# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 18 April 2024

Version

: 1.01

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

1.1 Product identifier	
Product name	: SIGMACOVER 435 BASE ALUMINIUM
Product code	: 000001190924
Other means of identificati 00453496; 00453707	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	the safety data sheet
Sigma Coatings PTY 9 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800	
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 STOT RE 2, H373 Aquatic Chronic 2, H411

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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SIGMACOVER 435 BASE ALL	MINIUM			
SECTION 2: Hazards identification				
Hazard pictograms				
Signal word	: Warning			
Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>			
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 release the environment. Do not breathe vapour.			
Response	: Collect spillage.			
Storage	: Not applicable.			
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P260, P391, P501</li> </ul>			
Hazardous ingredients	<ul> <li>proxy resin (MW ≤ 700)</li> <li>naphtha (petroleum), hydrodesulphurized heavy Note P</li> <li>Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine</li> </ul>			
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 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 does not contain any substances that are assessed to be a PBT or a vPv			
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.			

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# **SECTION 3: Composition/information on ingredients**

3.2	6.4		-
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: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<mark>ø</mark> poxy resin (MW  ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥25 - ≤50	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	≥10 - ≤17	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]
naphtha (petroleum), hydrodesulphurized heavy Note P	EC: 265-185-4 CAS: 64742-82-1 Index: 649-330-00-2	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥0.30 - ≤2.6	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	≤0.30	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.

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## **SECTION 3: Composition/information on ingredients**

<u>Type</u>

🕅 Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains  $\geq$  1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

#### SUB codes represent substances without registered CAS Numbers.

## **SECTION 4: First aid measures**

4.1 Description of first aid n	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.

## 4.2 Most important symptoms and effects, both acute and delayed

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Potential acute health e	f <u>fects</u>
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.
<u>Over-exposure signs/sy</u>	<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	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Spacific treatments	No specific treatment

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 SECTION 5: Eirofighting measures

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
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 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 combustion products	: Decomposition products may include the following materials: carbon 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	tective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	containment and cleaning up
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.

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## **SECTION 6: Accidental release measures**

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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 spilt product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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. 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.

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## **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
<b>x</b> ylene	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 minutes.
Aluminium powder (stabilized)	DOL OEL (South Africa, 3/2021). [aluminium metal and insoluble
	compounds as Al]
	TWA: 2 mg/m <sup>3</sup> , (as Al) 8 hours. Form: Respirable fraction
Talc , not containing asbestiform fibres	DOL OEL (South Africa, 3/2021).
	TWA: 4 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
2-methylpropan-1-ol	DOL OEL (South Africa, 3/2021).
	TWA: 100 ppm 8 hours.
1-methoxy-2-propanol	DOL OEL (South Africa, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
ethylbenzene	DOL OEL (South Africa, 3/2021). Absorbed through skin.
	TWA: 40 ppm 8 hours.
titanium dioxide	DOL OEL (South Africa, 3/2021).
	TWA: 10 mg/m <sup>3</sup> 8 hours.

#### **Biological exposure indices**

Product/ingredient name		Exposure indices			
₩ylene		<b>DOL BEI (South Africa, 3/2021) [xylenes]</b> BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time end of shift.			
ethylbenzene		<b>DOL BEI (South Africa, 3/2021)</b> BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.			
procedures	Standard EN 689 by inhalation to cl 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 hemical agents for comparison with limit values and measurement an Standard EN 14042 (Workplace atmospheres - Guide for the se 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 ce to national guidance documents for methods for the determination pstances will also be required.			
controls of	other engineering recommended or	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof nent.			
Individual protection measures					

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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.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	: 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.
SECTION OF Devoice	Land chamical properties

## **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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Brown.
Odour	: Aromatic. [Slight]
Odour threshold	: Not available.
Melting point/freezing point	<ul> <li>May start to solidify at the following temperature: &lt;-60°C (&lt;-76°F) This is based on data for the following ingredient: Naphtha (petroleum), hydrodesulfurized heavy. Weighted average: -90.55°C (-131°F)</li> </ul>

English (GB)
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SECTION 9: Physical a	nd	chemical prop	perties						
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	:	Greatest known rang	ge: Lower:	1.48%	Upper: 13.74	% (1-me	thoxy-2-pi	ropanol)	
Flash point	:	Closed cup: 32°C							
Auto-ignition temperature	:	Ingredient name		°C	°F		Method		
		1-methoxy-2-propanol		270	518				
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).							
рН		Not applicable. insoluble in water.							
Viscosity	:	Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s							
Viscosity	:	60 - 100 s (ISO 6mn	ר)						
Solubility(ies)	:								
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octano water	I/ :	Not applicable.							
Vapour pressure	:		Vapour Pressure at 20°C			Vap	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		24 methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Evaporation rate	:	<ul> <li>Highest known value: 0.84 (ethylbenzene) Weighted average: 0.77compared with butyl acetate</li> </ul>							
Relative density	:	1.47							
Vapour density	1.1	Highest known value	• 37 (Air	= 1) (x	vlene) Weid	nted aver	ade: 3 52	$(\Delta ir = 1)$	

- : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.52 (Air = 1)
- : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
- : Product does not present an oxidizing hazard.

Particle characteristics Median particle size

: Not applicable.

## 9.2 Other information

**Explosive properties** 

**Oxidising properties** 

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.			

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SECTION 10: Stab	lity and reactivi	ty	
10.5 Incompatible materia		the following materials to prevent strong exot , strong alkalis, strong acids.	hermic reactions:
10.6 Hazardous	: Depending on c	onditions, decomposition products may include	e the following materia

decomposition products carbon 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
<mark>e</mark> poxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
•	LD50 Oral	Rat	4.3 g/kg	-
Naphtha (petroleum), hydrodesulfurized	LD50 Oral	Rat	>5000 mg/kg	-
heavy				
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Octadecanoic acid, 12-hydroxy-, reaction	LC50 Inhalation Dusts and	Rat	5.05 mg/l	4 hours
products with ethylenediamine	mists			
	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
epoxy resin (MW ≤ 700)	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

#### Conclusion/Summary

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

## Respiratory

Skin

Eyes

: There are no data available on the mixture itself.

## Sensitisation

Product/ingr	redient name	Route of exposure	Species	Result
Poxy resin (MW ≤ 700) Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine		skin skin	Mouse Guinea pig	Sensitising Sensitising
Conclusion/Summary				
Skin	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
Mutagenicity				
Conclusion/Summary	: There are no data avail	lable on the mixture	e itself.	
<b>Carcinogenicity</b>				

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SECTION 11: Toxic	ological information				
Conclusion/Summary	: There are no data availabl	le on the mix	cture	itself.	
Reproductive toxicity	. There are no data availabl	la an tha mix	duro	itaalf	
Conclusion/Summary Teratogenicity	: There are no data availabl		lure	ilsen.	
Conclusion/Summary	: There are no data availabl	le on the mix	dure	itself	
Specific target organ toxi					
Product/ir	igredient name	Categor	v	Route of	Target organs
	•		·	exposure	
<b>x</b> ylene		Category		1	Respiratory tract irritation
	odesulphurized heavy Note P	Category			Narcotic effects
2-methylpropan-1-ol		Category 3 Category 3			Respiratory tract irritation
1-methoxy-2-propanol		Category			Narcotic effects
Specific target organ toxi	<u>city (repeated exposure)</u>	·			
Product/ir	igredient name	Categor	ſУ	Route of	Target organs
				exposure	
p⁄aphtha (petroleum), hydro	odesulphurized heavy Note P	Category	1 -		central nervous system (CNS)
ethylbenzene		Category	2 -		hearing organs
Aspiration hazard					
Produc	t/ingredient name				Result
<b>x</b> ylene	•	A	SPIR	ATION HAZARD	- Category 1
naphtha (petroleum), hydro ethylbenzene	odesulphurized heavy Note P	A	SPIR	ATION HAZARD ATION HAZARD	- Category 1
Information on likely	: Not available.				
routes of exposure					
Potential acute health effe	: No known significant effec	te or critical	hozo	orde	
Ingestion	: No known significant effect				
Skin contact	: Causes skin irritation. Def				allergic skin reaction
Eye contact	: Causes serious eye irritati	•	5011	. May cause and	allergic skill reaction.
	physical, chemical and toxicol		acte	ristics	
Inhalation	: No specific data.				
Ingestion	: No specific data.				
Skin contact	: Adverse symptoms may in	nclude the fo	llowi	ng:	
	irritation				
	redness dryness				
	cracking				
Eye contact	: Adverse symptoms may ir pain or irritation watering	nclude the fo	llowi	ng:	
Delayed and immediate e	redness ffects as well as chronic effect	s from sho	rt an	d lona-term exp	osure
Short term exposure					
Potential immediate	: Not available.				
effects					

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## **SECTION 11: Toxicological information**

		-
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
<b>Conclusion/Summary</b>	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. 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	:	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.
Dualan washing was a start a sufer	4	and the state and source instation. One discussed using the destance of the hermaful if in boll of

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.

## 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
poxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
Octadecanoic acid, 12-hydroxy-, reaction products	Acute EC50 >100 mg/l	Algae -	72 hours
with ethylenediamine		Pseudokirchneriella	
		subcapitata	
	Acute EC50 >10 mg/l	Daphnia - Daphnia	48 hours
		magna	
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

**Conclusion/Summary** 

: There are no data available on the mixture itself.

## 12.2 Persistence and degradability

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## **SECTION 12: Ecological information**

Product/ingredient name	Test	Result	Dose	Inoculum	
Poxy resin (MW ≤ 700) ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	OECD 301F - 301D Ready Biodegradability - Closed Bottle Test	5 % - 28 days 79 % - Readily - 10 days 22 % - 28 days	- - -	- - -	

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<mark>e</mark> poxy resin (MW ≤ 700)	-	-	Not readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	-	Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	3	31	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
1-methoxy-2-propanol	<1	-	Low
ethylbenzene	3.6	79.43	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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **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**

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ECTION 13: Dispo	osal considera	ations
Methods of disposal	of this product requirements regional local via a licensed	on of waste should be avoided or minimised wherever possible. Dispose t, solutions and any by-products should at all times comply with the of environmental protection and waste disposal legislation and any authority requirements. Dispose of surplus and non-recyclable product waste disposal contractor. Waste should not be disposed of untreate ess fully compliant with the requirements of all authorities with jurisdict
Hazardous waste	: Yes.	
European waste catalog	<u>ue (EWC)</u>	
Waste code		Waste designation
08 01 11*	waste paint and va	arnish containing organic solvents or other hazardous substances
Packaging		
Methods of disposal		on of waste should be avoided or minimised wherever possible. Waste ould be recycled. Incineration or landfill should only be considered whe ot feasible.
Type of packaging		European waste catalogue (EWC)
Container	15 01 06	mixed packaging
Special precautions	taken when ha Empty contain residues may Do not cut, we	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. hers or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container eld or grind used containers unless they have been cleaned thoroughly oid dispersal of spilt material and runoff and contact with soil, waterway wers.

	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	III		
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Æpoxy resin (MW  ≤ 700))	Not applicable.

**Additional information ADR/RID** : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2. **Tunnel code** : (D/E) IMDG : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5. ΙΑΤΑ : The environmentally hazardous substance mark may appear if required by other transportation regulations. English (GB) South Africa 14/16

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SECTION 14: Transport	information
user	<b>Transport within user's premises:</b> 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 : according to IMO instruments	Not applicable.
SECTION 15: Regulator	y information
15.1 Safety, health and environm	nental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/20	<u>106 (REACH)</u>
Annex XIV - List of substance	s subject to authorisation
Annex XIV	
None of the components are lis	ted.
Substances of very high cone	<u>ern</u>
None of the components are lis	ted.
Annex XVII - Restrictions :	Not applicable.
on the manufacture.	

14.6 Special precautions for user	:	<b>Transport within user's premises:</b> 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

15.1 Safety, health and env	ironmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 19	<u>907/2006 (REACH)</u>
Annex XIV - List of subst	tances subject to authorisation
Annex XIV	
None of the components a	are listed.
Substances of very high	<u>1 concern</u>
None of the components a	are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Other national and interna	ational regulations.
Explosive precursors	<ul> <li>This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.</li> </ul>
Ozone depleting substan Not listed.	<u>ces (1005/2009/EU)</u>
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates information that has	Indicates information that has changed from previously issued version.						
Abbreviations and : acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number						
Full text of abbreviated H : statements	<ul> <li>▶225</li> <li>H226</li> <li>H304</li> <li>H312</li> <li>H315</li> <li>H317</li> <li>H318</li> <li>H319</li> <li>H332</li> <li>H335</li> <li>H336</li> </ul>	Highly flammable liquid and vapour. Flammable liquid and vapour. May be fatal if swallowed and enters a Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.	airways.				
		English (GB)	South Africa	15/16			

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SECTION 16: Other	information	
	H373 May cause da H411 Toxic to aqua H412 Harmful to aq	nge to organs through prolonged or repeated exposure. Image to organs through prolonged or repeated exposure. tic life with long lasting effects. uatic life with long lasting effects. posure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT RE 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 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
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