SAFETY DATA SHEET



Date of issue/Date of revision18 August 2023Version 5

Section 1. Identification			
Product code	: 00334076		
Product name	: AMERCOAT 235 OXIDE RED RESIN		
Product type	: Liquid.		
Relevant identified uses of the substance or mixture and uses advised against			
Product use	Coating. Industrial applications, Used by spraying.		
Supplier's details	: PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737		
Emergency telephone number (with hours of operation)	: CHEMTREC +(65)-31581349 (CCN 17704)		

Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements, including precautionary statements

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Mammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause cancer. Toxic to aquatic life with long lasting effects.
Precautionary statements	

Singapore	English (US)	Page: 1/14
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Product name AMERCOAT 235 OXIDE RED RESIN

Section 2. Hazards identification

Prevention	:	Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.
Response	:	Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	:	Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Not applicable.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
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CAS number/other identifiers

CAS number	: Not applicable.
EC number	: Mixture.

Ingredient name	%	CAS number
F alc , not containing asbestiform fibres	25 - <50	14807-96-6
bis-[4-(2,3-epoxipropoxi)phenyl]propane	10 - <20	1675-54-3
butan-1-ol	5 - <10	71-36-3
Solvent naphtha (petroleum), light aromatic	5 - <10	64742-95-6
Polyisocyanate, Alkyl Phenol Blocked	3 - <5	SUB104447
1,2,4-trimethylbenzene	3 - <5	95-63-6
heptan-2-one	1 - <3	110-43-0
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	0.1 - <0.3	123-26-2
4-nonylphenol, branched	0.1 - <0.3	84852-15-3
cumene	0.1 - <0.3	98-82-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/e	effec	cts, acute and delayed
Potential acute health effe	<u>cts</u>	
Eye contact	:	Causes serious eye damage.
Inhalation	:	May cause respiratory irritation.
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symp	oton	<u>15</u>
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
Indication of immediate mee	<u>dica</u>	l attention and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Singapore	English (US)	Page: 3/14
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Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides Cyanate and isocyanate. hydrogen cyanide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.			
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.			

Methods and materials for containment and cleaning up

Product name AMERCOAT 235 OXIDE RED RESIN

Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits				
√alc , not containing asbesti	bres Workplace Safety and Health Act (Singapore, 2/2006).				
butan-1-ol	PEL (long term): 2 mg/m ³ 8 hours. Workplace Safety and Health Act (Singapore, 2/2006).	PEL (long term): 2 mg/m ³ 8 hours. Workplace Safety and Health Act (Singapore, 2/2006).			
1,2,4-trimethylbenzene	PEL (short term): 152 mg/m ³ 15 minute PEL (short term): 50 ppm 15 minutes. Workplace Safety and Health Act (Singapore, 2/2006). [Trimethyl benzer PEL (long term): 123 mg/m ³ 8 hours.	PEL (short term): 50 ppm 15 minutes. Workplace Safety and Health Act (Singapore, 2/2006). [Trimethyl benzene]			
heptan-2-one	PEL (long term): 25 ppm 8 hours. Workplace Safety and Health Act (Singapore, 2/2006).	PEL (long term): 25 ppm 8 hours. Workplace Safety and Health Act (Singapore, 2/2006).			
N,N'-ethane-1,2-diylbis(12-h	voctadecan-1-amide) PEL (long term): 50 ppm 8 hours. ACGIH TLV (United States). TWA: 3 mg/m ³ Form: Respirable	ACGIH TLV (United States). TWA: 3 mg/m ³ Form: Respirable			
cumene	TWA: 10 mg/m ³ Form: Total dust Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 246 mg/m ³ 8 hours. PEL (long term): 50 ppm 8 hours.				
Recommended monitoring procedures	eference should be made to appropriate monitoring standards. Reference to ational guidance documents for methods for the determination of hazardous ubstances will also be required.				
ppropriate engineering ontrols	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.				
nvironmental exposure ontrols	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.				
ndividual protection measu					
Hygiene measures	/ash hands, forearms and face thoroughly after handling chemical products, b ating, smoking and using the lavatory and at the end of the working period. ppropriate techniques should be used to remove potentially contaminated cloth contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety howers are close to the workstation location.	ning.			
Eye/face protection	hemical splash goggles and face shield.				

Singapore	English (US)	Page: 6/14

Product name AMERCOAT 235 OXIDE RED RESIN

Section 8. Exposure controls/personal protection

Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

<u>Appearance</u>					
Physical state	iquid.				
Color	Red.				
Odor	Characteristic.				
рН	insoluble in water.				
Boiling point	37.78°C (>100°F)				
Flash point	Closed cup: 36.67°C (98°F)				
Evaporation rate	.36 (butyl acetate = 1)				
Flammability (solid, gas)	quid				
Vapor pressure	.8 kPa (5.9 mm Hg) (at 20°C)				
Vapor density	Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane). Weighted average: 8.27 (Air = 1)				
Relative density	.4				
Colubility/ico)	Media Result				
Solubility(ies)	old water Not soluble				
Auto-ignition temperature	owest known value: 355°C (671°F) (butan-1-ol).]			
Viscosity	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)				

Singapore	English (US)	Page: 7/14
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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	-
light aromatic				
0	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan- 1-amide)				
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
••	LD50 Oral	Rat	1300 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion

Singapore	English (US)	Page: 8/14
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Section 11. Toxicological information

Product/ingredient name	Result		Species	Scor	e Exp	osure	Observation		
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritan	t	Rabbit	-	24 h	ours	-		
	Eyes - Redness c conjunctivae	of the	Rabbit	0.4	24 h	ours	-		
	Skin - Edema		Rabbit	0.5	4 ho	Irs	_		
	Skin - Erythema/E	Eschar	Rabbit	0.8	4 ho		-		
	Skin - Mild irritant		Rabbit	-	4 ho		-		
4-nonylphenol, branched	Skin - Erythema/	Eschar	Rabbit	4	-		-		
Conclusion/Summary									
	There are no data								
Eyes :	There are no data	available	on the mixture	e itself.					
Respiratory :	There are no data	available	on the mixture	e itself.					
<u>Sensitization</u>									
Product/ingredient name	Route of exposure	Species	i		Result				
pís-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse			Sensitizing	Sensitizing			
Conclusion/Summary									
Skin :	There are no data	available	on the mixture	e itself.					
Respiratory :	There are no data	available	on the mixture	e itself					
Mutagenicity		available							
	There are no data	ovoilabla	on the mixtur	o itoolf					
Carcinogenicity		available							
	There are no data	available	on the mixtur	e itself					
Reproductive toxicity									
	There are no data	available	on the mixtur	e itself.					
Teratogenicity									
	There are no data	available	on the mixtur	e itself.					
Specific target organ toxicit									
Name									
Name			Category		Route of	Та	arget organs		
		-		e	Route of exposure				
Alc , not containing asbestif	orm fibres		Category Category 3	e		Re	espiratory tract		
	orm fibres			e		Re irr Re	espiratory tract itation espiratory tract		
■ alc , not containing asbestif	orm fibres		Category 3 Category 3	e		Re irr Re irr	espiratory tract itation espiratory tract itation		
✓alc , not containing asbestif butan-1-ol		-	Category 3 Category 3 Category 3	e		Re irr Re irr Na	espiratory tract itation espiratory tract itation arcotic effects		
✓alc , not containing asbestif butan-1-ol Solvent naphtha (petroleum).	, light aromatic		Category 3 Category 3 Category 3 Category 3	e		Re irr Re irr Na Na	espiratory tract itation espiratory tract itation arcotic effects arcotic effects		
√alc , not containing asbestif butan-1-ol	, light aromatic		Category 3 Category 3 Category 3	e		Re irr Re irr Na Na Re	espiratory tract itation espiratory tract itation arcotic effects		
✓alc , not containing asbestif butan-1-ol Solvent naphtha (petroleum)	, light aromatic		Category 3 Category 3 Category 3 Category 3	e		Re irr Re irr Na Re irr Re	espiratory tract itation espiratory tract itation arcotic effects arcotic effects espiratory tract itation espiratory tract		
✓alc , not containing asbestif butan-1-ol Solvent naphtha (petroleum) Polyisocyanate, Alkyl Phenol	, light aromatic		Category 3 Category 3 Category 3 Category 3 Category 3	e		Re irr Re irr Na Re irr Re irr	espiratory tract itation espiratory tract itation arcotic effects arcotic effects espiratory tract itation		

Singapore	English (US)	Page: 9/14
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Section 11. Toxicological information

				irritation
Specific target organ toxici	<u>ty (repeated exposure)</u>			
Name		Category	Route of exposure	Target organs
øumene		Category 2	-	-
Aspiration hazard				
Name			Result	
Solvent naphtha (petroleum cumene), light aromatic		ASPIRATION HAZA ASPIRATION HAZA	
nformation on the likely routes of exposure	: Not available.			
Potential acute health effect	t <u>s</u>			
Eye contact	: Causes serious eye dama	ge.		
Inhalation	: May cause respiratory irrita			
Skin contact	: Causes skin irritation. Def	-	•	Illergic skin reaction.
Ingestion	: No known significant effec	ts or critical h	azards.	
Symptoms related to the ph	ysical, chemical and toxicolo	ogical charac	teristics	
Eye contact	: Adverse symptoms may in pain watering redness	clude the follo	owing:	
Inhalation	: Adverse symptoms may in respiratory tract irritation coughing	clude the follo	owing:	
Skin contact	: Adverse symptoms may in pain or irritation redness dryness cracking blistering may occur	clude the follo	owing:	
Ingestion	: Adverse symptoms may in stomach pains	clude the follo	owing:	
Delayed and immediate effe	cts and also chronic effects	from short a	nd long term expos	ure
<u>Short term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				

English (US)	Page: 10/14
	English (US)

Section 11. Toxicological information

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: M ay cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (vapors)	9641.63 mg/kg 121.81 mg/l 10.44 mg/l

Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l Acute LC50 0.221 mg/l	Crustaceans - <i>Moina macrocopa</i> Fish	48 hours 96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

Singapore	English (US)	Page: 11/14
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Section 12. Ecological information

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Reptan-2-one N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	OECD 310 -	69 % - Readily - 28 days 63 % - 28 days	-	-
Conclusion/Summary	ary : There are no data available on the mixture itself.			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
s-[4-(2,3-epoxipropoxi)	-	-	Not readily
heptan-2-one N,N'-ethane-1,2-diylbis	-	-	Readily Readily
(12-hydroxyoctadecan-	-	-	Readily
1-amide)			

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
butan-1-ol 1,2,4-trimethylbenzene heptan-2-one N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	1 3.63 2.26 >6	- 120.23 - -	Low Low Low High
4-nonylphenol, branched cumene	5.4 3.55	251.19 35.48	Low Low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or
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Section 12 Dispacel consideration

Section 13. Disposal considerations

grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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	UN	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class(es)	3	3	3	
Packing group		III		
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane, Solvent naphtha (petroleum), light aromatic)	Not applicable.	

Additional information

- UN : None identified.
 - : The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
- **IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

IMDG

International regulations Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

	Singapore	English (US)	
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Section 15. Regulatory information

Not listed.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 18 August 2023
Date of previous issue	: 3/12/2022
Version	: 5
Prepared by	: EHS
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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