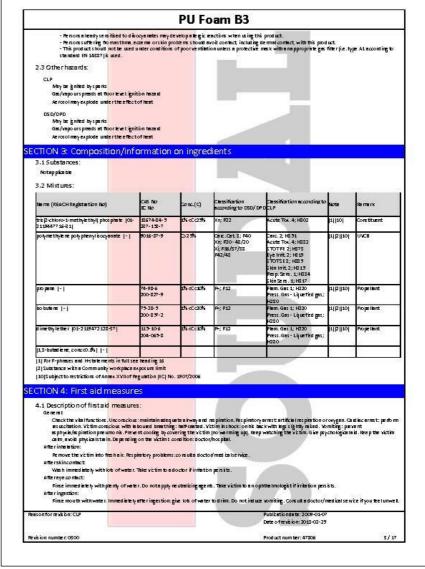
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til	2-chloro-1-methy	ethy I ahos ah	air,					
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	ne rosolj	22	906	u .	1999 B.	1	and the second	20 •
	methy lene polypi		<u>t</u>					
	Route of exposure	Penerneter	Method	Value	Bi posu ne tirne	6 pecies	Gender	Velue determinetion
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	Inhe letion	ш э о		10-20 mg/l	4 h			Life rotue study
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	Route of	Pe re me ter	Method	Volue	Bk posu re tirre	i pecies	Gender	Velue
	ex posu ne		1					determineton
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iob	uta ne		-		-	19 av	-	
	Route of	Para meter	Method	Volue	Bk posu ne tirne	6 pecies	Gender	Ve lue
	ex posu ne					and the second second		determination
	Inhe letion	LD	1	50 mg/1	4 h	Fat		Life rotule stud y
	ethylether Routeof	Parameter	Method	Volue	Bi posu ne tirne	Species	Gender	Ve luc
	kouteot exposure		ine thoo	None -	av treat le one	Preces	ae noer	determinetion
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_ L	Dermal		-					ex pentjudge ment Not relevant
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- 6	Inheletion	ແກ		809 mg/l	4 h	Fat		ex pertjudge ment Literature stud y
Class <u>Concil</u> Low	Inheletion sification of the m usion recute toxicity by 1	LC 50 nicture is besed the de rms i rou	on the relevant ing ed	209 mg/l 16399 1 ppm ient of the mixtue	4 h 4 h	Fat Fat		
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PU Foam B3				PU Foam B3			
Product na me	Test	No miter		7.2.1 Safe stonge require ments:			1
socyanates	NIGH	5522	-	Storage tempe at us: c 50 °C. Sto	ore in a cool area . He pout of directs unlight. Ventilation	atfbor Evel. Firepro	ofstoercom. Unsuthorized per
socyanates	NICSH	5721			ments. Max. storage time: 1yearb).	· · · · · ·	50
	using the substance or mixture as intended			7.2.2 Kee paway from:	trong acids, strong bases, a mines.		
	analishis these will be listed below.			7.2.3 Suits ble packaging material	tiong lacas, istrongi tases, a mines.		
A ON BL/PNBC velues				Aerosol			
DNEL- Workers				7.2.4 Non suite ble packaging materi	al:		
tris (2-chloro-1-methylethyl) pho Effect eve ((DNEL/DMEL)	Type	Volue	Remork	No deta eve it ble			
DNEL	Ac ute systemic effects de rmei	0.522 mg/kg bw/day		7.3 Specific end use(s):			
00000	Acute systemic effects inhibition	0.93 mg/m	0: 2		ue scenerios ere attached in a new .See information sup	nied to the menuted	tumer
	Long-term systemic effects de rme l	0.528 mg/kg bw/day		in obbient of a property of the property of the	are the first of t	then of the monous	
	long-term systemic effects inhe ation	D93 mg/m*		SECTION 8: Exposure cont	trols/personal protection		
d ime the letter		55 W	- X4 (Q)			1 m	
Effect level(DNEL/DMEL)	Түре	Velue	Re mark	B.1 Control parameters: 8.1.1 Comparisons les posure			
DNEL DNEL- General colouistion	long-term systemic effects inheletion	1294 mg/m*		al Occupational lex posure al Occupational lexposure finitiva	luer		
					nan in his these will be isted be low.		
tris D-chloro-1-methyle thyll also Effect level (ONEL/OMEL)	sonete Type	Volue	Be mark				
DNEL	Ac ute systemic effects de rmai	D.264 mg/kg tw/day		The file the risings	Frank Control of Contr	han	hubble server of the
	Acute systemic effects inheletion	D.23 mg/m*	1 1	Dime thy Ether	Shorttime value	783 ppm 1500 mg/m*	Public occupations lexposu
	Ac ute systemic effects one I	D33 mg/kg trw/day			Time-weighted everage exposue limits h		Public occupations lexposu
	long-te misyste mic effects de rme l	0.264 mg/kg bw/day			and a second sec	896 ppm 9 50 mg/m*	
	Long-term systemic effects in he bation	0.23 mg/m*				- 10 - De	
	long-term systemic effects one I	0.33 mg/kg trw/day		EU	A second s		
d inethy letter				DimethyEther	Time-weighted and rage as posule fimits h	1000 ppm	Indicative occupational exp value
Effect Evel(DNEL/DMEL)	Түре	Velue	Re mark			1920 mg/m	haine
DNEL	long-term systemic effects inheletion	471 mg/m*		Be igiu m			
PNEC Sime thy le the r				Dx yde de dimethyle	Time-weighted average ex posure fimits h	1000 ppm	
Compartments	Volue	Remark		H _i d costbures a liphatiques sous	forme Time-weighted average av posue (mits h	1920 mg/m* 1000 ppm	-
Reshweter	0.135 mg/l	DE TELS		gaze use : (Aka res C ± C4)	to the process of the second o	Proce bb	
Saltwater	0.155 mg/1	7		6	Time-weighted average ex posure limitS h	1000 ppm	-
Aque jinte rmitte nt releases j	1.549 mg/i					1.000240504	1
Waste wate r treatment plant		3		52730419101-0000000			
Fresh weter sed iment	DáSling/kg			LSA (T LV-ACSIH)	a nes (C1-Time-weighted and nage ex posule fimits h	koo	TLV- Adopted Value
Marine wate rsed iment	0.069 mg/kg		 	C41	a les l'es la me de E uen a se lafe ex bos ne tuurs u	1000 ppm	inter Autoped and
Soil 5 Control banding	p.045 mg/kg				10		100
fopplicable and available it will	he lited below			Germeny			
				sobuten	Time we ghed are rage as posue fimits h	1000 ppm	TRGS 900
posure controls:		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ST 33 52 52			2400 mg/m	
momenton in the section is a prime rise there comes point to your id	ene el description. If e ppliceble end exerte ble, exposu le stiffed use	rescene rose reattached in annex	A leave use the relevant exposure	Dimethy Ether	Time-weighted and rage as posule limits h	1000 ppm 1900 mg/m*	008 22MT
1 Appropriate engineering cont				Propen	Time-weighted one rege ex posue fimits h	8000 nom	008 2881
	in næsend lighting system. Her paway from naked flar	nes/heat. Heep away from gnition	sources, \$ parks . Measure the	2357 A		1000 ppm 1200 mg/m*	10000000
concentration in the air regular	γ.		11 14 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17.	26254274			
	es, such as personal protective equipment		I	France			
	oid contact. Do notest drinkorsmole during work.		I	Cxyde dedimethyle	Time-weighted and regelex posule limits h	1000 ppm 1920 mg/m*	VRI: Vale ur règle me ritaire in
espinato y protection:	New Sector Contractor		I			have utility	
Weargas mask with filter type A tend protection:	a moone, in a ro exposu e amit.		I I	UK			
fand protection: Gibves.			I	socyanates, all jas - NCO Ex.ce pt	methy) Shorttime value	0.07 mg/m*	Workplace as posure limit (8
Voteriots	Beskthrough time	hickness		socyana te	a set a s	and the second second	
LDPE (Low Density Poly Ethylene		D.025 m m			Time-weighted average as posure limits h	0.02 mg/m*	Workplace exposure limit (i
ve protection;				Cigarette, Jantas a	Short time value	200 mm	Marinhan na nar um (- à 17
Protective goggies.			I	Dime thy letter	PROTE DIE	900 ppm 978 mg/m*	Workplace exposure limit (E
kin protection:			I I		Time-weighted average as posue fimits h	400 ppm 766 mg/m*	Workplace ex. posure limit (E
Head/neck protection. Protectiv			I I		N74 7 81	766 mg/m*	
3 Bro ironne ntelex posure cont	hols:		I I	bi National bio be ical finit values			
See headings 6 2, 6 3 and 13		A NOT STREET	I		ave in the these will be listed be low.		
se leadings of a s of a s	and the second se	the second second		2.1.2 Semping methods		1	
-		Publicationdate: 2009-0:		Reason for revision: CLP		Publicationdate	
revision: CLP						Date of revision	2042-02-25
-		Date of revision: 2013-02	25				
-		Dete of revision: 2013-02 Product number: 47206	6/ 17	Revision number: 0800		Product num be	10.2

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"





"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

PU Foam B3 SAFETY DATA SHEET SOUDAL Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010 2.2 Label elements Labelling according to Regulation EC No 1272/2008 (CLP) PU Foam B3 ECTION 1: Identification of the substance/mixture and of the company/undertaking 100 1.1 Product identifier: Containsp : PU Foam 83 Product name Dange Signal word Registration number REACH : Not applicable (mixture) H-statements Product type REACH Mixture H222 Extremely flammable aerosol 1.2 Relevant identified uses of the substance or mixture and uses advised against: H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure if inhaled. 1.2.1 Relevant identified uses H319 Causes serious eye irritation. polyurethane H335 May cause respiratory irritation. H315 Causes skin irritation 1.2.2 Uses advised against No uses advised against known H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction 1.3 Details of the supplier of the safety data sheet: P-state ments P101 If medical advice is needed, have product container or label at hand. Supplier of the safety data sheet P102 Keep out of reach of children SOUDAL N.V. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking Everdongenlaan 18-20 8-2300 Tumhout P251 Pressurized container: Do not pierce or hum, even after use. Tel: + 32 14 42 42 31 P280 Wear protective gloves and eve protection/face protection. Fax: +32 14 44 39 71 P260 Do not breathe spray. msds@soudal.com IF exposed on if you feel unwell: Call a POISON CENTER or doctor/physician P309 + P311 P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/ 122°F. Manufacturer of the produc P501 Dispose of contents/container to manufacturer/competent authority. SOUDAL N.V. Supplemental information Everdongenlaan 18-20 8-2300 Turnhout - Persons already sensitised to diisocya nates may develop allergic reactions when using this product. - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product Tel: + 32 14 42 42 31 This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter () a
 type A1 according to standard EN 14387) is used. Fax: +32 14 44 39 71 msds@soudal.cor Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD) 1.4 Emergency telephone number: Lahel 24h/24h : + 32 14 58 45 45 (BIG) (Telephone advice: English, French, German, Dutch) ECTION 2: Hazards identification Extremely flammabl 2.1 Classification of the substance or mixture: Contains: polymethylene polyphenyl isocyanate 2.1.1 Classification according to Regulation EC No 1272/2008 R-phrases The classification of the mixture is not yet evaluated according to CLP Harmful by inhalation Category Hazard statements 36/37/38 Irritating to eyes, respiratory system and skin Flam. Aerosol category 1 222: Extremely flamma ble a erosol. 40 Limited evidence of a carcinogenic effect H351: Suspected of causing cancer. category 2 42/43 May cause sensitisation by inhalation and skin contact category 2 H373: May cause damage to organs through prolonged or repeated exposure if inhaled 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation Eye Irrit. H319: Causes serious eye irritation category 2 S-phrases H335: May cause respiratory irritation STOT SE category 3 (Keep out of the reach of children) (02) Skin Irrit. category 2 H315: Causes skin irritation. 16 Keep away from sources of ignition - No smoking Resp. Sens. category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. 23 Do not breathe spray Skin Sens. category 1 H317: May cause an allergic skin reaction 36/37 Wear suitable protective clothing and gloves 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC 51 Use only in well-ventilated areas Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC (In case of accident by inhalation: remove casuality to fresh air and keep at rest) Carc. Cat. 3; R40 - Limited evidence of a carcinogenic effect (63) Additional recommendations F+: R12 - Extremely flammable Pressurized container, Protect from sunlight and do not expose to temperatures exceeding 50°C. Xn; R20 - 48/20 - Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation Do not pierce or burn, even after use. Xi; R36/37/38 - Irritating to eyes, respiratory system and skin. Do not spray on a naked flame or any incandescent materia R42/43 - May cause sensitisation by inhalation and skin contact Contains isocyanates. See information supplied by the manufacturer Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BKS) Publication date: 2009-01-07 Technische Schoolstraat 43 A, 8-2440 Geel Date of revision: 2013-02-25 Reason for revision: CLF Publication date: 2009-01http://www.big.be Date of revision: 2013-02-25 © BIG vzw Reason for revision: CLP Revision number: 0300 Product number: 47906 2/17 Revision number: 0300 Product number: 47806 1/17

SAFETY DATA SHEET According to Regulation (EC) No.1907/20	Isingsweebee.com Website: www.singsweebee.com	Email: info	No. 6. Attap Valley Road, Singapore 759906 Tel. (65) 6752 21.48 Fax: (65) 6752 1892 Email: info@singsweebee.com Website: www.singsweebee.com SAFETY DATA SHEET			
According to Regulation (EC) No. 1907/20			According to Regulation (EC) No.190			
Version: CLP01	R134a Date: 01 Jan 2017	Page 6 of 6	Version: CLP01	R134a Date: 01 Jan 2017 Page 5 of (
Glossary	Date. of sall 2017	Fageo uro	Effect on effluent treatment	Discharges of the product will enter the atmosphere and will not result		
WEL Workplace Exposure Limit (UK	(HSE EH40)			long term aqueous contamination.		
COM The company aims to control ex	xposure in its workplace to this limit posure in its workplace to the ACGIH limit		13. Disposal consideration			
TLV-C The company aims to control	exposure in its workplace to the ACGIH Ceiling limit		Recommended	Best to recover and recycle. If this is not possible, destruction is to be an approved facility which is equipped to absorb and neutralise ac gases and other toxic processing products.		
Sen: Capable of causing respiratory s Bmgy: Biological monitoring guidance			14. Transport information	14. Transport information		
0 0 00			Hazard label			
Hazard statement(s)						
H280: Contains gas under pressure; ma	ay explode if heated.					
			Road/rail	*		
			UN No.	3159		
			ADR/RID Class ADR/RID Proper Shipping Name	2.2 1,1,1,2-TETRAFLUOROETHANE (REFRIGERANT GAS R134a)		
			Sea			
			IMDG Class Marine Pollutant EmS Code	2.2 Not classified as a marine pollutant FC-SV		
				FC-SV		
			Аіг ІСАО/ІАТА	2.2		
			15. Regulatory information			
			European Regulations			
			Special restrictions	The fluorinated greenhouse gas R134a may be supplied in returnab containers (drums/cylinders). The container contains fluorinate greenhouse gases overed by the Koyoto Protocol. The fluorinate greenhouse gases in containers may not be vented to the atmosphere.		
				Regulation (EC) No.842/2006 of the European Parliament and the Council on certain fluorinated greenhouse gases.		
				Directive 2006/40/EC of the European Parliament and the Counc relating to emissions from air-conditioning systems in motor vehicle and amending Council Directive 70/156/EC.		
			16. Other information	·····································		
			This datasheet was prepared in accordance	This datasheet was prepared in accordance with Regulation (EC) No. 1907/2006.		

SC Auto (Myanmar) Co., Ltd.

No. 6 Attap Valley Road Email: info@	端美企业私人有限公司 General Registration No: 199206229C .Singapore 759906 Tel: (65) 6752 2148 Fax: (65) 6752 1892 ingsweebee.com Website: www.singsweebee.com	No. 6 Attap \ En	新瑞美企业私人有限公司 SING SWEE BEE ENTERPRISE PTE LTD Company Registration No: 1992/06239C /alley Road, Singapore 759906 Tel: (65) 6752 2148 Fax: (65) 6752 1892 nall: Info@iingsweebee.com Website: www.singsweebee.com
SAFETY DATA SHEET According to Regulation (EC) No.1907/20	06	SAFETY DATA SHE According to Regulation (EC) N	
	R134a		R134a
Version: CLP01	Date: 01 Jan 2017 Page 4 of 6	Version: CLP01	Date: 01 Jan 2017 Page 3 of
9. Physical and chemical pro	perties	7. Handling and storag	10
Form Colour Odour Solubility (other) Boiling point (°C) Melting point (°C) Vapour density (air=1) Vapour pressure (mm Hg) Specific gravity	Liquefied gas Colourless Slight ethereal Slighty soluble Soluble in: alcohols, chlorinated solvents, polyethylene glycol -26.2 -101 3.66 at normal boiling point 4270 at 20°C 1.22 at 20°C	Handling	Avoid inhalation of high concentrations of vapours. Atmospheric level, should be controlled in compliance with the occupational expo- limit. Atmospheric concentrations well below the occupati exposure limit can be achieved by good accupational hygiene prac. The vapour is heavier than air, high concentrations may be produce low levels where general ventilation is poor. In such cases, pro adequate ventilation or wear suitable respiratory protective equip with positive air supply. Avoid contact with naked flames and surfaces as corrosive and very toxic decomposition products en formed. Avoid contact between the liquid and skin and eyes.
10. Stability and reactivity			Avoid venting to atmosphere.
Hazardous reactions	Certain mixtures of HFCs and chlorine may be flammable or reactive under certain conditions. Incompatible materials: finely divided metals, magnesium and alloys containing more than 2% magnesium. Can react violently if in contact with alkali metals and alkaline earth metals - sodium, potassium, barium.		The fluorinated greenhouse gas R134a may be supplied in return containers (drums/cylinders). The container contains fluorin greenhouse gases covered by the Kyoto Protocol. Fluorin greenhouse gases in contains may not be vented to the atmosph (Regulation (EC) No. 842/2006 of the European Parliament and Council on certain fluorinated greenhouse gases).
Hazardous decomposition product(s)	Hydrogen Fluoride by thermal decomposition and hydrolysis	Process Hazards	Liquid refrigerant transfers between refrigerant containers and to and
11. Toxicological information Inhalation	LC50 (rat) (4 hrs) \geq 500,000 pm (2,080,000 mg/m ³). High exposures may cause an abnormal heart rhythm and prove suddenly fatal. Very high atmospheric concentrations may cause anaesthetic effects and asphyxiation.		from systems can result in static generation. Ensure adequate earth Certain mixtures of HFCs and chlorine may be flammable or reac under certain conditions. Care must be taken to mitigate the ris developing high pressures in systems caused by a temperature when liquid is trapped between closed valves or in cases wh containers have been overfilled.
Skin contact	Liquid splashes or spray may cause freeze burns. Unlikely to be hazardous by skin absorption.	Storage	Keep in a well ventilated place away from fire risk and avoid sources of heat such as electric or steam radiators. Avoid storing near to the intal air conditioning units, boiler units and open drains.
Eye contact	Liquid splashes or spray may cause freeze burns.	Specific use	Subject to Member State regulations, applicable uses are: refrigerant,
Ingestion	Highly unlikely - but should this occur freeze burns will result		blowing agent, propellant, solvent.
Long term exposure	A lifetime inhalation study in rats has shown that exposure to 50,000 ppm resulted in benign tumours of the testis. The increased tumour incidence was observed only after prolonged exposure to high levels and is considered not to be of relevance to humans occupationally exposed to HFC 134a at or below the occupational exposure limit.	8. Exposure controls / General	personal protection Wear suitable protective clothing, gloves and eye/face protection. W thermal insulating gloves when handling liquefied gases. In cases
42 Ecological information	exposed to the 1544 at or below the occupational exposure mint.		insufficient ventilation, where exposure to high concentrations vapour is possible, suitable respiratory protective equipment w
12. Ecological information Environmental fate and distribution	High tonnage material produced in wholly contained systems. High		positive air supply should be used.
Persistence and degradation	Traje tomage material products in a clory committed systems. Traje tomage material used in open systems. Gas. Decomposes comparatively rapidly in the lower atmosphere (troposphere). Atmospheric lifetime is 14 years. Products of decomposition will be highly dispersed and hence will have a very low concentration. Does not influence photochemical smog (i.e. is not a VOC under the terms of the UNECE agreement). Does not deplete ozone. Has a Global warming Potential (GWP) of 1300 (relative to a		Eye Protection Gloves
	value of 1 for carbon dioxide at 100 years) according to Annex 1 of Regulation 842/2006 on certain fluorinated greenhouse gases. Values in Annex 1 are taken from the third assessment report (TAR) of the Intergovernmental Panel on Climate Change (2001 IPCC GWP values). United Nations Framework Convention on Climate Change (UNFCCC) reporting GWP is 1300.	00-000/2	CAS No. LTEL (8hr TWA ppm) LTEL (8hr TWA mg/m ³) STEL (ppm) STEL (mg/m ³) Not (mg/m ³) 000811-97-2 1000 4240 - - WE
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Green Myanmar Environmental Services Co., Ltd.

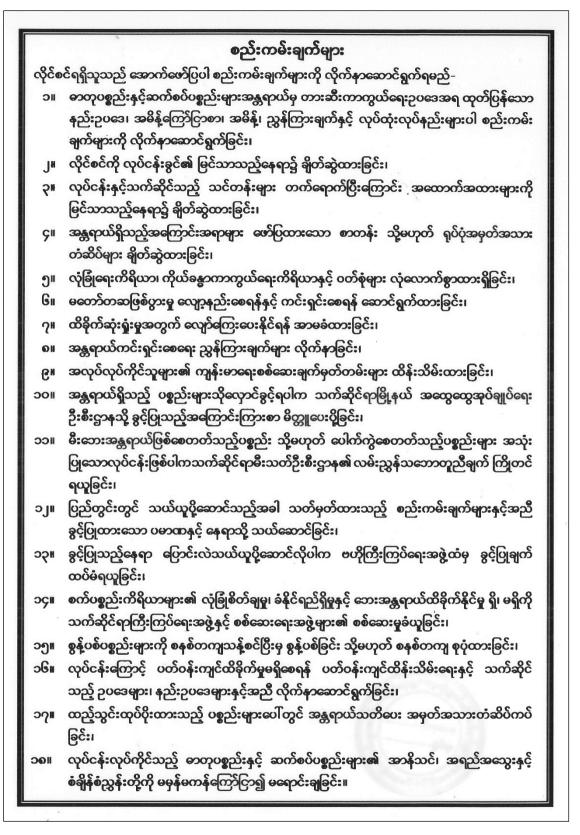
Initial Environmental Examination Report "Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

新瑞美企业私人有限公司 SING SWEE BEE ENTERPRISE PTE LTD Company Registration No: 199206229C No. 6 Attap Valley Road, Singeneor 59900 File: (5) 5752 2148 Fax: (65) 6752 1892 Errail: Info@singsweebee.com Website: www.singsweebee.com		新瑞美企业私人有限公司 SING SWEE BEE ENTERPRISE PTE LTD Company Registration No: 19306230C No: 6 Attap Valley Road, Singapore 739006 Tel: (65) 6752 12148 Fax: (65) 6752 1892 Email: Info@singsweebee.com Website: www.singsweebee.com	
SAFETY DATA SHEET According to Regulation (EC) No.1907/20	06	SAFETY DATA SHEE According to Regulation (EC) No.1	
	R134a		R134a
Version: CLP01	Date: 01 Jan 2017 Page 2 of 6	Version: CLP01	Date: 01 Jan 2017 Page 1 of 6
4. First aid measures		1. Identification of the se	ubstance / preparation and company / undertaking
	The first aid advice given for skin contact, eye contact and ingestion is applicable following exposures to the liquid or spray. Also see section 11.	Product name	R134a
Inhalation	Remove patient from exposure, keep warm and at rest. Administer oxygen if necessary. Apply artificial respiration if breathing has ceased or shows signs of failing. In the event of cardiae arrest apply external cardiac massage. Obtain immediate medical attention.		
Skin contact	Thaw affected areas with water. Remove contaminated clothing. Caution: clothing may adhere to the skin in the case of freeze burns. After contact with skin, wash immediately with plenty of warm water. If irritation or bilstering occur, obtain medical attention.		
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart for at least 10 minutes. Obtain immediate medical attention.	Use	Subject to Member State regulations, applicable uses are refrigerant, blowing agent, propellant, solvent
Ingestion	Unlikely route of exposure. Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain immediate medical attention.	atmospheric concentrations may	n sures may cause an abnormal heart rhythm and prove suddenly fatal. Very hi cause anaesthetic affects and asphyxiation. Liquid splashes or spray may cause free
Further medical treatment	Symptomatic treatment and supportive therapy as indicated. Advenatine and similar sympathonimetic drugs should be avoided following exposure as cardiac arrhythmia may result with possible subsequent cardiac arrest.	burns to skin and eyes. EC Classification EC Directive 67:548/EEC:	Not classified
		Regulation (EC) No. 1272/2008 (
5. Fire-fighting measures	HFC 134a is not flammable in air under ambient conditions of	Label Elements	
otatia	temperature and pressure. Certain mixtures of HFC 134a and air when under pressure may be flammable. Mixtures of HFC 134a and air under	Hazard- statement(s):	H280: Contains gas under pressure; may explode if heated
	pressure should be avoided. Certain mixtures of HFCs and chlorine may be flammable or reactive under certain conditions. Thermal	Signal word(s).	Warning
	decomposition will evolve very toxic and corrosive vapours (hydrogen fluoride). Containers may burst if overheated.	Hazard pictogram(s):	~
Extinguishing media	As appropriate for surrounding fire. Keep fire exposed containers cool by spraying with water.		$ \rightarrow $
Fire Fighting Protective Equipment	A self contained breathing apparatus and full protective clothing must be worn in fire conditions. Also see section 8.		GHS04
6 Appidental valages		Precautionary statement(s):	P410 + P403: Protect from sunlight. Store in a well-ventilated place.
6. Accidental release measure Personal protection	Ensure suitable personal protection (including respiratory protection)		ation on ingredients
	during removal of spillages. Also see section 8.	Alternative names:	1,1,1,2-tetrafluoroethane (HFC 134a), R134a
General	Provided it is safe to do so, isolate the source of the leak. Allow small spillages to evaporate provided there is adequate ventilation. Large spillages: Ventilate area. Contain spillages with sand, earth or any suitable adsorbant material. Prevent liquid from entering drains, sewers, basements and workpits since the vapour may create a suffocating atmosphere.	Hazardous ingredient(s) Hazardous ingredient 1,1,1,2-tetrafluoroethane (HPC)	% CAS No. (w/w) EC No. Hazard symbol(s) and hazard 134a) 100 000811-97-2 212-377-0 GHS04, H280
			licer AA

APPENDIX (11): License for Chemical and Related Substances

çô ဓာတ္ပပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းများအန္တရာယ်မှ . လုပ်ငန်း 0 တားဆီးကာကွယ်ရေး ဗဟိုကြီးကြပ်ရေးအဖွဲ့ တားဆီးကာကွယ်ရေး အရေအတွက် (မျိုး) သက်တမ်း 140 ဓာတ္ပပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းများဆိုင်ရာ လုပ်ငန်းလိုင်စင် လိုင်စင်အမှတ် _ ၀၀၀၆၆၄ _ _ (နည်းဥပဒေ ၁၀) ရက်စွဲ၊ ၂၀၂၁ ခုနှစ်၊ မေ လ ၃၁ ရက် ______ှ<mark>______</mark>ရက်စွဲပါ လျှောက်လွှာအမှတ် ____(၂၀_____ဖြင့် လုပ်ငန်းလိုင်စင် CIIC လျှောက်ထားသော _____ SC Auto (Myanmar) Co., Ltd. _____ ကုမ္ပဏီ/ လုပ်ငန်းမှ ဦး/ဒေါ် ___Ms.Lee Swee Hoon _ (ဘ) ___Mr.Lee Yea Kong __ နိုင်ငံသား စိစစ်ရေးကတ်ပြားအမှတ်/နိုင်ငံခြားသားမှတ်ပုံတင်အမှတ် ____K<u>1363143R</u>____ အား ဤ လုပ်ငန်းလိုင်စင်ကို ထုတ်ပေးလိုက်သည်။ ၂။ ခွင့်ပြုသည့်လုပ်ငန်းအမှိူးအစား သိုလှောင်ခြင်း၊ သုံးစွဲခြင်း၊ တင်သွင်းခြင်း၊ တင်ပို့ခြင်း၊ သယ်ယူပို့ဆောင်ခြင်း၊ လက်ဝယ်ထား ရှိခြင်း၊ ဖြန့်ဖြူးခြင်း၊ ဝယ်ယူခြင်း။ အမှတ်(၁၈၈၊ ၁၈၉)၊ (၁ဝ)လမ်း၊ ရန်ကုန် ၃။ လုပ်ငန်းလုပ်ကိုင်ခွင့်ပြုသည့် ဓာတုပစ္စည်းနှင့် စက်မှုစုန်၊ စေကမ္ဘာဝင်း၊ မင်္ဂလာဒုံမြို့နယ်၊ ဆက်စပ်ပစ္စည်းများ၏ အမျိုးအမည်များ ရန်ကုန်တိုင်းဒေသကြီး။ ထားရှိမည့်နေရာ (ပြည့်စုံစွာဖော်ပြရန်) ani 2.2.- 9-ဗဟိုကြီးကြပ်ရေးအဖွဲ

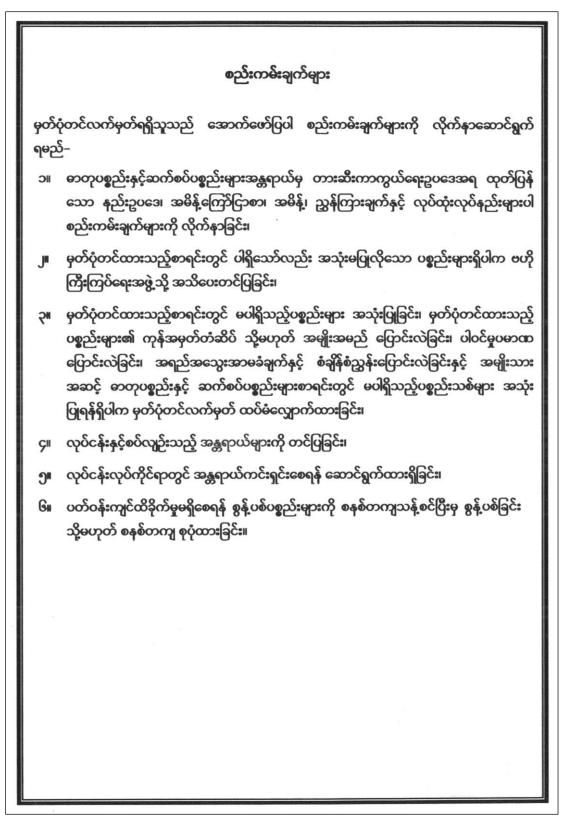
"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

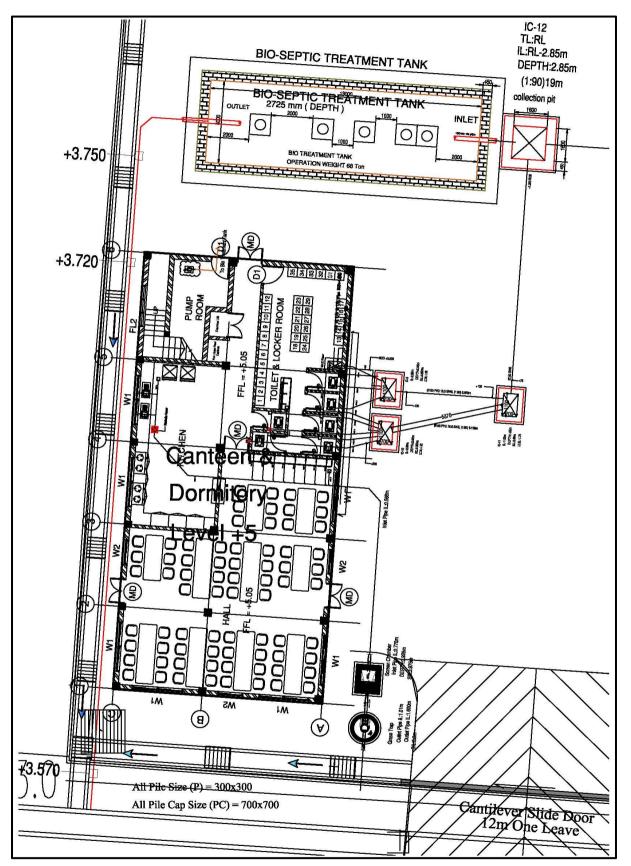


SC Auto (Myanmar) Co., Ltd.

APPENDIX (12): Registration Certificate for Chemical and Related Substances

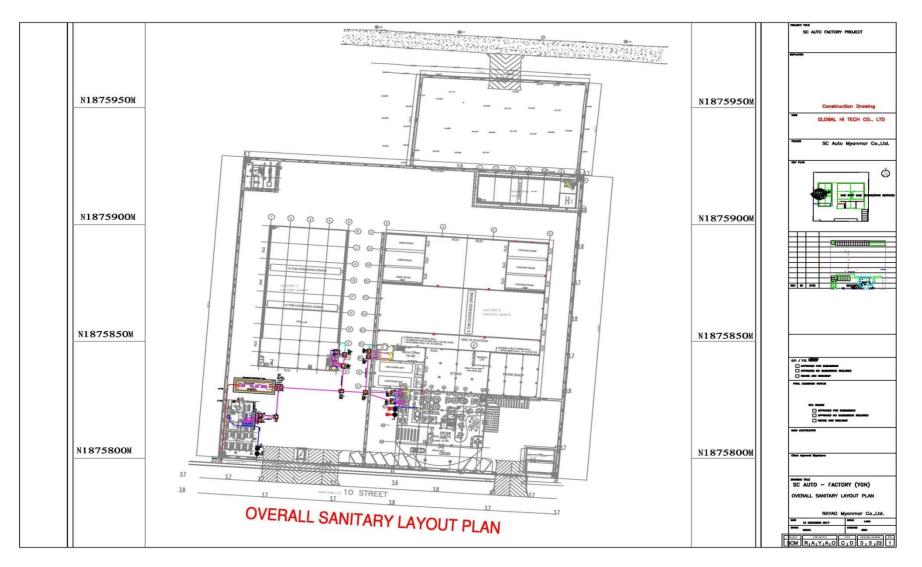
တားဆီးဂ	စ်စပ်ပစ္စည်းများအန္တရာယ်မှ ပုံစံ စ ကာကွယ်ရေး ဓာတုပစ္စည်း ၂၃ အရေအတွက် (မျိုး) ညှင်ပဲရေးအဖွဲ့ သက်တမ်း ၂နှစ်				
ဓာတ္ပပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းများ မှတ်ပုံတင်လက်မှတ်					
မှတ်ပံ့တင်လက်မှတ်အမှတ်စဉ် <u>0000၉၄</u> (နည်းဥ၀ၜၜ ၂၇)					
ရက်စွဲ၊ ၂၀၂၁ ခုနှစ်၊ ဇွန်လ ၂- ရက်					
၁။ ရက်စွဲပါ လျှောက်လွှာအမှတ်					
အသုံးပြုရန် မှတ်ပုံတင်ပြီးဖြစ်သည်။ ၂။ တာဝန်ခံလျှောက်ထားသူ၏အမည် ၃။ နိုင်ငံသားစိစစ်ရေးကတ်ပြားအမှတ်	တာဝန်ခံလျှောက်ထားသူ၏အမည် Ms.Lee Swee Hoon နိုင်ငံသားစိစစ်ရေးကတ်ပြားအမှတ်				
သို့မဟုတ် နိုင်ငံခြားသားမှတ်ပုံတင်အမှတ် ၄။ အမြဲတမ်းနေရပ်လိပ်စာ	K1363143R No.188 & 189, 10 th Street, Yangon Industrial Zone,				
၄။ အမြဲတမ်းနေရပ်လိပ်စာ	Mingaladon Township, Yangon.				
၅။ ဆက်သွယ်ရန်ဖုန်းနံပါတ် သို့မဟုတ် ဖက်စ်(Fax)နံပါတ် သို့မဟုတ် e-mail လိပ်စာ ၆။ လုပ်ငန်းလိပ်စာ	09-254088442				
၇။ ဆက်သွယ်ရန်လုပ်ငန်းဖုန်းနံပါတ် သို့မဟုတ် ဖက်စ်(Fax)နံပါတ် သို့မဟုတ် e-mail လိပ်စာ ၈။ မှတ်ပုံတင်ခွင့်ပြုသောဓာတုပစ္စည်းနှင့်	နောက်ဆက်တွဲပါအတိုင်းဖြစ်ပါသည်။				
ဆက်စပ်ပစ္စည်းများ (နောတ်ဆက်တွဲစာရင်းအရ) ၉။ သက်တမ်းကုန်ဆုံးမည့် နေ့ရက်					
P-2016-C	ဗဟိုကြီးကြပ်ရေးအဖွဲ့				





APPENDIX (13): Sanitary Treatment System Insalltion Layout

Initial Environmental Examination Report "Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"



"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

APPENDIX (14): Essential First Aid Kit Supply List



800-221-9222



This Ebook tackles the common question of what supplies are essential to keep in a first aid kit. The purpose of a first aid kit is to have supplies on hand to treat those minor injuries that happen like cuts, scrapes and burns. The essential list of first aid kit supplies include items that will stop bleeding, prevent infection and help relieve pain.

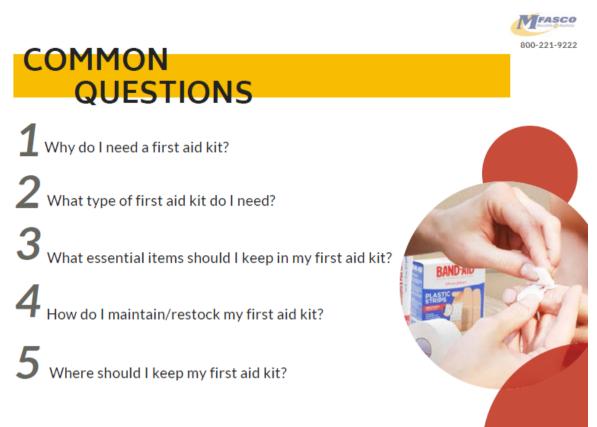
Because not everyone has medical training, there are lots of questions as to what first aid supplies are needed, what they treat and how they are used. The purpose of this guide is to answer common questions about first aid supplies and first aid kits. We want to make it easy for you to determine the list of first aid kit supplies that are perfect for you. As always, you should talk with your medical professional about any special supplies you may need to keep you in optimal health.



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A basic first aid kit can be used to help reduce blood loss, infection, and future medical complications. Having a first aid kit onhand allows you to immediately treat injuries so the body can begin to heal.

Everyone, including families, workers, teachers, campers, boaters, hikers, and travelers should keep a first-aid-kit close by to treat basic cuts, scrapes, burns, and other minor injuries.



FASCO

800-221-9222

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When choosing which first aid kit is right for you, first determine when and where it will be used and if there are environmental factors that should be considered. For example, a boating first aid kit should be waterproof but a home first aid kit can be a nylon bag or compact box. If you need a first aid kit for a business, it's important to select a kit that can be mounted on a wall and easily accessible for employees.

When determining the right first aid kit for your use, consider how many people the first aid kit needs to treat and the possible injuries that are likely to occur. Select the kit with the appropriate first aid supplies to treat that number of people and injuries.



TYPES OF FIRST AID KITS

- HOME
- WORKPLACE / OSHA
- OUTDOOR RECREATION
- TRAVEL
- PERSONAL
- CAR/AUTO
- MARINE
- **EMERGENCY PREPARE**

FASCO WHAT ESSENTIAL ITEMS SHOULD I KEEP IN MY FIRST-AID-KIT?

Every basic first aid kit should include the essential first aid supplies used to treat minor injuries including cuts, scrapes and burns. Depending on your use, you may want to include additional items that will treat possible injuries for your specific use including eye wash, cold packs, splints, CPR masks, gauze and medicines.

The following is a list of the basic first aid essentials that should be included in your first aid kit.

SEE WHAT ESSENTIAL ITEMS YOU SHOULD KEEP IN YOUR FIRST AID KIT





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SC Auto (Myanmar) Co., Ltd. FASCO Strains + Sprains 800-221-9222 **Tongue Depressors: Elastic Bandage** Triangular bandage: Used for splinting or even applying Used to help secure dressings, cold Use as a sling, tourniquet or even to help splinting. ointments. packs, wrap and protect an injured area. Control swelling with cold therapy and wrap the injured area with elastic bandages or Cold Pack Adhesive Tape: splinting material. First aid or medical tape, holds Instant, ready-to-use cold pack gauze dressings and splinting helps control swelling, sprains, material in place fractures, burns and contusions. FASCO **First Aid Tools** 800-221-9222 and First Aid Book: Scissors: Thermometer: Booklet offering pictures and Used to cut clothes, gauze or other Used to determine body temperature. instructions on how to give basic items when providing first aid. It is an inexpensive and handy first aid. diagnostic tool. First aid tools like an instruction book, instruments Penlight: Tweezers: and diagnostic supplies help to quickly treat injuries. This mini flashlight is perfect for Remove splinters from under the skin. looking in ears, or in throats.

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A RESTOCK MY FIRST AID KIT?

Use these five free helpful tools to maintain and restock your first aid kits and supplies at mfasco.com.



REFILL THIS KIT

Every first aid kit we make can be refilled one item at a time. Go to the product page, select "Refill This Kit" and add the items you need to restock.



RESTOCKIT

People who have a workplace first aid kit can use this visual refill first aid kit. Simply point, click, and add to cart.



PRINTABLE CHECKLIST

Every first aid kit we make has a printable checklist. Find an existing first aid kit on our website similar to yours and print the checklist.



REORDER LIST

This wish/saved list feature allows you to save kit refill items to a unique list which you can then print as a checklist.



MAKE A FIRST AID KIT

This free tool allows you to pick your own container and supplies, creating your own custom first aid kit print a checklist or reorder with a few clicks of the mouse.

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"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

APPENDIX (15): Health and Safety Procedure of the SC Auto (Myanmar) Co., Ltd

SC AUTO - BRIEFING ON SAFETY

SC AUTO MYANMAR Co.,Ltd BRIEFING On SAFETY



Objectives /

 To educate and instill safety awareness amongst all employees working in the factory
 To brief employees on some inhouse safety rules & regulations.



Topics Covered

Machine Safety **Operating an Overhead Crane Operating of Forklift** Work at Height **Operating of Scissor Lift** Hot Work Welding/Electrical Safety **Fire Safety Awareness** Good Housekeeping **Personal Protective Equipment Reporting of Accident & Incident** Others



SC AUTO - BRIEFING ON SAFETY

MACHINE SAFETY



Summary of Machines in SC Auto

*ABB Robotics Welding Machine

MAZAK 2D Laser Machine

SOCO 3D Laser Machine

SOCO Tube Bending Machine

Ermaksan 2D Sheet Bending Machine (1st Floor)

*Yaskawa Motoman Robotic Welding Machine

CNC Milling Machine

CNC Turning Machine

CNC conventional turning machine

CNC conventional milling machine

*MAZAK Intenerex 200S (4 to 5 axis) CNC Machine

Semi Auto Cutting Machine (Tube Cutting)

Wire Processing Machine

Overhead Crane

Air Compressor

*Electric Arc Welding Machine

♦MIG Welding Machine Migatronic

Hydraulic Pressbrake Machine

Wheel Cutting Machine



Scissor Lift (Manitou 78XE)

Forklift

✤Tsacker Nissan Ormic

Pallet Jack

Emanuel Lift Set

Aluminium Cutting Machine

*Asada Bolt Machine

Nissan Forklift

♦Air Dryer ANGSTROM

Glass Lifter

Electric Power Hoist

Hitachi Cutting Machine

Everising Metal Cutting Bandsaw

Way Train Bemato Metal Cutting Bandsaw

Crown Lift Truck (Battery 30 V)

Vertical Receiver Tank

Folding Machine

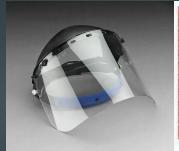
✤Man Lift



Personal Protective Equipment

face-shield ear-muffs eye-goggles gloves

safety shoes













Operating of Machine

Only authorized & trained/certified operators are allowed to operate the machines



During operating of machines, PPE must be worn at all times.

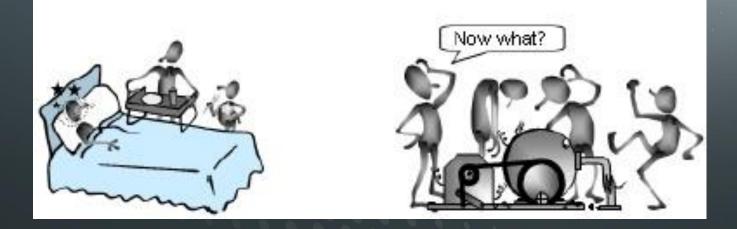
All machines should be checked and maintained regularly by the individual employee in-charge .





Operating of Machine

If machine is out of order, employee in-charge must notified the maintenance team and their immediate supervisor immediately.





Machine Maintenance

- The maintenance department has put up the Daily, Monthly, Yearly checklist for all machines. Employee in charge of these machines has to do their daily, monthly and yearly maintenance according to the checklist.
- Machine must be stopped before carrying out cleaning, servicing and maintenance.





Daily Checklist/ Monthly Checklist/ Yearly Checklist/ Employee Incharge of maintenance. Approved and trained operators to operate machine







DO & DON'TS











CONSEQUENCES FOR NOT FOLLOWING MACHINE OPERATION SAFETY RULES !!!









SC AUTO - BRIEFING ON SAFETY

OVERHEAD CRANE



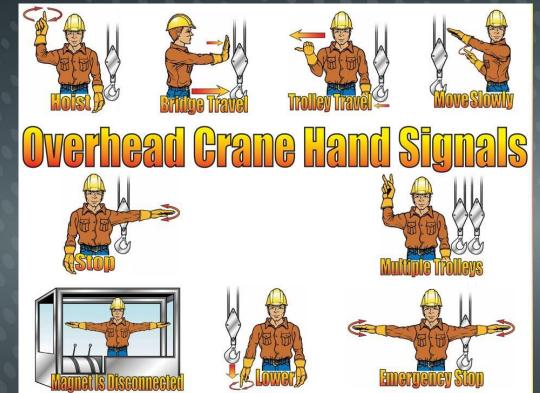


OPERATING THE OVERHEAD CRANE ✓ Only trained and license personnel can operate the overhead crane

 Helmet should be worn at all times during lifting Operations
 Fencing off the lifting operation area
 No one should walk below the crane when in operation.



RIGGER & SIGNAL LICENSE PERSONNEL





Roles and Responsibilities of a Lifting Supervisor

- Co-ordinating and supervising all lifting activities in Accordance to the lifting plans.
- Briefing all lifting team members (i.e Crane operator, Rigger, Signalman) on the lifting plan, risk control measures and safe lifting procedures before the commencement of the lifting Operation.
- Ensuring that only registered crane operator, appointed rigger, Appointed signalmen participate in lifting operation
 Be present during all lifting operation
 Unsafe condition are to be reported to him, to take suitable
- Measures to rectify the conditions so that the lifting operation can Be conducted safely



Roles and Responsibilities of a Rigge

Check the slings and ensure that the rigging angle is correct
 Make sure load is properly secure and inform the crane operator of the weight of the load

- Make sure that slings and shackles are well maintained.
 Make sure loads is stable, secured and balance before lifting operation
- Ensure no loose items are placed. To prevent load from falling during operations
- Immediately report any defective or faulty lifting gear To the lifting supervisor
- Place adequate paddings on the edge of the load to Prevent the sling from damaging



Roles and Responsibilities of a Signalman

Check the load is properly rigger before giving clear signal to the Crane Operator to lift up the load

Give the correct hand signal to the Crane Operator

Communication between Lifting Supervisor, Rigger and Signalman at all times.



OVERCRANE BEFORE OPERATION

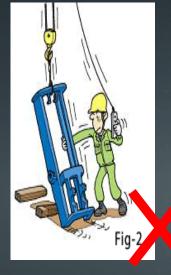
☆Hoist operators must inspect equipment daily before use.
☆ Do not operate a crane or hoist if limit switches, steel ropes, chains or other components are worn or in disrepair.

Replace nylon or web slings immediately if excessively worn.



DO & DON'TS











DO & DON'TS



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CONSEQUENCES FOR NOT FOLLOWING OVERHEAD CRANE OPERATION SAFETY RULES !!!







SC AUTO - BRIEFING ON SAFETY

OPERATING A FORKLIFT



Operating a Forklift

Only authorized & trained/certified operators are allowed to operate the forklift.

During operating of forklift, seat belt and reflective vest must be worn .





OPERATING A FORKLIFT

No supplier and contractors should operate the forklift.
Suppliers and contractors should ask for warehouse assistant when they need someone to operate the forklift.



OPERATION OF FORKLIFT Forklift Safe Work Procedures (SWP)

➢Forklift Training

Pre-Operation Check

Load Assessment

Common Safe Practice

Traffic Control

Maintenance of Forklift



Pre-Checked List - Forklift

P

Forklift	Pre-Operation Checklist
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	ift Identification: _	- 55	20112			232		Mod	el: _	69				!	Mont	1/Y	ear:													
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2



Trained and Approved/License personnel to operate the Forklift



Common Forklift Hazards

- Overloading
- Unsafe stacking
- □ Speeding
- Raised forks
- Unauthorized operation of forklift
- Untrained forklift operators
- Body/limbs caught in moving parts of the forklift
- Falling loads
- Poor condition tyres e.g. without thread markings
- Electric Shock (Battery operated forklift)



Common Forklift Hazards

- Lifting of persons on forks
- Pedestrians and forklifts moving in the same place
- Travelling on slope

- Obstruction in the path e.g. overhead, blind corners
- Poor ground conditions e.g. slippery, uneven, potholes







DO & DON'TS



Pedestrian and forklift moving at the same place



Travelling on Slopes



Unsecured Loac

Lifting Person on





Worn out tyres

DO & DON'TS



Put on seat belts



sla-pacific 2 8900

Pre-checked of Forklift at the beginning of each shift



CONSEQUENCES FOR NOT FOLLOWING FORKLIFT OPERATION SAFETY RULES !!!







SC AUTO - BRIEFING ON SAFETY

WORK AT HEIGHT





WORK AT HEIGHT



Working at Height exceeding 2 metres

 To issue permit
 Permit to be submitted weekly to department head
 To give to HR for filing
 Work At Height supervisor to supervise workers during working at height.
 Helmet and Harness should be worn when working at height.
 Workers who need to work exceeding 2m, has to be trained.



WORK AT HEIGHT

Pre-Use Checks – Always check the conditions of the ladder before use. Check for damaged rungs, missing rubber stoppers & faulty locking spreaders/latches etc.



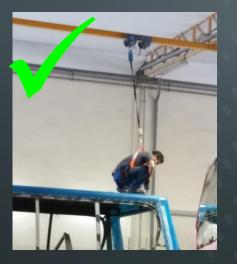


DO & DON'TS















CONSEQUENCES FOR NOT FOLLOWING WORK AT HEIGHT SAFETY RULES !!!



Workplace injuries up* in first half of 2016

major injuries

284

1 4%



Top workplace injuries

Number of injuries	Severity of injury									
by type	Fatal	Major	Minor							
Fall from heights	11	33	-							
Slips, trips and falls	-	83	1,552							
Struck by moving objects	6	36	971							
Caught in/ between objects	7	33	-							
Cut/stabbed by objects	-	-	721							

NOTE: *Data is from January to June this year, compared with the same period last year.

Will fatalities keep rising?

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Here are some of the workplace deaths that have occurred since June

July 1
A worker died after
falling from a 1.8m
ladder while
cleaning the glass
panels of a shelf.

Aug 28

A worker fell seven storeys and died at a construction site.

Aug 8

2.5%

A construction worker building a stairwell in Tuas died after being hit by a chain that snapped and swung into him.

5,823

minor injuries

Sept 3

A worker died after being struck by a falling metal pipe when it got dislodged from the hook of the crane lifting it.

Aug 14

1 35%

A worker helping to unload cargo from a vessel docked at Jurong Port was killed after a bundle of steel bars that were being moved slammed into him.

dangerous

reported

occurrences

Sept 7

A worker was crushed to death between his excavator and the hydraulic arm of another heavy vehicle.

Source: WORKPLACE SAFETY AND HEALTH INSTITUTE STRAITS TIMES GRAPHICS

SC AUTO - BRIEFING ON SAFETY

OPERATING A SCISSOR LIFT





Operating a Scissor Lift



1) Only Approved and trained personnel can use the scissor Lift.

2) Those who need to use the scissor lift which exceed height of 2 meter have to comply to the work at height procedure.

3) Helmet and Harness must be wear at all times.



Operating of Scissor Lift

 \Leftrightarrow The operator is responsible for the lift and its safe operation. $\ensuremath{\,\circ}$

The operator is responsible for performing inspections

 \Leftrightarrow The supervisor is responsible for making sure they are done.

☆The operator is responsible for making sure anyone in the lift has fall protection.
☆Full body harness is mandatory.



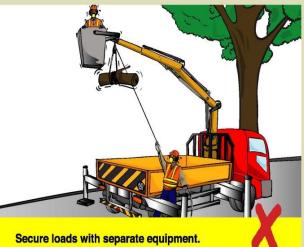
Approved Trained Operator SCISSOR LIFT



DO & DON'TS



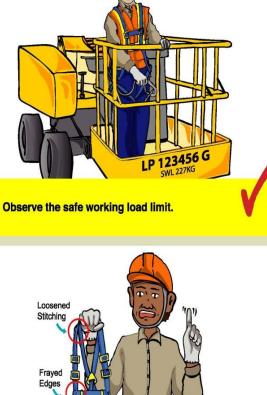
Hook your harness to a designated anchorage point.



Secure loads with separate equipment. DO NOT attach logs to the boom of the platform.



Use proper work platforms. DO NOT use suspended mancages to prune trees.



Check your harness and lanyard. Make sure it fits well and is not damaged.



SC AUTO – BRIEFING ON SAFETY

HOT WORKS





Hot-Work

✓Only trained and license personnel can operate the welding equipment

✓Welding Gloves, Welding Shield and googles should be worn at all times during welding OperationsAlways check all hot-work equipments before start operation.

✓ Check and ensure that areas are cleared of combustibles & flammable materials.







Welding Checklist Form

Hot-Work Safety Checklist

(A)	Oxy-Acetylene Gas Gutting	Yes	NO.	NA	Rmks
1	Are all gas cylinders kept secured in a upright position during operation / storage ?				600 CO.
2	Are flash-back arrestors installed & functioning properly (at valve or torch ends) ?	0 00000	1000		C/26
3a	Are gas hoses free from defects (such as kinks, joints, burns or cuts)?	-	1		
3b	Are gas hoses connected according to colour-codes (Oxygen – Blue / Acetylene – Red) ?			<u>e</u>	
3c	Are gas hoses check for leaks (visually before use) /(with soap solution at least once a week) ?	4 5 - 5			
4	Are gas torch nozzle free from defects (such as blockage or cracks) ?			-	
5	Are pressure flow-gauges in good working conditions (no leaks or broken glass) ?				
6	Are gas cylinders (especially near valve ends) free from grease ?				
7	Are proper hose-securing devices used instead of "jubilee clips" ?				
8	Are spark-gun used to ignite gas touch (instead of using naked lights) ?	-		Lo Crostin Carls	A CORD AND THE AVERAGE AND
(B)	Storage of Gas Cylinders	1029-8938	1996132603	100000000	Street Street Street
1	Are adjuders stored only in designated areas (away from potential heat / electrical sources) ?				
2	Is proper storage of gas cylinders in place? (In upright position, not to be stacked, strapped together for increased stability, segregating between oxygen & acetylene / empty & full.) ?				
3	Are fire fighting equipments such as fire extinguishers or hose-reels standby near storage ?	COMP NO 1015	-		Contract Contractoria
(C)	Welding		A Said Contest	R. Alexandre	<u>1932/07/07/2022</u>
1	Are equipments in good servicing conditions ?				
2	Are hoses free from defects (such as joints or cuts) ?				
3	Are proper earthing clips used instead of make-shift devices ?	A 1500 Days	Dob aress	CASE SET	
(E)	Personal Protective Equipment (PPE)	NAME OF	267.80	0.839.570	1992-1473-0-1875-1929-1978
1	Are person carrying out hot-works don necessary PPEs such as eye-protection, face-shields, hand-gloves, protective clothing, mask etc.				New York Diversion of the
(F)	Coneral	Yes	No	NA .	Rmks
1	Are fire fighting equipments such as fire extinguishers or hose-reels standby near hot-works ?	12	12	-	
2	Is the hot-work areas located at a minimum safety distance of 3 metres from flammable or combustible sources?		S		
	Are means taken to contain & minimize the spreads of sparks during hot-works ?	_			

Checked By:

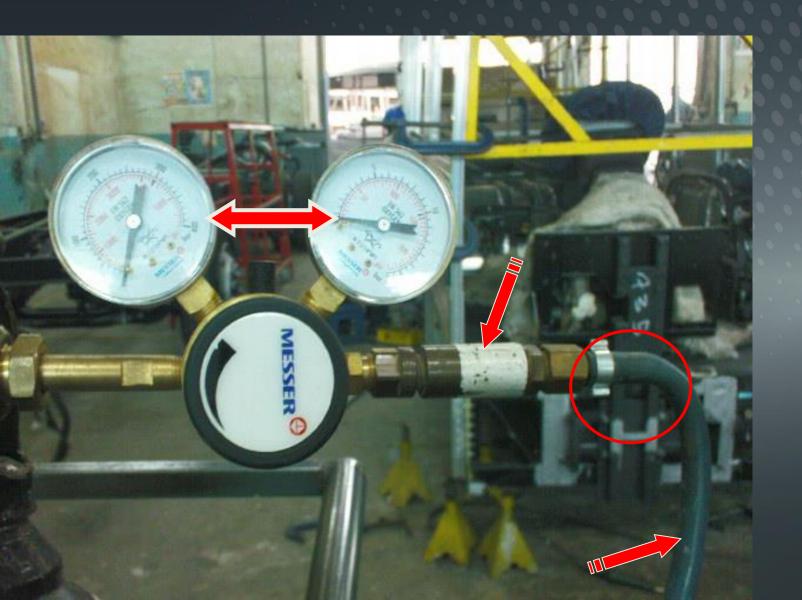
Date:

Sign:

5

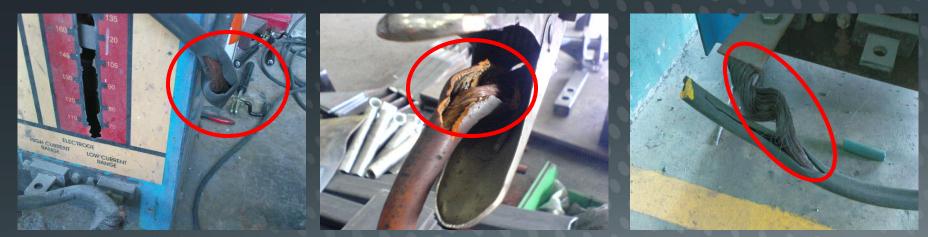


Welding Safety





Welding Safety



Always check if there's any exposed wires from the cable cord.

Do not laid cables messily across work areas / passageways.



DO & DON'TS



















CONSEQUENCES FOR NOT FOLLOWING WELDING SAFETY RULES !!!







Dr Vikram Singh Yadav

SC AUTO - BRIEFING ON SAFETY

OTHER WORK RELATED SAFETY



Electrical Safety



Always check if there's any exposed wires or damaged from the cable cord, socket or plug.
Do not laid cables messily across work areas / passageways.



Fire Safety Awareness





Covered up all flammable Liquids to prevent accumulating flammable vapour.

Keep all passageways, fire exits & alarm call point clear from obstruction.



Chemical Safety

> Be aware of the dangers involved of the chemicals.





Read the precautionary labels on the containers carefully.





> Wear the correct protective equipment.





Manual Material Handling



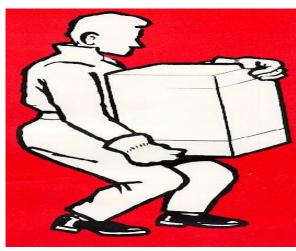
Correct Lifting Technique



1. Feet apart to give stability



2. Straight back with chin tucked well in



3. Firm palm grip. Elbows against body



4. Weight of body kept directly over feet



Noise Hazards



You run the risk of hearing loss if you are exposed over a period of time, to an average of more than 85dB(A) over an 8hrs.

>Use ear plugs to protect your hearing.

➤Wear ear plugs correctly and effectively .

➢ Replace worn or damaged ear plugs immediately .







Wear proper work attire and keep your hair short or tieup your hair. Avoid wearing loose clothing and jewellery that can cause accident as you work.

No horseplaying or distracting others

Do not enter "out-of-bound" and "restricted" areas without permission.

Use correct tools and equipment.

► No food and drink at production area.



SC AUTO (MYANMAR)CO.LTD

Any employees found not wearing uniforms & PPE are not allowed to enter the Production Area.

Only Option : To purchase uniforms & PPE at the above listed price.

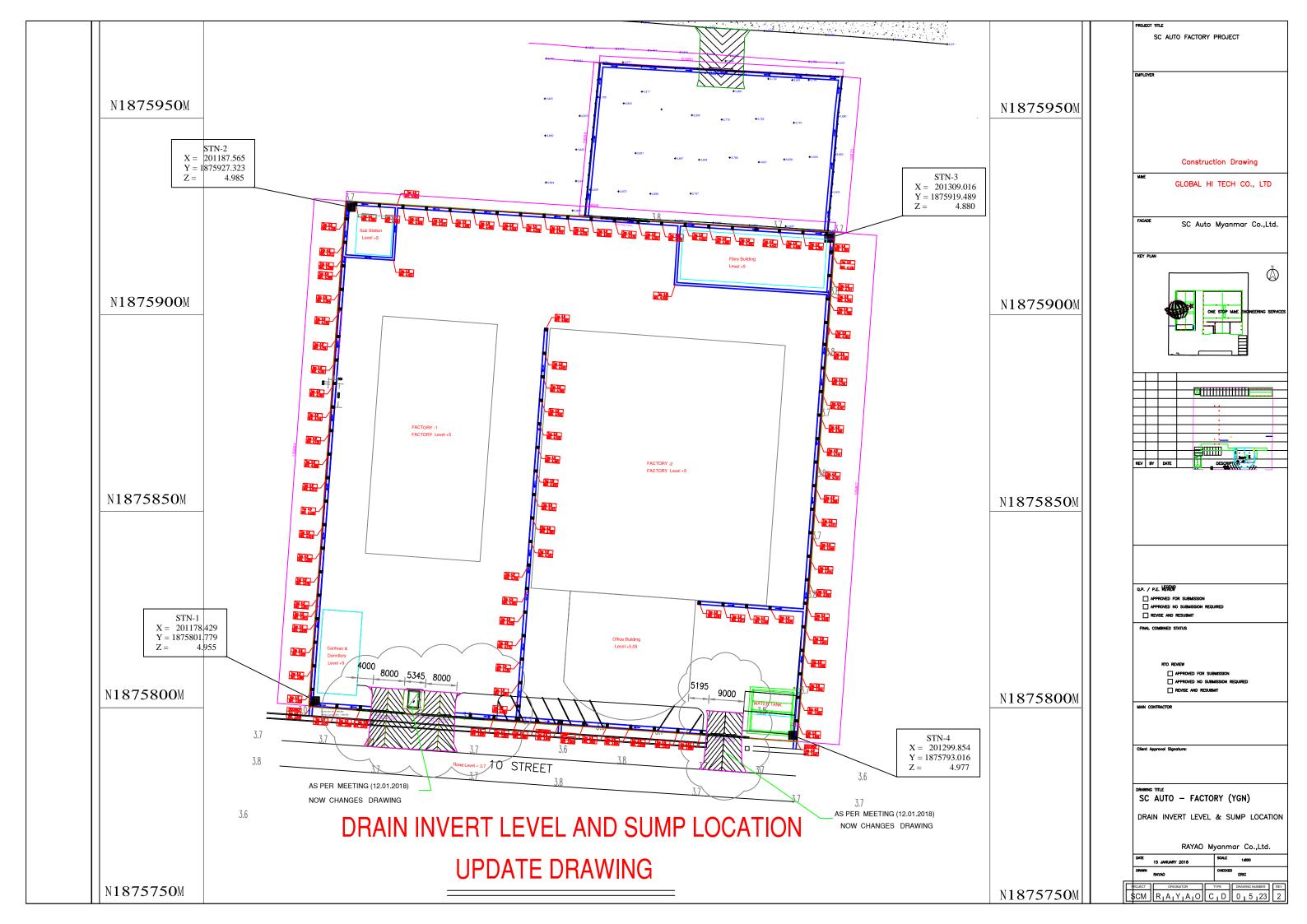


Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

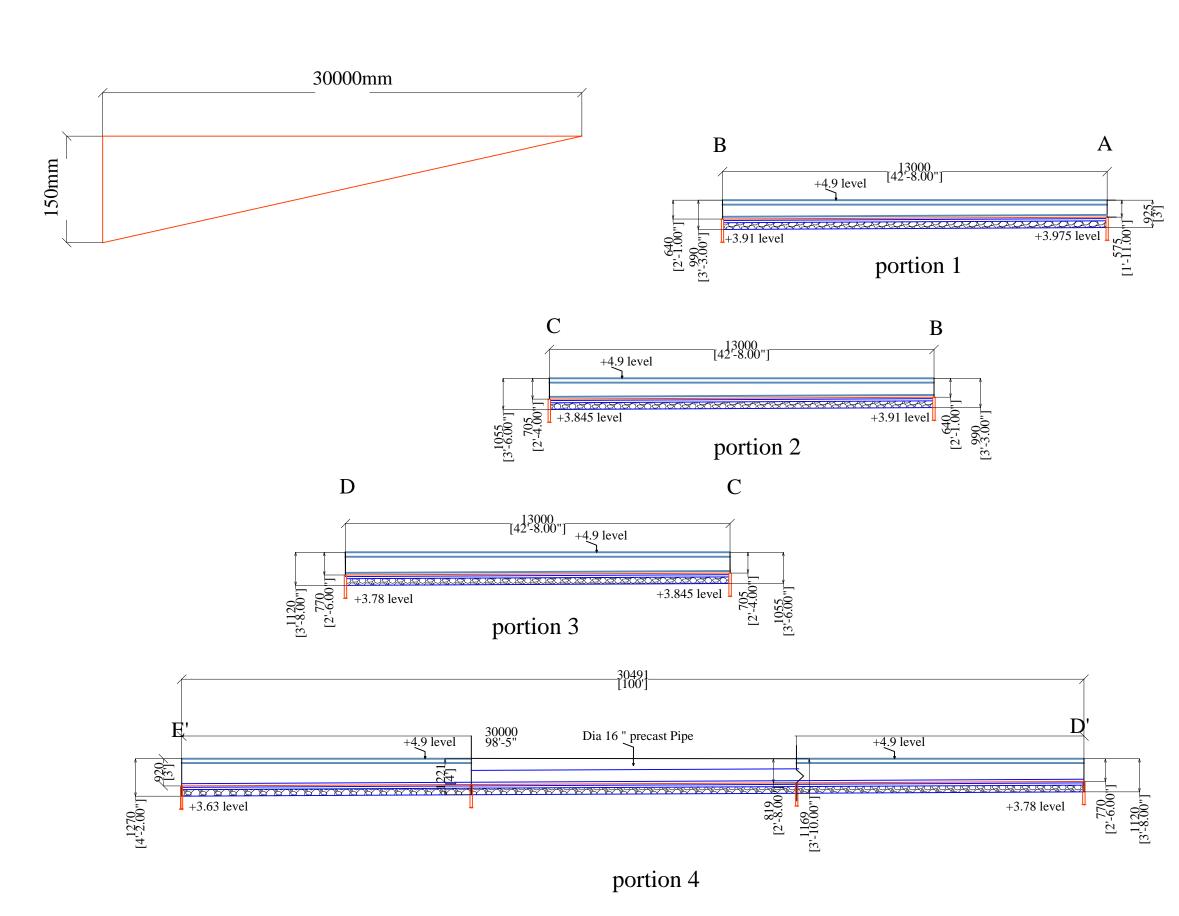
APPENDIX (16): Drainage System Layout and Drain Design



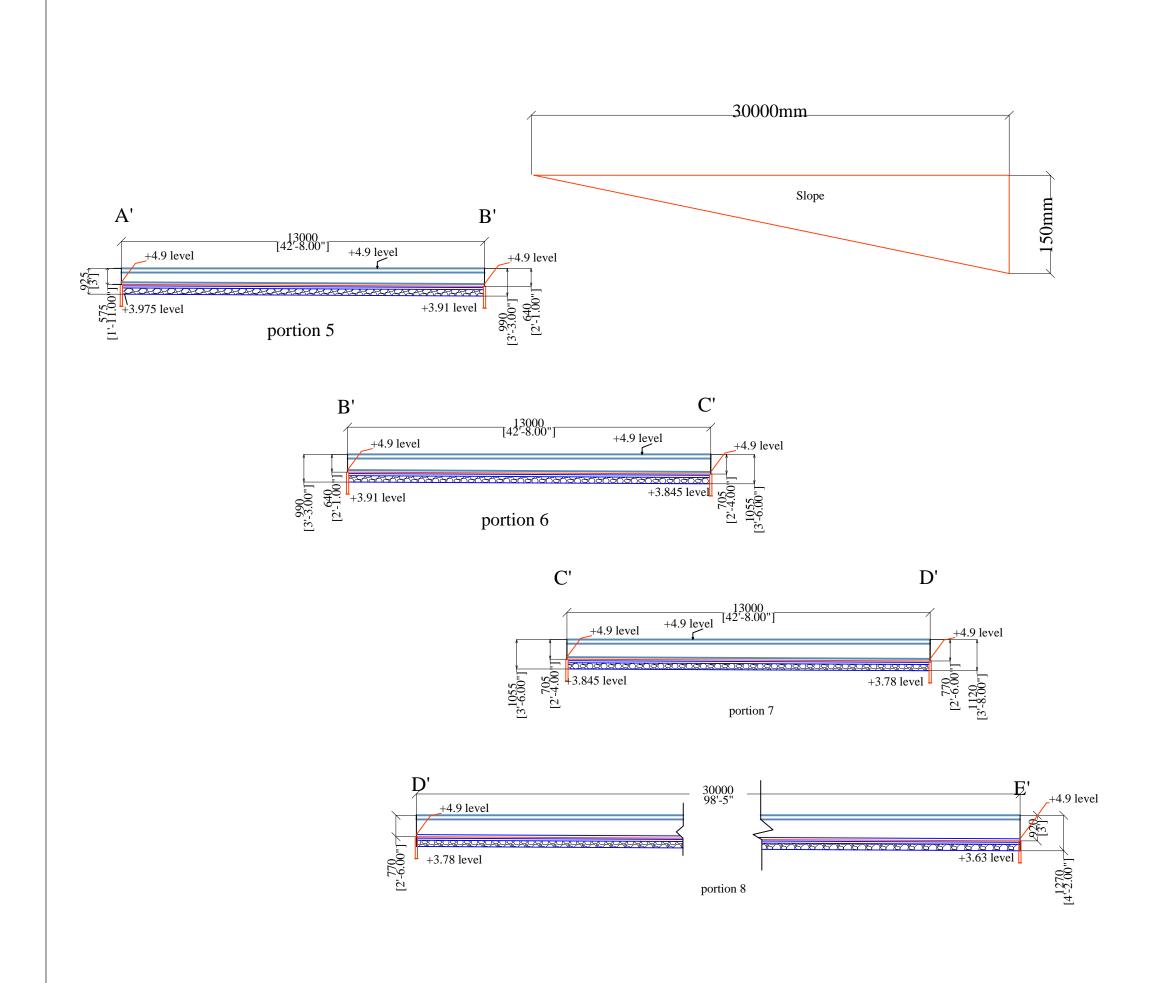
Item No	Point Name	Layer	Level	Depth(from +/-4.9)	Distance	Remarks
		Finished Level(Top)	+ 4.9	+ 4.9		
		Invert Level	+ 4.4	500 mm		
Ι	Point A & A'	Timber Top Level	+ 4.32	575 mm	Point A	
		LNC Layer Level	+ 4.27	625 mm	T Olite A	
		Hard Core Top Level	+ 4.2	700 mm	1	
		Finished Level(Top)	+ 4.9	+ 4.9 + 4.9	13000 mm	
		Invert Level	+ 4.33	565 mm		
2	Point B & B'	Timber Top Level	+ 4.26	640 mm	Point B	
		LNC Layer Level	+ 4.21	690 mm		
		Hard Core Top Level	+ 4.13	765 mm	1	
		Finished Level(Top)	+ 4.9	+ 4.9	13000 mm	
	Point C & C'	Invert Level	+ 4.27	630 mm		
3		Timber Top Level	+ 4.19	705 mm	Point C	
		LNC Layer Level	+ 4.14	755 mm		
		Hard Core Top Level	+ 4.07	830 mm	12000 1	
		Finished Level(Top)	+ 4.9	+ 4.9	13000 mm	
		Invert Level	+ 4.2	695 mm		
4	Point D & D'	Timber Top Level	+ 4.13	770 mm	Point D	
		LNC Layer Level	+ 4.08	820 mm		
		Hard Core Top Level	+ 4.0	895 mm	20000 1	
		Finished Level(Top)	+ 4.9	+ 4.9	30000 mm	
		Invert Level	+ 4.055	845 mm		
5	Point E & E'	Timber Top Level	+ 3.98	920 mm	Point E	
		LNC Layer Level	+ 3.93	970 mm		
		Hard Core Top Level	+ 3.855	1045 mm		

Drain(Level)

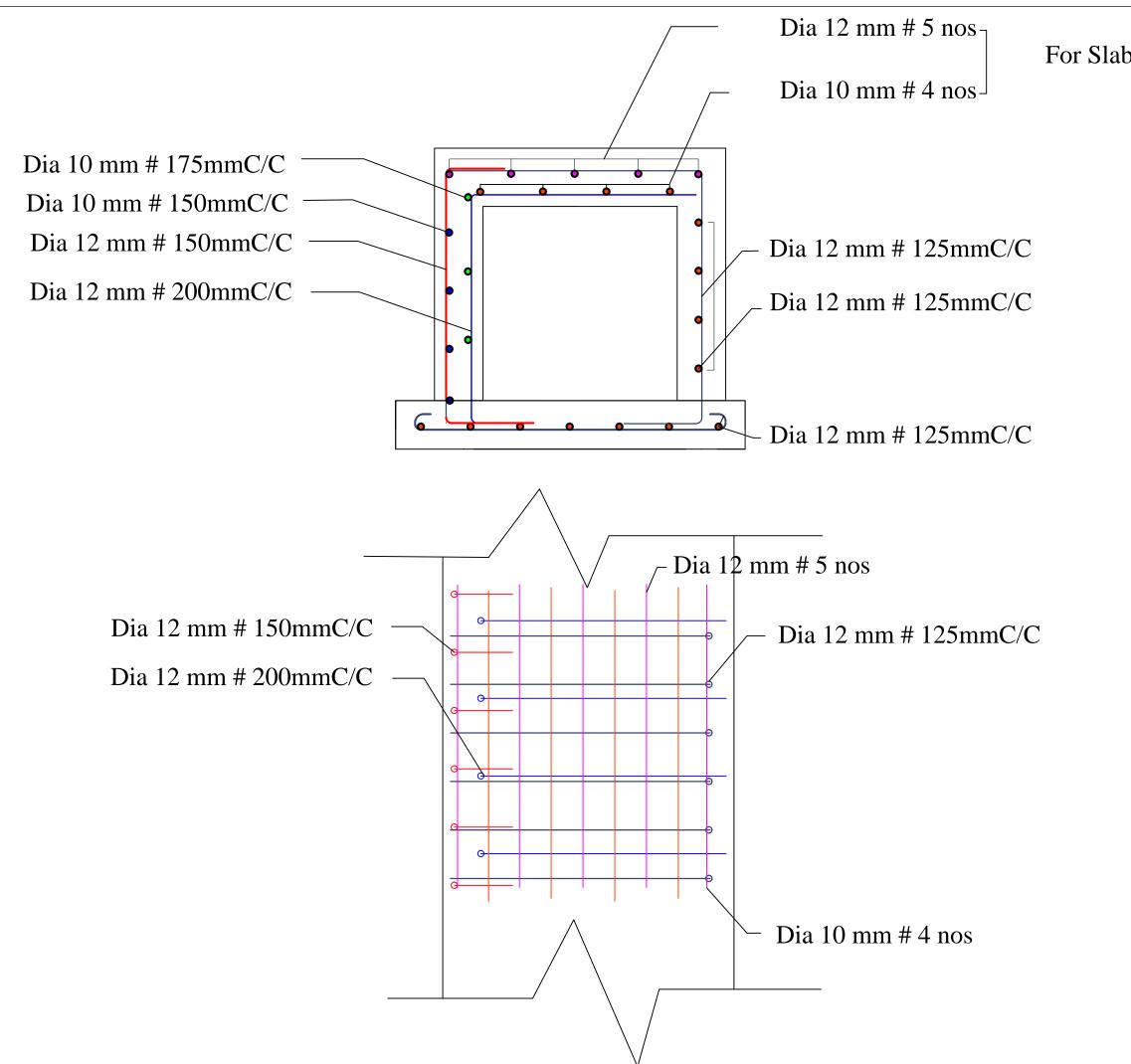
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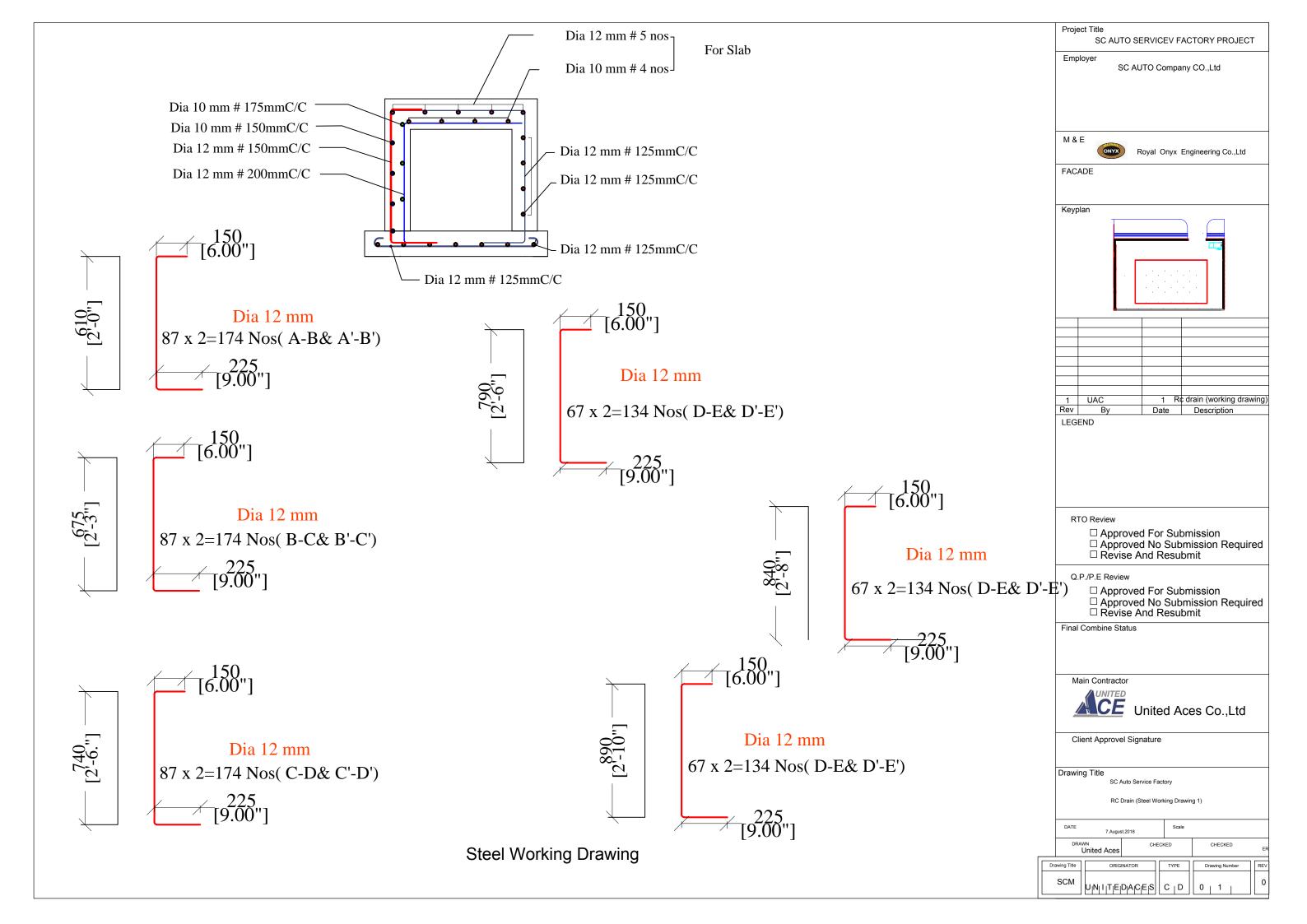
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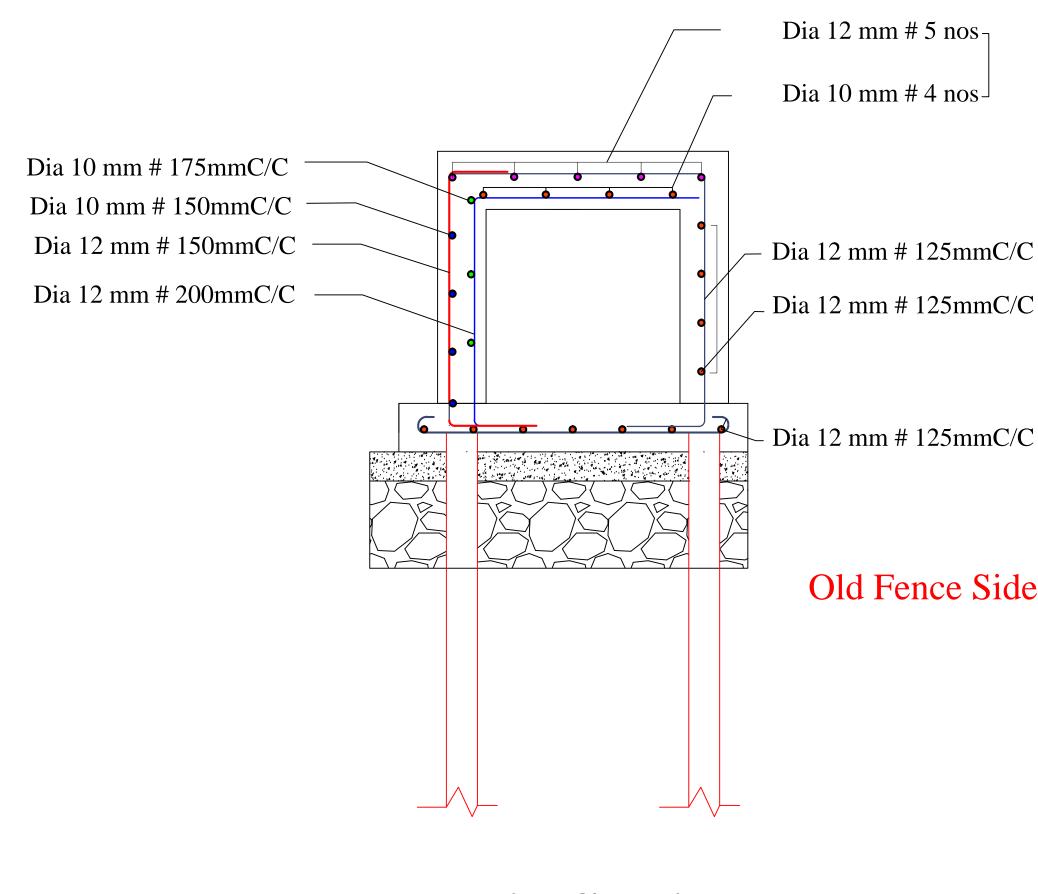


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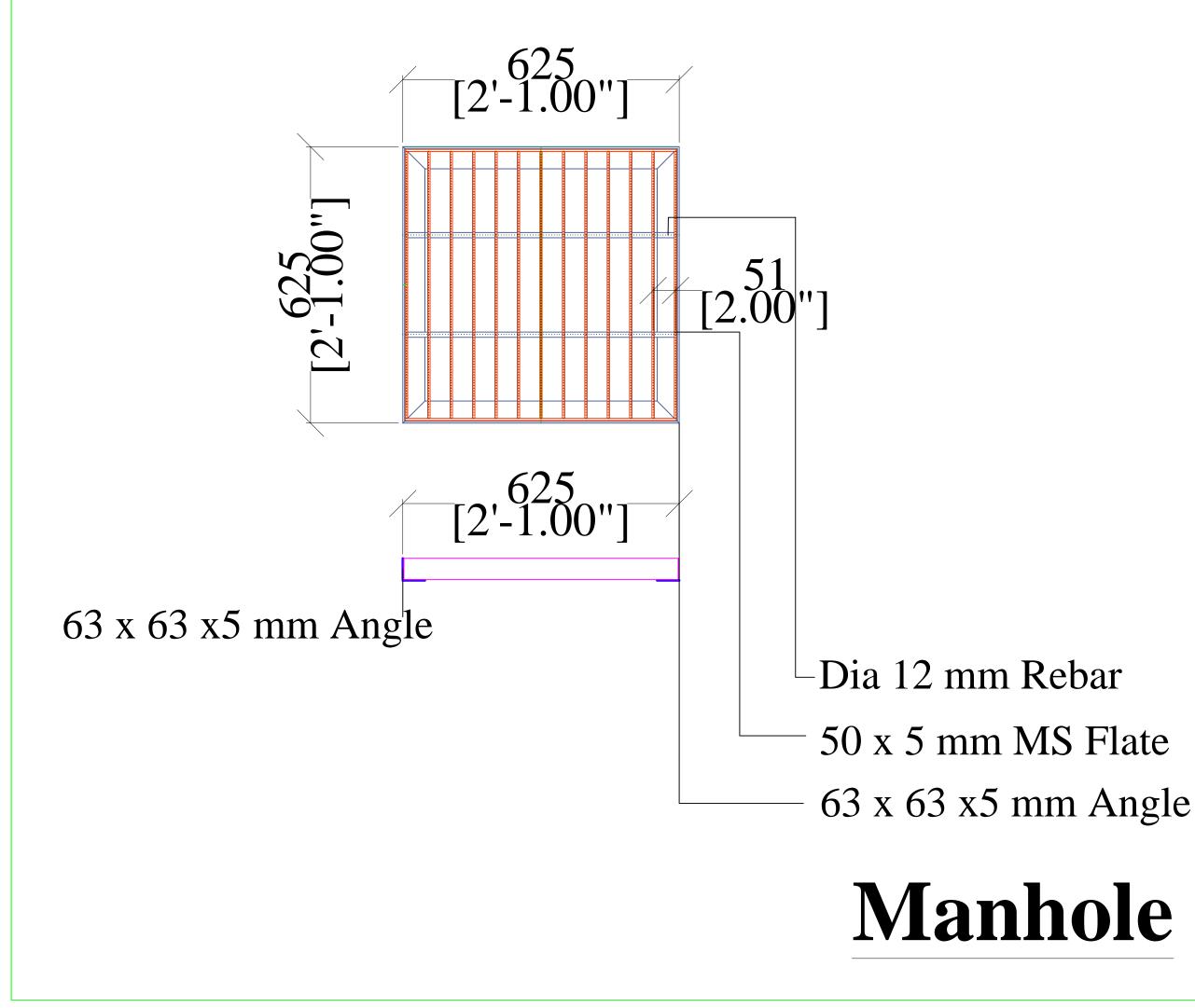
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	M & E Royal Onyx Engineering Co.,Ltd
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	Main Contractor
	Client Approvel Signature
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	RC Drain (steel Detail) DATE Scale
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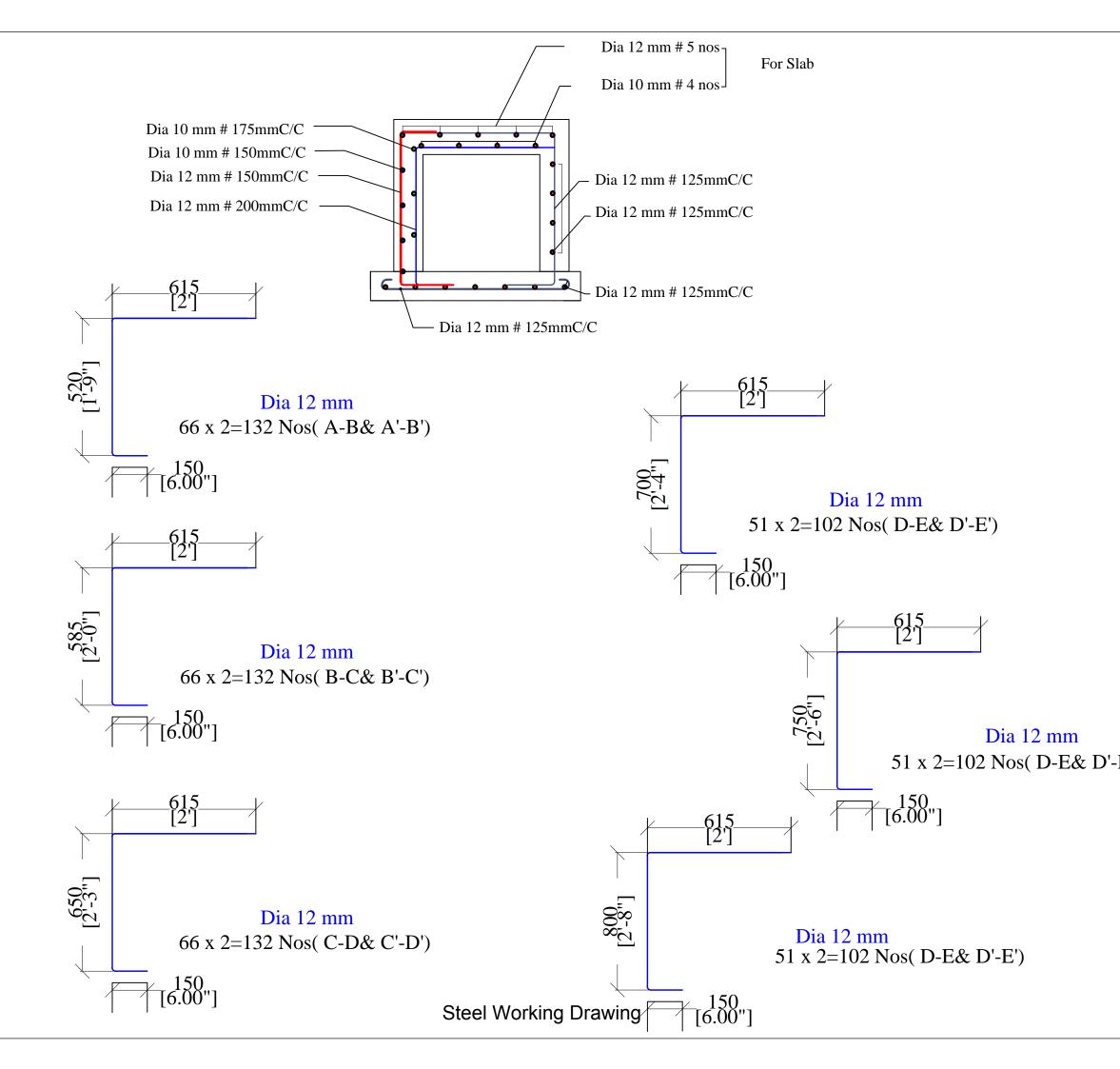




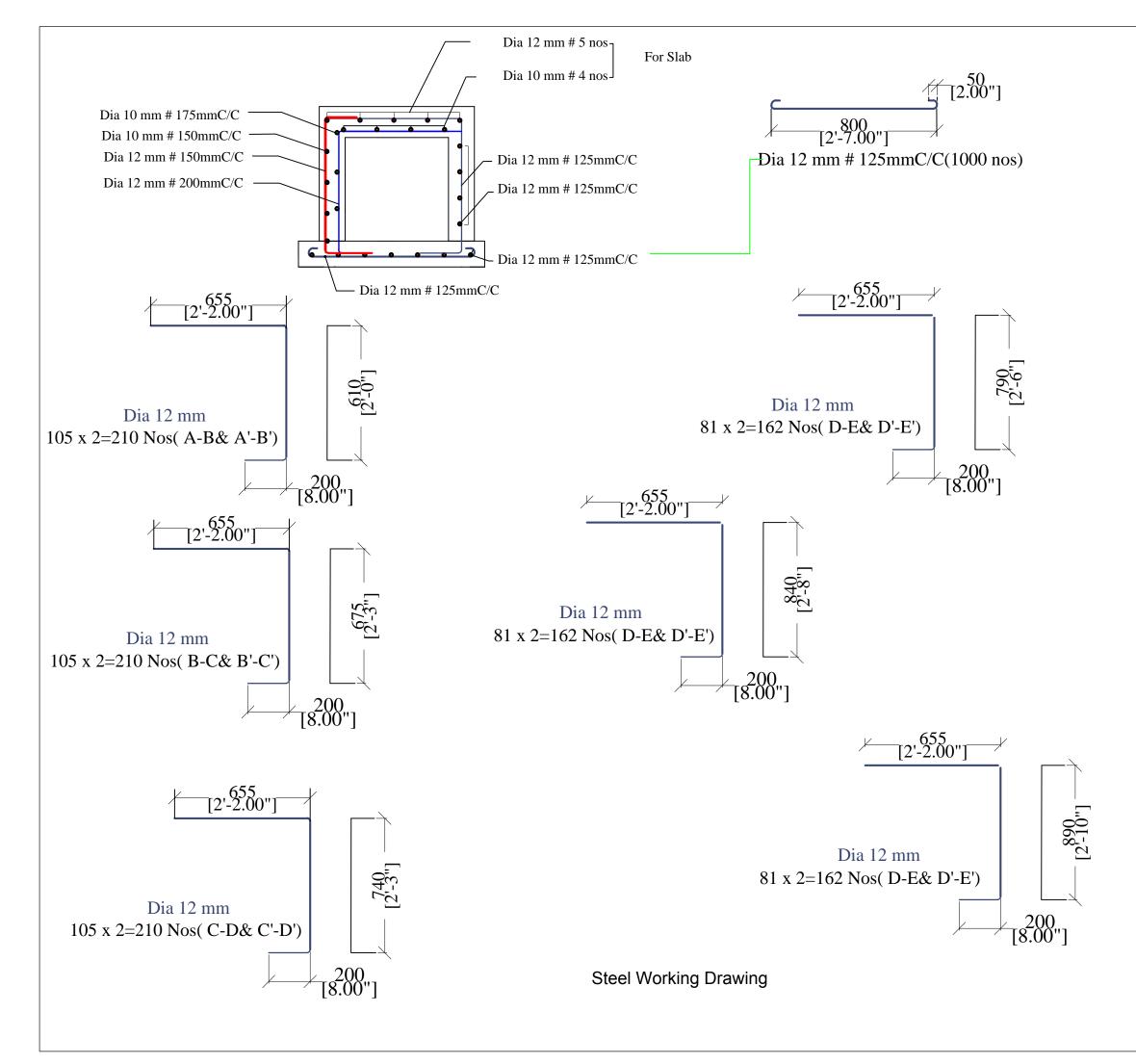
Drain Section

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	M & E Royal Onyx Engineering Co.,Ltd
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	Final Combine Status
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	United Aces Co.,Ltd
	Client Approvel Signature
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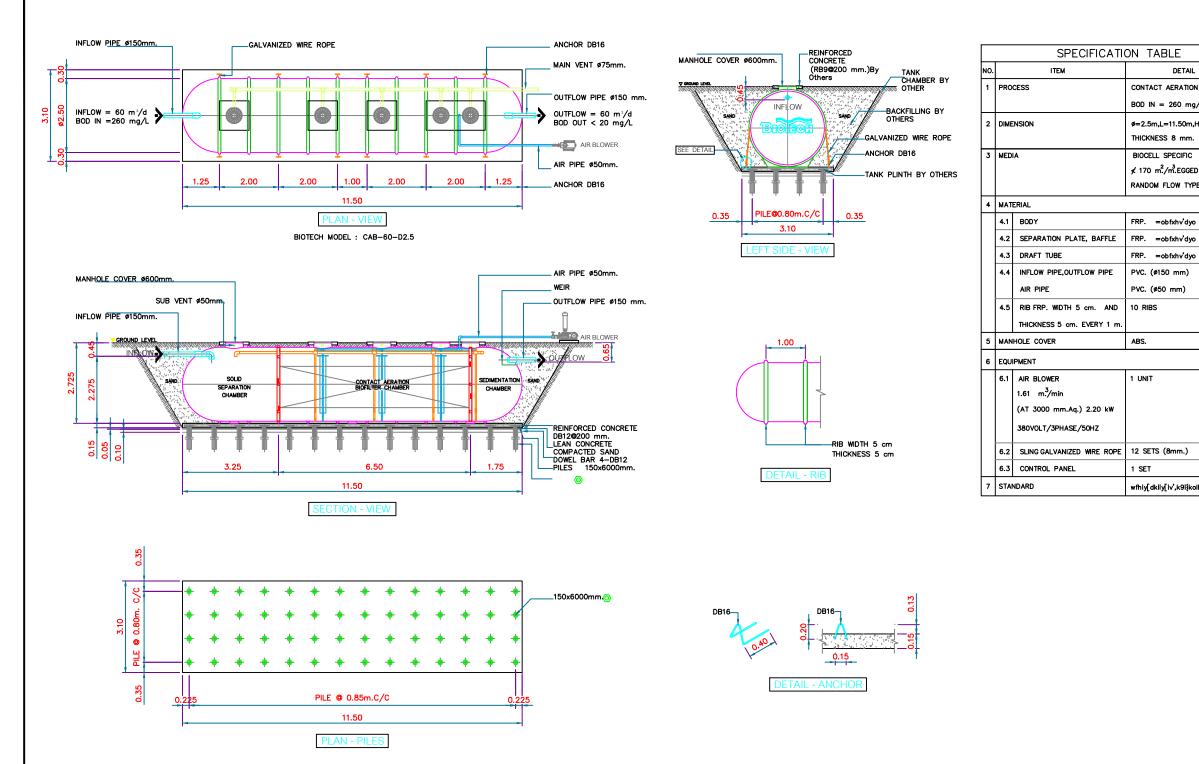
F	Project Title SC AUTO SERVICEV FACTORY PROJECT									
F	Empl	oyer	SC AL	JTO (Compa	iny	CO.,	Ltd		
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Initial Environmental Examination Report

"Manufacturing, Assembling and Sales of Buses, Coaches, Repair and Maintenance Services"

SC Auto (Myanmar) Co., Ltd.

APPENDIX (17): Bio-Septic Tank Process Description



N BIOFILTER
/L,BOD OUT < 20 mg/L.
H=2.725 m.
SURFACE AREA
) SHAPE,HDPE,
E (MEDIA VOLUME 14.92 m ³)
dkidyfdijvo
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lkd] ISO 9001 : 2008 fhkodkiz]b9

SHOP DRAWING

Description		
	Issue Date	Chec
- SHOP DRAWING	26.1.2017	CPW
		+
Issue Status:		
Client		
SC AUTO PRIV	ATE CO.,LTD.	
Main Contractor		-
MEP Engineer		
GLOBAL HI-T ONE STOP MARE EXAM Chan - & Soft bis Chan - & Soft bis	ECH veering services bet 30th & 31th St an Tep, Mandaloy.)(02)68498, (09)2019 schengineering@gmail.	213 com
Architect		
Civil Contractor		•
Civil Contractor		
Civil Contractor		
	Y PROJE	CT
Project	Y PROJE	ст
Project SC AUTO FACTOR	Y PROJE	CT
Project SC AUTO FACTOR Drawing Title SANITATION SYSTEM LAYOUT BIO TREATMENT TANK DETAIL Project No: Date: Scale: SC15 26 JAN 2017 N	.T.S	f Land:
Project SC AUTO FACTOR Drawing Title SANITATION SYSTEM LAYOUT BIO TREATMENT TANK DETAIL Project No: Date: Scale: SC15 26 JAN 2017 N Drawn: Checked: Approve	.T.S	f Land:
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BIOTECH'S FIBERGLASS REINFORCED PLASTIC (FRP) CHARACTERISTIC

Our prefabricated tanks are made with special fiberglass reinforced plastic (FRP) material which are proven to be 8 times stronger than polyethylene tanks. With its characteristic, FRP offers various benefits and features over polyethylene materials. These characteristic should be considered early in the stage of constructions.

Corrosion resistance – FRP do not rust, corrode, rot and resist against heat, UV lights, and most industrial and household chemicals wastes. Resistance to corrosion provides longer life and environmental exposure resistance to BIOTECH prefabricated tanks. Chances of tank replacement due to leakage or breakage which are costly, complicated, and undesirable are extremely low.

High Strength, Lightweight – FRP provide high strength to weight ratios exceeding those of aluminum, steel, concrete, or polyethylene with abrasion characteristic. FRP are able to handle compressive pressure very well which is mandatory for underground tanks installations where limited spaces are needed. These unique characteristics are also suitable for saving costs and reducing risks of damaging tanks during transportation domestically and internationally.

Customizable – With the ability to tailor and modify the design of FRP, BIOTECH prefabricated tanks are able to serve our customer with specific requirements such as customizing the thickness of FRP tanks, custom made water storage tanks or conical hatching tanks or even imaginative products. The only restriction is human's imaginations.

	CONCRETE MATERIAL	STAINLESS STEEL	POLYETHYLENE	FIBERGLASS REINFORCED
	MATERIAL	STEEL	(PE)	PLASTIC
Strength to weight ratio	X	V	V	V
Flexibility	Х	X	X	V
Heat resistance	٧	٧	Х	٧
UV resistance	V	٧	Х	٧
Chemical resistance	V	٧	Х	٧
Pressure resistance	V	Х	V	٧
Costs	Х	Х	V	٧
Transportation	Х	V	V	V

Comparison on material use

X = not capable

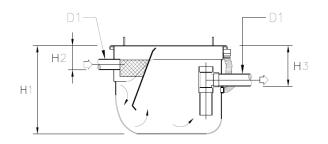
 \mathbf{V} = Highly recommended

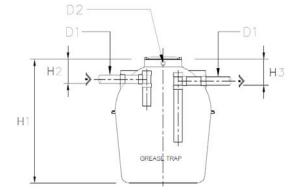
GREASE TRAP TANKS

GT series BIOTECH Grease Trap tanks designed for installation under kitchen sinks which makes them convenience for maintenance. GT series are squared shape grease trap tanks which is suitable for installing under sinks with different spaces customers' prefer. BIOTECH Grease Trap tanks compose of two chamber:

1. Solid and Grease separation chamber: FRP screener will separate food scraps from clogging other waste management process and acts as a first chamber to separate grease.

2. Main Grease separation chamber: This chamber will separate grease from wastewater with lower density of greases causing it to float.





BG series Our underground grease trap tanks are highly recommend for industries with numerous amount of grease being produced and/or whom who want spaces for operation with high grease trap performance tanks installed underground. BG tanks save spaces and does not interfere with factory, restaurant or other location looks while having high efficiency and capacity for grease storage. BG tanks will separate grease from wastewater and will float waiting for disposal.

Benefits of using grease trap tanks

- Reduce in unpleasant odor, sanitary, and looks that are

 irritating to daily life or business operation.
- Prevention against pipe clog and malfunctioning other wastewater treatment process that might not make them as efficient as it supposed to be.
- In many industries or household that produce grease and/or use cooking oil frequently should install grease trap tanks either under their sinks, outside their buildings, or undergrounds.
- Biotech's grease trap tanks are design to be place under the sinks or installed underground outside the building for the purpose of separating grease and food scraps into the sieve. Dumping food scraps directly into the tanks are not
 recommended.

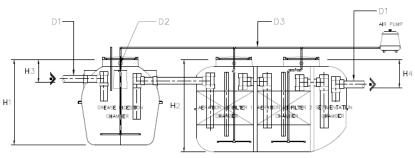
- Sink drainage have an average of 1400 mg. /L inflow, after grease trap process wastewater have an average BOD of 500-800 mg. /L.
- Grease trap tanks are capable of reducing BOD up to 64%

Suggestions

- Once water are treated from grease trap tanks, it is still mandatory to treat wastewater in the next process
- Food sieves should be dispose in to black bags daily (since food scraps takes 4-6 hours to rot)
- Disposal of grease should be done once per day into black bags.
- Tank should be clean every 2-4 weeks as grease will cause a disturbing looks.

GREASE DIGESTABLE TANKS

BOA Series Our enzyme grease digestion tanks are supported for any sizeable grease inflow. Enzymes are capable of eliminating grease with high performance through our dosing pump. This new innovation can save time, reduce work, and lower maintenance costs while offering a new method of grease elimination.

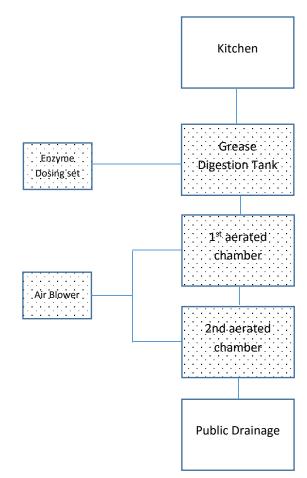


The series compose of three different types of tanks specifically for each individual purposes. With enzyme feeder feeding BIOTECH special enzyme in to first grease digestion chamber, owner does not have to worry about disposal of grease which were unpleasant and time consuming. Owners are now only responsible for easy process of mixing the enzyme with water into the feeder tank. Once set, BIOTECH specialize enzyme will consume oil and grease admirably. BOA tank set are suitable for treating wastewater from top to bottom process without requiring further secondary treatment tanks.

Flow Diagram

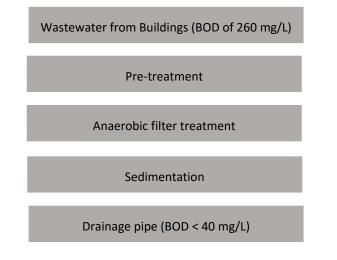
Benefits of Biotech enzyme grease digestion tanks

- BOA series are suitable for fast food industries, restaurants, cafeteria, and other buildings with small to large loading of grease.
- There is no need to dispose oil and grease traditional way. Automatic dispenser will do it for you.
- NO unpleasant odor.
- Installation are done underground saving spaces and does not interfere with building looks.
- Sink drainage have an BOD average of 1400 mg. /Cubic inflow, after using BOA series wastewater have BOD less than 20 mg. /cubic. and FOG less than 10mg./I
- BOA has over 95% wastewater treatment efficiency.
- BOA series comes with Air blower and Enzyme dosing tank for performing wastewater treatment
- Wastewater are treated and will be dispose into public drainage without harming the environment.



BIOTECH UN-OXYGENATED TREATMENT SERIES

Anaerobic treatment process



Working process

Biotech's un-oxygenated tanks are main treatment process that is used to treat wastewater from the whole building's drainage pipe. It is designed with highest retention time possible for an effective treatment using anaerobic treatment system. The tanks are separated into two chamber.

- Solid Separation chamber: This chamber are designed to separate suspended solid and sludge from wastewater for anaerobe bacteria to digest efficiently. Under this segment, it prevent solids and scum to interfere with next chamber nor to clog up the pipes allowing only wastewater to pass through.
- Anaerobic filtration chamber: This chamber manage to use anaerobe bacteria to treat wastewater by giving anaerobe bacteria a specially designed media host (BIOCELL) to grow and expand for higher efficiency. Sedimentation are included in this chamber

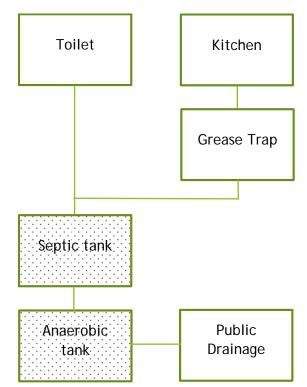
BT series benefits:

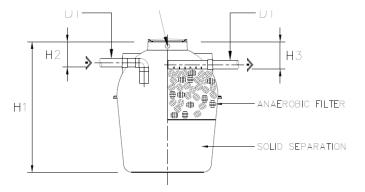
- Oval shape designed to handle 360 degree pressure
- BT series tanks are available with on ground and underground model.
- Tank's Capacity ranging from 600 L 6200 L
- Suitable for any sizes of housing and any small to medium buildings

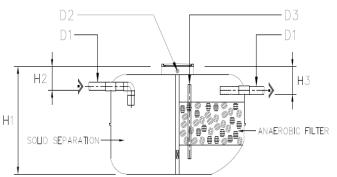
Benefit of using Biotech un-oxygenated treatment series

- No consumption of electricity (energy saving)
- Easy to maintenance
- Fast and easy installation
- BOD reduction lower than 40mg./L 60mg./L
- Meet the Environmental standard of building classification C, D and E
- Treated water from this series can be dispose into public drainage and would not harm the environment.

Flow Diagram





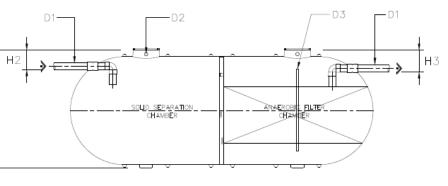


BT-R Series benefits:

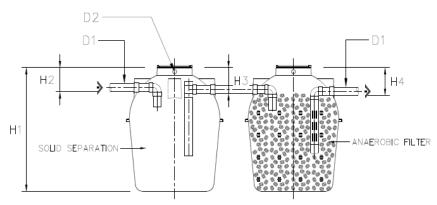
- Rectangular shape design for space saving with small footprint
- Easy installation and maintenance
- BT series tanks are available with on ground and underground model.
- Tank's Capacity ranging from 1300 L 17500 L
- Suitable for any sizes of housing and any small to medium buildings

BT-K series benefits:

- Capsule shape design for large wastewater treatment capacity
- BT series tanks are available with on ground and underground model.
- Tank's Capacity ranging from 6200 L^{H1} – 81300 L
- Suitable for all building size especially large buildings.

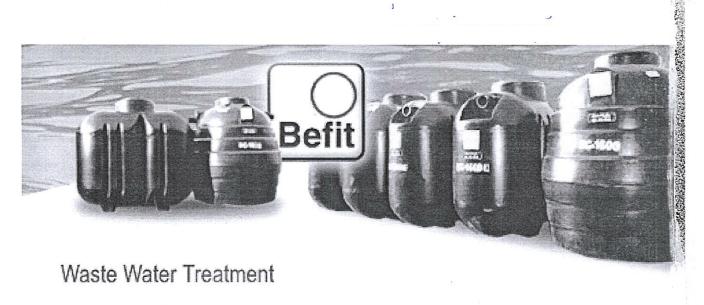


- Tank's body is reinforced with Fiberglass Reinforced Plastic ribs every 1 meter for higher strength
- Tank's stand are made from Fiberglass Reinforced Plastic ribs capable of carrying fully operating tank's weight
- Perfect replacement of traditional concrete wastewater treatment plant
- BT-K series comes with steel sling for holding tank's body in place



BS-BF series benefits:

- One set include two tanks of Septic tank and anaerobic filtration tank
- Installation and wastewater piping of BS-BF set can be done in various ways for spacing and footprint issue
- Replacement and fixing of both tanks can be done easily and less costly
- Capable of treating wastewater from different building's drainage pipe location
- Tank's Capacity ranging from 1200 L 12400 L
- Suitable for all building size

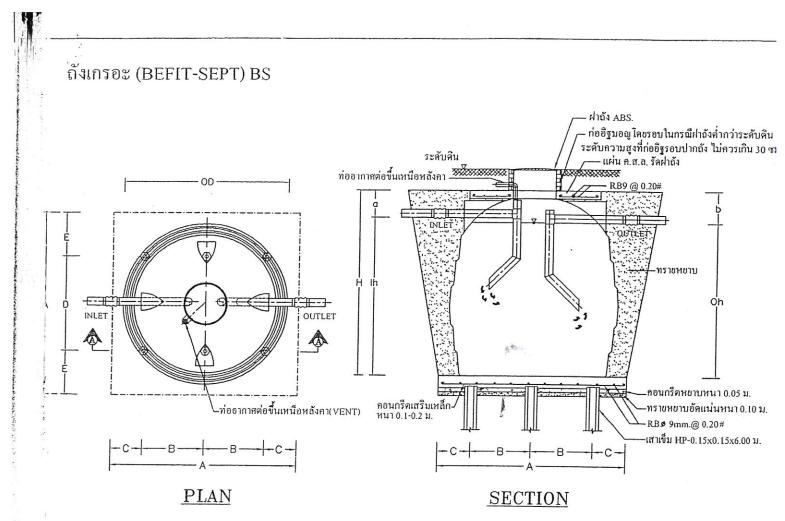




Befit Sept : BS

Fermenting tank is the first stage in the treatment which must be used in combination with a filter t which may be an unaerated or aerated system. This tank collects the waste, disintegrates them, and all the clear water flow to the next treatment.

		House (person)				ctory (person)	School (person)		
Мо	del	Bathroom only (60 liter/person/day)		All waste water (200 liter/person/day)		room only r/person/day)	Bathroom only (30 liter/person/day		
	800	13	÷	4		13		26	
1	1000	16		5		16		33	į
	1200	20		6		20		40	
	1600	26		8		26		40	
BS 2	2000	33		10		33 _		66	
	3000	50		15		50		100	
4	4000	66		20		66		133	
1	5000	83		25		83		166	8 11 - 12
(6000	100		30		100		200	



หมายเหตุ การใช้เสาเข็มกับขนาดถัง รุ่น 1000 - 2000 ใช้เสาเข็มจำนวน 4 ด้น รุ่น 3000 - 6000 ใช้เสาเข็มจำนวน 6 ด้น การเลือกใช้เสาเข็มขึ้นอยู่กับคุลย์พินิจของวิศวกรโครงสร้าง

MODEL		ขนาดถัง			ระคับท่อ		ขนาดฐาน					ขนาดท่อ	
รุ่น	H	Ih	Oh	OD	เข้า(a)	ออก(b)	A	В	C	D	E	ท่อระบายอากาศ	ท่อเข้า-ท่อออก
3S-800	1250	995	945	1150	255	305	1400	-	-	700	350	50	100
JS-1000	1300	1020	970	1200	280	330	1400	-	-	700	350	50	· 100
3S-1200	1435	1160	1105	1392	280	330	1400	-	-	700	350	50	100
3S-1600	1490	1240	1180	1430	250	310	1600	-	-	800	400	50	100
BS-2000	1670	1410	1350	1460	260	320	1700	· _	-	850	425	50	100
3S-3000	1880	1600	1540	1700	280	340	1900	700	250	900	500	50	100
3S-4000	· 1910	1650	1590	1850	260	320	2090 [.]	750	295	1090	500	50	100
IS-5000	2190	1930	1870	1920	260	320	2170	750	335	1010	580	50	100
3S-6000	2330	1990	1930	2100	340	400	2300	750	400	1200	550	50	100
4;S-6000	2330	1990	1930	2100	340	400	2300	750	400	1200	550	50	100

ตารางแสดงขนาดถังเกรอะ(mm.)

Jef

RUNGSUPHAKIJ CO.,LTD.

49/105 ซอยลาคพร้าว 71 หมู่ 7 ถนนลาคพร้าว แขวงลาคพร้าว เขตลาคพร้าว กรุงเทพฯ 10310 โทรศัพท์ 0-2530-0677 โทรสาร 0-2530-1466