SAFETY DATA SHEET

Date of issue/Date of revision

Version

: 1.02

South Africa

pPG

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

: 28 August 2024

1.1 Product identifier	
Product name	: SIGMALINE 523 HARDENER OXIDE YELLOW
Product code	: 000001098883
Other means of identificat	on
00351397; 00351398	
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	: Hardener.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier o	f the safety data sheet
PPG Protective and Marine (Coatings Pty Ltd
7 Arnold Street,	Coatings Pty Ltd
7 Arnold Street, Alrode, Alberton, Gauteng South Africa	Coatings Pty Ltd
7 Arnold Street, Alrode, Alberton, Gauteng	Coatings Pty Ltd
7 Arnold Street, Alrode, Alberton, Gauteng South Africa	Coatings Pty Ltd
7 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800 e-mail address of person	Coatings Pty Ltd : PS.ACEMEA@ppg.com
7 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800	
7 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800 e-mail address of person	: PS.ACEMEA@ppg.com

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>

Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317

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 Hazard pictograms :



: Danger

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SECTION 2: Hazards identification

Hazard statements	Causes severe skin burns and eye damage. May cause an allergic skin reaction.	
Precautionary statements		
Prevention	: Wear protective gloves, protective clothing and eye or face protection.	
Response	: IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.	
Storage	: Not applicable.	
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P304 + P310, P301 + P310, P303 + P361 + P353, P310, P501 	
Hazardous ingredients	: Epoxy Amine Resin m-phenylenebis(methylamine) Phenol, methylstyrenated Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	
Supplemental label elements	: Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
Special packaging requirem	<u>ents</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.	
Other hazards which do not result in classification	: None known.	

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Epoxy Amine Resin	CAS: SUB130425	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥10 - ≤22	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	ATE [Oral] = 930 mg/ kg ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
		English	(GB) South	n Africa	2/14

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 SECTION 3: Composition/information on ingredients

			EUH071		
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥5.0 - ≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5	≥1.0 - <3.0	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	ATE [Oral] = 891 mg/ kg	[1]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥1.0 - ≤3.2	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≤1.7	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	<1.0	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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.

[1] 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.

SECTION 4: First aid measures

4.1 Description of 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 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. 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.

English (GB)
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Conforms to Regulation (EC) 2020/878	No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 4: First aid	measures
4.2 Most important symptom	s and effects, both acute and delayed
Potential acute health effect	<u>ts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	toms
Eye contact	: Adverse symptoms may include the following: pain
	vatering redness
Inhalation	: No specific data.
Skin contact	Adverse symptoms may include the following:
	pain or irritation redness
	blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedi	ate 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: Firefight	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides 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.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathir apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to Europea standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1 Personal precautions, pr	ote	ctive 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 spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	; :	If specialised 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".
6.2 Environmental precautions	:	Avoid dispersal of spilt 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).
6.3 Methods and material for	r co	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. Approach the 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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 breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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SECTION 7: Handli	ng and storage			
7.2 Conditions for safe storage, including any incompatibilities	with local regulations cool and well-ventila food and drink. Stor for use. Containers to prevent leakage.	ollowing temperatures: 0 to 35°C (32 to 95 s. Store in original container protected fro ted area, away from incompatible materia re locked up. Keep container tightly close that have been opened must be carefully Do not store in unlabelled containers. Us tal contamination. See Section 10 for inco	m direct sunlight in a dry, ils (see Section 10) and d and sealed until ready resealed and kept upright e appropriate containment	

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
Talc , not containing asbestiform fibres m-phenylenebis(methylamine)		DOL OEL (South Africa, 3/2021). TWA: 4 mg/m ³ 8 hours. Form: Respirable fraction ACGIH TLV (United States, 7/2023). Absorbed through skin. C: 0.018 ppm
procedures Standard EN 688 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen		d be made to monitoring standards, such as the following: European Workplace atmospheres - Guidance for the assessment of exposure themical 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 European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical exposure to national guidance documents for methods for the determination postances will also be required.
8.2 Exposure controls		
Appropriate engineering : controls	local exhaust ver	s generate dust, fumes, gas, vapour or mist, use process enclosures, ntilation or other engineering controls to keep worker exposure to inants below any recommended or statutory limits.
Individual protection measures	<u>s</u>	
Hygiene measures :	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection : Skin protection	Chemical splash	goggles and face shield.
Hand protection :		

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	hemical-resistant, impervious gloves complying with an approved standard sho orn at all times when handling chemical products if a risk assessment indicates acessary. Considering the parameters specified by the glove manufacturer, che uring use that the gloves are still retaining their protective properties. It should l oted that the time to breakthrough for any glove material may be different for diff ove manufacturers. In the case of mixtures, consisting of several substances, rotection time of the gloves cannot be accurately estimated. When prolonged of equently repeated contact may occur, a glove with a protection class of 6 reakthrough time greater than 480 minutes according to EN 374) is recommen then only brief contact is expected, a glove with a protection class of 2 or highe reakthrough time greater than 30 minutes according to EN 374) is recommend the user must check that the final choice of type of glove selected for handling the oduct is the most appropriate and takes into account the particular conditions of a included in the user's risk assessment.	e this is eck be fferent the or ded. r led. his
Gloves	trile neoprene	
Body protection	ersonal protective equipment for the body should be selected based on the task erformed and the risks involved and should be approved by a specialist before andling this product.	< being
Other skin protection	opropriate footwear and any additional skin protection measures should be sele ased on the task being performed and the risks involved and should be approve becialist before handling this product.	
Respiratory protection	espirator selection must be based on known or anticipated exposure levels, the azards of the product and the safe working limits of the selected respirator. If w re exposed to concentrations above the exposure limit, they must use appropria ertified respirators. Use a properly fitted, air-purifying or air-fed respirator comp ith an approved standard if a risk assessment indicates this is necessary. Wea spirator conforming to EN140. Filter type: organic vapour (Type A) and particu- ter P3	vorkers ate, Ilying ar a
Environmental exposure controls	missions from ventilation or work process equipment should be checked to ens ey comply with the requirements of environmental protection legislation. In sor ases, fume scrubbers, filters or engineering modifications to the process equipn ill be necessary to reduce emissions to acceptable levels.	ne

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

Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).						
	2,4,6-tris(dimethylaminomethyl)phenol 382 719.6 EU A.15						
Auto-ignition temperature	: Ingredient name °C °F Method						
Flash point	: Closed cup: 96°C						
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)						
Flammability	: Not available.						
Initial boiling point and boiling range	: >37.78°C						
Melting point/freezing point	: May start to solidify at the following temperature: 14°C (57.2°F) This is based on data for the following ingredient: m-phenylenebis(methylamine). Weighted average 2.15°C (35.9°F)						
Odour threshold	: Not available.						
Odour	: Aromatic. [Slight]						
Colour	: Yellow.						
Physical state	: Liquid.						
<u>Appearance</u>							

English (GB)

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SECTION 9: Physica			perties					
pH		Not applicable.						
Viscosity	:	Kinematic (40°C): >2	21 mm²/s					
Viscosity	:	> 100 s (ISO 6mm)						
Solubility(ies)	:	. , ,						
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octa	anol/ :	Not applicable.						
Vapour pressure	:		Vapour Pressure at 20°C			Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2,4,6-tris (dimethylaminomethyl) phenol	0.056	0.0075	EU A.4			
					butyl acotato			·
Evaporation rate	:	0.007 (benzyl alcoho	I) compar	ed with t	outyl acetate			
•		0.007 (benzyl alcoho 1.44	I) compar	ed with t	bulyi acelale			
Relative density	:		<i>,</i> .					
Relative density Vapour density	:	1.44	: 3.7 (Air not explos	= 1) (be sive, but	enzyl alcohol).	of an exp	olosible m	nixture of
Relative density Vapour density Explosive properties	:	1.44 Highest known value The product itself is r	: 3.7 (Air not explos iir is possi	= 1) (be sive, but ble.	enzyl alcohol). the formation	of an exp	olosible m	nixture of
Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics	:	1.44 Highest known value The product itself is r vapour or dust with a	: 3.7 (Air not explos iir is possi	= 1) (be sive, but ble.	enzyl alcohol). the formation	of an exț	olosible m	nixture of

No additional information.

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 metal oxide/oxides					

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	LC50 Inhalation Dusts and mists	Rat	5.05 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
m-phenylenebis(methylamine)	Skin - Severe irritant	Rat	-	4 hours	4 hours

Conclusion/Summary

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

: There are no data available on the mixture itself.

Respiratory

Eyes

: There are no data available on the mixture itself.

Sensitisation

Product	/ingredient name	Route of exposure	Species	Result
m-phenylenebis(methylamine) Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine		skin skin	Mouse Guinea pig	Sensitising Sensitising
Conclusion/Summa	у			
Skin	: There are no data avail	lable on the mixtu	re itself.	
Respiratory	: There are no data avail	lable on the mixtu	re itself.	

Respiratory	۰.	
<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.
<u>Teratogenicity</u>		
Conclusion/Summary	÷	There are no data available on the mixture itself.
Information on likely routes of exposure	:	Not available.
Potential acute health effects	2	
Inhalation	:	No known significant effects or critical hazards.

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SECTION 11: Toxico	logical informatio	n			
Ingestion	: No known significant	effects or critical hazards.			
Skin contact	: Causes severe burns	. May cause an allergic skin reaction.			
Eye contact	: Causes serious eye d	amage.			
Symptoms related to the ph	ysical, chemical and tox	<u>kicological characteristics</u>			
Inhalation	: No specific data.				
Ingestion	: Adverse symptoms m stomach pains	ay include the following:			
Skin contact	: Adverse symptoms m pain or irritation redness blistering may occur	ay include the following:			
Eye contact	: Adverse symptoms m pain watering redness	ay include the following:			
Delayed and immediate effe	<u>cts as well as chronic e</u>	ffects from short and long-term expos	<u>sure</u>		
<u>Short term exposure</u>					
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 effe	ects				
Not available.					
Conclusion/Summary	: Not available.				
General		vere allergic reaction may occur when s	ubsequently exposed to		
Carcinogenicity	: No known significant	effects or critical hazards.			
Mutagenicity	: No known significant	effects or critical hazards.			
Reproductive toxicity	: No known significant	effects or critical hazards.			
Other information	: Not available.				

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. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - <i>Daphnia</i> <i>longispina</i> - Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,4,6-tris (dimethylaminomethyl)phenol	OECD 301D Ready	4 % - Not readily - 28 days	-	-
	Biodegradability - Closed Bottle Test			
Octadecanoic acid, 12-hydroxy-, reaction products with	301D Ready Biodegradability - Closed Bottle	22 % - 28 days	-	-
ethylenediamine	Test			

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	- -	- -	Readily Not readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
m-phenylenebis(methylamine)	0.18	2.69	Low
benzyl alcohol	0.87	-	Low
salicylic acid	2.21 to 2.26	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
Phenol, methylstyrenated	3.627	-	Low
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>5.86	-	High

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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SECTION 12: Ecological information

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Epoxy Amine Resin	No	N/A	N/A	No	N/A	N/A	N/A
m-phenylenebis(methylamine)	No	N/A	No	No	No	N/A	No
benzyl alcohol	No	N/A	N/A	No	N/A	N/A	N/A
2,4,6-tris	No	N/A	N/A	No	N/A	N/A	N/A
(dimethylaminomethyl)phenol							
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	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

<u>Product</u>	
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 waste paint and varnish containing organic solvents or other hazardous substances		
08 01 11*			
ackaging			
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	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 or Empty containers or liners may retain some product residues. Avoid dispersal or material and runoff and contact with soil, waterways, drains and sewers.		

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SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	Ш	II	II
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (E)
IMDG	: None identified.
ΙΑΤΑ	: None identified.

user

14.6 Special precautions 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 in bulk	: Not applicable.
according to IMO	
instruments	

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

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
vPvB	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.

: Not applicable. **Explosive precursors**

Ozone depleting substances (1005/2009/EU)

English (GB)

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SECTION 15: Regulatory information

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 is	ssued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Esti CLP = Classification, Lab 1272/2008] DNEL = Derived No Effec EUH statement = CLP-sp PNEC = Predicted No Eff RRN = REACH Registrati	elling and Packaging Regulation [Regulation (EC) No. It Level ecific Hazard statement ect Concentration
Full text of abbreviated H statements	H315 Causes skin irri H317 May cause an a H318 Causes serious H319 Causes serious H332 Harmful if inhale H361d Suspected of da	act with skin. skin burns and eye damage. tation. Illergic skin reaction. eye damage. eye irritation. ed. amaging the unborn child. atic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B
<u>History</u>		
Date of issue/ Date of revision	: 28 August 2024	
Date of previous issue	: 27 August 2024	
Prepared by	: EHS	
Version	: 1.02	
Disclaimer		

Disclaimer

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