SAFETY DATA SHEET

Date of issue/Date of revision

: 8 March 2024

Version

: 1.01





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

1.1 Product identifier				
Product name	: SIGMACOVER 256/435/456/522 HARDENER			
Product code	: 000001197842			
Other means of identificatio	n			
00140801; 00141100; 001726	26; 00190303; 00191381; 00202322; 00299656			
1.2 Relevant identified uses of	f 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				
PPG Cameroun				
BP 1028, Douala Cameroon				
Tel: 00237 33 37 83 47				
Fax: 00237 33 37 88 98				
e-mail address of person	: PS.ACEMEA@ppg.com			
responsible for this SDS				
1.4 Emergency telephone	: ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00237 33 37 83 47			
number				

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H317 STOT SE 3, H336 STOT SE 3, H336 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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SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. 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.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P305 + P351 + P338, P310, P403 + P233, P501
Hazardous ingredients	: 2-methylpropan-1-ol Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 3,6-diazaoctanethylenediamin
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 does not contain any substances that are assessed to be a PBT or a vPv $\$
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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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
✓-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥25 - ≤50	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	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]
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	CAS: 68410-23-1	≥10 - <25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
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]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥1.0 - ≤3.5	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]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≤1.4	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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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.			

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effe	ects
Eye contact	: Causes serious eye damage.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immed	liate 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.

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 SECTION 5: Firefighting measures

•	•
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 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
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, protective equipment and emergency procedures

	······································
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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). Water polluting material. May be harmful to the environment if released in large quantities.
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 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	 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. 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. Store locked up. 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/ingredie	ent	name		Exposure limit values	
2-methylpropan-1-ol			ACGIH TLV (United TWA: 152 mg/m ³ 8 TWA: 50 ppm 8 hou	nours.	
xylene				2022). [xylene, mixed isomers p kin.	oure]
ethylbenzene			STEL: 100 ppm 15 r TWA: 221 mg/m ³ 8 TWA: 50 ppm 8 hou	ninutes. nours. rs. 2 022). Absorbed through skin. 5 minutes. ninutes. nours.	
3,6-diazaoctanethylenediam	in		IPEL (-). Absorbed to TWA: 1 ppm		
Recommended monitoring procedures	:	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	 (Workplace atmosphe hemical agents for con ean Standard EN 1404; use of procedures for th European Standard the performance of pro- 	g standards, such as the followir eres - Guidance for the assessm nparison with limit values and me 2 (Workplace atmospheres - Gui e assessment of exposure to ch EN 482 (Workplace atmospheres ocedures for the measurement o e documents for methods for the quired.	ent of exposure easurement de for the emical and s - General f chemical
8.2 Exposure controls					
Appropriate engineering controls	:	other engineering recommended of	g controls to keep work r statutory limits. The e oncentrations below an	e process enclosures, local exha er exposure to airborne contami engineering controls also need to y lower explosive limits. Use exp	nants below any keep gas,
Individual protection measured	ures	i i			
Hygiene measures	:	eating, smoking a Appropriate tech Contaminated we contaminated clo	and using the lavatory niques should be used ork clothing should not	ghly after handling chemical proc and at the end of the working per to remove potentially contamina be allowed out of the workplace. Ensure that eyewash stations and cation.	riod. ted clothing. Wash
Eye/face protection <u>Skin protection</u>	1	Chemical splash	goggles and face shie	ld.	
Hand protection	:	worn at all times necessary. Cons during use that the noted that the tim glove manufacture	when handling chemic sidering the parameters ne gloves are still retair ne to breakthrough for rers. In the case of mi	complying with an approved stand al products if a risk assessment is specified by the glove manufac ing their protective properties. If any glove material may be different ktures, consisting of several substance accurately estimated. When pro	indicates this is turer, check t should be ent for different stances, the
			English (GB)	Cameroon	7/15

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		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 protec	ction :	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 p	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 p	protection :			
Environment controls	al exposure :	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 9: Physical and chemical properties

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

		English (GB)	Cameroon	8/15
Vapour pressure	- 1			
Partition coefficient: n-octanol water	/:	Not applicable.		
cold water		Not soluble		
Media		Result		
Solubility(ies)	1			
Viscosity	1	60 - 100 s (ISO 6mm)		
Viscosity	:	Kinematic (room temperature): >400 mm Kinematic (40°C): >21 mm ² /s	²/s	
рН	1	Not applicable.		
Decomposition temperature	1	Stable under recommended storage and	handling conditions (see Sect	ion 7).
Auto-ignition temperature	:	430°C (806°F)		
Flash point	:	Closed cup: 25°C		
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.7% Upp	per: 10.9% (2-methylpropan-1	-ol)
Flammability	:	Not available.		
Initial boiling point and boiling range	-	>37.78°C		
Melting point/freezing point		May start to solidify at the following temper data for the following ingredient: 3,6-diaza -84.56°C (-120.2°F)		
Odour threshold		Not available.		
Odour	:	Amine-like.		
Colour	1	Clear.		
Physical state	:	Liquid.		
Appearance				

9.1 Information on basic physical and chemical properties

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SECTION 9: Physical and chemical properties

		Vapour Pressure at 20°C		sure at 20°C	Vapour pressure at 5		sure at 50°C	
		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 butyl acetate	e: 0.84 (etł	nylbenz	ene) Weighteo	d average	e: 0.71co	mpared with
Relative density	:	0.95						
Vapour density	:	Highest known value average: 3.17 (Air =	· ·	r = 1)((3,6-diazaoctar	ethylene	diamin).	Weighted
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
Particle characteristics								
Median particle size	_	Not applicable.						

9.2 Other information

No additional information.

SECTION 10: Stabilit	y 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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
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	LD50 Oral	-		Rat		1200 mg	ı/kg	-
3,6-diazaoctanethylenediamin	LD50 Derm	nal		Rab	bit	1465 mg	ı/kg	-
	LD50 Oral			Rat		1716 mg	J/kg	-
Conclusion/Summary : There are	e no data avail	lable on the	mixture	e itsel	F.			
rritation/Corrosion								
Product/ingredient name	Res	sult	Spee	cies	Score	Ехр	osure	Observation
xylene	Skin - Mode	rate irritant	Rabbi	t	-	24 hours	500 mg	-
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible	e necrosis	Rabbi	t	-	4 hours	_	7 days
Conclusion/Summary								
Skin : There are	no data availa	able on the i	nixture	itself				
Eyes : There are	no data availa	able on the i	nixture	itself				
Respiratory : There are	no data availa	able on the i	nixture	itself				
<u>Sensitisation</u>								
Product/ingredient name		Route	of		Spec	ies		Result
-		expos	ure					
Fatty acids, C18-unsatd., dimers, reaction	products	skin		Μοι	ise		Sensitisi	ng
with polyethylenepolyamines 3,6-diazaoctanethylenediamin		skin		Guir	nea pig		Sensitisi	ng
Conclusion/Summary								
Skin : There are	e no data avail	lable on the	mixture	e itsel	f.			
Respiratory : There are	e no data avail	lable on the	mixture	e itsel	f.			
<u>Mutagenicity</u>								
Conclusion/Summary : There are	e no data avail	lable on the	mixture	e itsel	f.			
<u>Carcinogenicity</u>								
Conclusion/Summary : There are	e no data avail	lable on the	mixture	e itsel	f.			
Reproductive toxicity								
Conclusion/Summary : There are	e no data avail	lable on the	mixture	e itsel	f.			
<u>Feratogenicity</u>								
Conclusion/Summary : There are	e no data avail	lable on the	mixture	e itsel	f.			
<u>Specific target organ toxicity (single exp</u>	<u>oosure)</u>							
Product/ingredient name)	Cate	gory	F	oute of		Target	organs
-				е	xposure	•		
2-methylpropan-1-ol		Categ	ory 3	-				ract irritation
		Categ					cotic effe	
xylene		Categ	ory 3	-		Res	spiratory t	ract irritation
Specific target organ toxicity (repeated (<u>exposure)</u>							
Product/ingredient name	•	Cate	gory		Route of exposur		Target	organs
					, posur	-		

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely : Not available. routes of exposure

Potential acute health effects

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SECTION 11: Toxico	logical information
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Ingestion	: Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the ph	nysical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	ects as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effective of the second se	ects
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o 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.

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. 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

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SECTION 11: Toxicological information

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
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	EC50 4.11 mg/l Fresh water	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines ethylbenzene	-	15 % - 28 days 79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines ethylbenzene	- -	-	Readily Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-methylpropan-1-ol	1	-	Low
xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: 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

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SECTION 12: Ecological information

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			
C	Packaging				

<u>Packaging</u>

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 ł Empty conta residues may Do not cut, w	I 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. iners or liners may retain some product residues. Vapour from product y 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, ewers.	

SECTION 14: Transport information

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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001197842 Date of issue/Date of revision : 8 March 2024 SIGMACOVER 256/435/456/522 HARDENER SECTION 14: Transport information **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 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
None of the components are listed.
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	: ATE = Acute Toxicity Estimate
acronyms	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
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SECTION 16: Other	information		
Full text of abbreviated H statements	H312Harmful in contact wH314Causes severe skinH315Causes skin irritatioH317May cause an allergH318Causes serious eyeH319Causes serious eyeH322Harmful if inhaled.H335May cause respirateH336May cause drowsingH373May cause damageH411Toxic to aquatic lifeH412Harmful to aquatic life	nd vapour. d. lowed and enters airways. with skin. b burns and eye damage. on. gic skin reaction. e damage. e irritation.	repeated exposure.
Full text of classifications [CLP/GHS]	Aquatic Chronic 2LCAquatic Chronic 3LCAsp. Tox. 1ASEye Dam. 1SIEye Irrit. 2SIFlam. Liq. 2FLFlam. Liq. 3FLSkin Corr. 1BSISkin Corr. 1CSISkin Sens. 1SISkin Sens. 1ASISTOT RE 2SISTOT SE 3SI	CUTE TOXICITY - Category 4 ONG-TERM (CHRONIC) AQUAT ONG-TERM (CHRONIC) AQUAT SPIRATION HAZARD - Category ERIOUS EYE DAMAGE/EYE IRF ERIOUS EYE DAMAGE/EYE IRF LAMMABLE LIQUIDS - Category LAMMABLE LIQUIDS - Category KIN CORROSION/IRRITATION - KIN CORROSION/IRRITATION - KIN CORROSION/IRRITATION - KIN SENSITISATION - Category PECIFIC TARGET ORGAN TOX XPOSURE - Category 3	TIC HAZARD - Category 1 RITATION - Category 1 RITATION - Category 2 2 3 • Category 1B • Category 1C • Category 2 1 1A ICITY - REPEATED
<u>History</u> Date of issue/ Date of	: 8 March 2024		
revision			
Date of previous issue	: 9 December 2023		
Prepared by	: EHS		
Version	: 1.01		

Disclaimer

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