SAFETY DATA SHEET

Date of issue/Date of revision

: 18 April 2024

Version

: 2

pPG

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: SIGMASHIELD 880 GF BASE RAL 6028
Product code	: 000001198541
Other means of identificati 00472909	on
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of Sigma Coatings PTY 9 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800	the safety data sheet
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone number	: +27 51 444 2134

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SIGMASHIELD 880 GF BASE	AL 6028	
SECTION 2: Hazards	dentification	
Hazard pictograms		
Signal word	Warning	
Hazard statements	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid releathe environment. Avoid breathing vapour.	ase to
Response	Take off contaminated clothing and wash it before reuse.	
Storage	Not applicable.	
Disposal	Dispose of contents and container in accordance with all local, regional, national ar international regulations. P280, P210, P273, P261, P362 + P364, P501	nd
Hazardous ingredients	øís-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700 <mw<=1100) Phenol, methylstyrenated oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</mw<=1100) 	
Supplemental label elements	Contains epoxy constituents. May produce an allergic reaction.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.	
Special packaging requiren	<u>nts</u>	
Containers to be fitted with child-resistant fastenings	Not applicable.	
Tactile warning of danger	Not applicable.	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB	This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.	0
Other hazards which do	Prolonged or repeated contact may dry skin and cause irritation.	

not result in classification

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

English (GB)

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SECTION 4: First aid measures

4.1 Description of first aid m	neasures
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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 recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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.

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
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/sy	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing	: Use dry chemical, CO ₂ , water spray (fog) or foam.
media Unsuitable extinguishing	: Do not use water jet.
media	. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

Hazards from the substance or mixture	: Flammable liquid and vapour. 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 harmful 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 combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedur	es	
For non-emergency personnel	:	No action shall be taken involving any perso Evacuate surrounding areas. Keep unnece entering. Do not touch or walk through spilt flares, smoking or flames in hazard area. A adequate ventilation. Wear appropriate res on appropriate personal protective equipme	ssary and unprotected personnel fro material. Shut off all ignition source void breathing vapour or mist. Provi pirator when ventilation is inadequate	es. No ide
For emergency responders	:	If specialised clothing is required to deal with Section 8 on suitable and unsuitable materia emergency personnel".		
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff a sewers. Inform the relevant authorities if the pollution (sewers, waterways, soil or air). W the environment if released in large quantities	e product has caused environmental /ater polluting material. May be harr	
6.3 Methods and material for	со	ntainment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers fr explosion-proof equipment. Dilute with wate or if water-insoluble, absorb with an inert dry disposal container. Dispose of via a license	er and mop up if water-soluble. Alter y material and place in an appropriat	rnatively,
Large spill	:	explosion-proof equipment. Approach the m sewers, water courses, basements or confir treatment plant or proceed as follows. Cont combustible, absorbent material e.g. sand, o place in container for disposal according to	leak if without risk. Move containers from spill area. Use spark-proof tools and osion-proof equipment. Approach the release from upwind. Prevent entry into ers, water courses, basements or confined areas. Wash spillages into an effluent ment plant or proceed as follows. Contain and collect spillage with non- bustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth an e in container for disposal according to local regulations. Dispose of via a licensed the disposal contractor. Contaminated absorbent material may pose the same and as the spilt product.	
6.4 Reference to other sections	:	See Section 1 for emergency contact inform See Section 8 for information on appropriate See Section 13 for additional waste treatme	e personal protective equipment.	
		English (GB)	South Africa	5/16

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°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. Eliminate all ignition sources. Separate from oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values			
	DOL OEL (South Afric	DOL OEL (South Africa, 3/2021).		
	TWA: 4 mg/m ³ 8 hours	s. Form: Respirable fraction		
barium sulfate	DOL OEL (South Afric	a, 3/2021).		
	TWA: 10 mg/m ³ 8 hou	rs. Form: Inhalable fraction		
xylene	DOL OEL (South Afric	DOL OEL (South Africa, 3/2021). [xylene, o-, m-, p- or mixed		
	isomers] Absorbed through skin.			
	TWA: 200 ppm 8 hours.			
	STEL: 300 ppm 15 mi	STEL: 300 ppm 15 minutes.		
2-methylpropan-1-ol	DOL OEL (South Africa, 3/2021).			
	TWA: 100 ppm 8 hours.			
glass, oxide, chemicals	DOL OEL (South Africa, 3/2021). [synthetic vitreous fibres [SVF]:			
	continuous filament glass fibres]			
<u>'</u>	English (GB)	South Africa	6/16	

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		TWA: 2 f/ml 8 hours. Form: Respirable fibres: length> 5 μ m; aspect ratio \ge 3:1 as determined by the membrane filter method at 400-450X magnification (4mm objective), using phase-contrast illumination. TWA: 10 mg/m ³ 8 hours.
with 1,3	oxyoctadecanoic acid, reaction products -benzenedimethanamine and ethylenediamine	ACGIH TLV (United States). TWA: 10 mg/m³ Form: Inhalable particle TWA: 3 mg/m³, (inhalable dust) Form: Respirable particle

Biological exposure indices

Product/ingredie	nt name	Exposure indices			
₩ylene		DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.			
Recommended monitoring procedures	Standard EN 689 by inhalation to o strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as the following: European 9 (Workplace atmospheres - Guidance for the assessment of exposure chemical agents for comparison with limit values and measurement ean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and s) European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical nee to national guidance documents for methods for the determination bstances will also be required.			
.2 Exposure controls					
Appropriate engineering controls	other engineerin recommended o	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment.			
Individual protection measu	res				
Hygiene measures	eating, smoking Appropriate tech Contaminated w contaminated clo	rearms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. Iniques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.			
Eye/face protection Skin protection	: Chemical splash	goggles.			
Hand protection	worn at all times necessary. Con- during use that the noted that the tim glove manufactu protection time of frequently repear (breakthrough tim When only brief (breakthrough tim The user must co product is the mode	ant, impervious gloves complying with an approved standard should be when handling chemical products if a risk assessment indicates this is sidering the parameters specified by the glove manufacturer, check he gloves are still retaining their protective properties. It should be ne to breakthrough for any glove material may be different for different irrers. In the case of mixtures, consisting of several substances, the of the gloves cannot be accurately estimated. When prolonged or ted contact may occur, a glove with a protection class of 6 me greater than 480 minutes according to EN 374) is recommended. contact is expected, a glove with a protection class of 2 or higher me greater than 30 minutes according to EN 374) is recommended. heck that the final choice of type of glove selected for handling this ost appropriate and takes into account the particular conditions of use, e user's risk assessment.			
Gloves	: butyl rubber				

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Body protection	performed and the ri handling this produc static protective clot should include anti-s	equipment for the body should be selecter isks involved and should be approved by a t. When there is a risk of ignition from sta hing. For the greatest protection from sta static overalls, boots and gloves. Refer to rmation on material and design requireme	a specialist before atic electricity, wear anti- tic discharges, clothing European Standard EN
Other skin protection		r and any additional skin protection meas eing performed and the risks involved and ndling this product.	
Respiratory protection	hazards of the produ are exposed to conc certified respirators. with an approved sta	must be based on known or anticipated e uct and the safe working limits of the select centrations above the exposure limit, they Use a properly fitted, air-purifying or air-f andard if a risk assessment indicates this g to EN140. Filter type: organic vapour (cted respirator. If workers must use appropriate, fed respirator complying is necessary. Wear a
Environmental exposure controls	they comply with the cases, fume scrubbe	tilation or work process equipment should requirements of environmental protection ers, filters or engineering modifications to reduce emissions to acceptable levels.	n legislation. In some

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance					
Physical state	:	Liquid.			
Colour	:	Green.			
Odour	:	Aromatic. [Slight]			
Odour threshold	:	Not available.			
Melting point/freezing point	:	May start to solidify at the follow based on data for the following Weighted average: -17.85°C (-0	ingredient: bi		
Initial boiling point and boiling range	1	>37.78°C			
Flammability	:	Not available.			
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1	.7% Upper:	10.9% (2-met	hylpropan-1-ol)
Flash point	:	Closed cup: 37°C			
Auto-ignition temperature	:	Ingredient name	°C	°F	Method
		rethylpropan-1-ol	415	779	
Decomposition temperature	:	Stable under recommended sto	rage and han	dling conditio	ns (see Section 7).
рН	1	Not applicable.			
Viscosity	1	Kinematic (room temperature): Kinematic (40°C): >21 mm²/s	>400 mm²/s		
Viscosity	1	60 - 100 s (ISO 6mm)			
Solubility(ies)	1				
Media		Result			
cold water		Not soluble			
Partition coefficient: n-octanol/ water	:	Not applicable.			
Vapour pressure	:				

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SECTION 9: Physical and chemical properties

			Vapou	Vapour Pressure at 20°C			Vapour pressure at 5	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value acetate	e: 0.77 (xy	ene) V	Veighted avera	ige: 0.730	compared	d with butyl
Relative density	:	1.65						
Vapour density	:	Image: Fighest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane). Weighted average: 9.51 (Air = 1)						
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.					nixture of		
Oxidising properties	:	Product does not present an oxidizing hazard.						
Particle characteristics								

9.2 Other information

No additional information.

SECTION 10: Stabilit	SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.				
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.				
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
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•				
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl]	LD50 Oral	Rat	17100 mg/kg	-
derivs.				
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rat Rat	>2000 mg/kg >2000 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
s-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.

Eyes	
Respiratory	: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
S-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	<u>ity (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

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SECTION 11: Toxicological information

SECTION 11: Toxicological information			
Product/ingredient name	Category	Route of exposure	Target organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

Aspiration hazard

Product/i	ingredient name	Result
xylene		ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effec	<u>ts</u>	
Inhalation	: No known significant effects or cri	tical hazards.
Ingestion	: No known significant effects or cri	tical hazards.
Skin contact	: Causes skin irritation. Defatting to	o the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the ph	ysical, chemical and toxicological o	characteristics
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include the irritation redness dryness cracking	ne following:
Eye contact	: Adverse symptoms may include the pain or irritation watering redness	ne following:
Delayed and immediate effe	ects as well as chronic effects from	short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>ects</u>	
Not available.		
Conclusion/Summary	: Not available.	
General		n defat the skin and lead to irritation, cracking and/or /ere allergic reaction may occur when subsequently
Carcinogenicity	: No known significant effects or cri	tical hazards.
Mutagenicity	: No known significant effects or cri	
Reproductive toxicity	: No known significant effects or cri	tical hazards.
Other information	: Not available.	

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SECTION 11: Toxicological 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 vapour/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.

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11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh	Daphnia - <i>daphnia</i>	48 hours
	water	magna	
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and	_	Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia</i>	48 hours
	C C	magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
	5	mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
	g,-	Pseudokirchneriella	
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia	21 days
		magna (Water flea)	

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
 P2-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine 	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-
Conclusion/Summary	: There are no data	a available on the mixture itself.		

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Interpretation of the second state of the	-	-	Not readily Readily

12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated 2-methylpropan-1-ol	3.627	-	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	-	Low Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
bis-[4-(2,3-epoxipropoxi) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
xylene	No	N/A	No	No	No	N/A	No
Époxy Resin (700 <mw <=1100)</mw 	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
2-methylpropan-1-ol	No	N/A	N/A	No	λ/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product				
Methods of disposal	: The generation of waste should be avoided or minimised 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.			
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.			
European waste catalogue (EWC)				
Waste code	Waste designation			
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances			

English (GB)

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SECTION 13: Disposal considerations

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when Empty conta residues ma Do not cut, v	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. hiners or liners may retain some product residues. Vapour from product by create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, newers.	

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	111	111	Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.			
Tunnel code	: (D/E)		
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.		
ΙΑΤΑ	: None identified.		
14.6 Special pred user	autions for : 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.		
14.7 Transport ir according to IMC instruments			

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
₩PvB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market

and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	CLP = C 1272/200 DNEL = EUH sta PNEC =	cute Toxicity Estimate classification, Labelling and Packaging Regulation [Regulation (EC) No. 08] Derived No Effect Level tement = CLP-specific Hazard statement Predicted No Effect Concentration REACH Registration Number
Full text of abbreviated H statements	: H226 H304 H312 H315 H317 H318 H319 H332 H335 H336 H373 H411 H412 H413	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
The life of the state of the sector of the s		

Full text of classifications [CLP/GHS]

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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SECTION 16: Other	r information			
	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
<u>History</u> Date of issue/ Date of	: 18 April 2024			
revision	• 10 April 2024			
Date of previous issue	: 24 July 2023			
Prepared by	: EHS			
Version	: 2			

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