SAFETY DATA SHEET

United Arab Emirates

: 2.02

Date of issue/Date of revision

: 20 December 2023 Version

SECTION 1: Identifi undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMACOVER 456 BASE BS 00A05
Product code	: 00141369
Other means of identifica Not available.	tion
1.2 Relevant identified use	s 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	of the safety data sheet
Sigma Paint Saudi Arabia L PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	td.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

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 Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 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	: Warning			
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. 			
Precautionary statements				
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.			
Response	: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.			
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, P273, P304 + P312, P403 + P233, P501 			
Hazardous ingredients	 xylene epoxy resin (MW ≤ 700) 2-methylpropan-1-ol 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 			
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.			
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>nts</u>			
Containers to be fitted with child-resistant fastenings	Not applicable.			
Tactile warning of danger	Not applicable.			
2.3 Other hazards				
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvE			
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 Mixtures : Mixture Specific Conc. % **Product/ingredient name Classification Identifiers** Type Limits, M-factors and ATEs ≥10 - ≤25 xylene EC: 215-535-7 Flam. Liq. 3, H226 ATE [Dermal] = 1700 [1] [2] mg/kg CAS: 1330-20-7 Acute Tox. 4, H312 Acute Tox. 4, H332 ATE [Inhalation Skin Irrit. 2, H315 (vapours)] = 11 mg/l Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Skin Irrit. 2, H315: C ≥ epoxy resin (MW \leq 700) ≥5.0 - ≤10 Skin Irrit. 2, H315 REACH #: [1] 01-2119456619-26 Eye Irrit. 2, H319 5% Skin Sens. 1, H317 EC: 500-033-5 Eye Irrit. 2, H319: C ≥ CAS: 25068-38-6 Aquatic Chronic 2, H411 5% REACH #: ≥1.0 - ≤5.0 Flam. Liq. 2, H225 ATE [Inhalation ethylbenzene [1] [2] Acute Tox. 4, H332 (vapours)] = 17.8 mg/l 01-2119489370-35 **STOT RE 2. H373** EC: 202-849-4 CAS: 100-41-4 (hearing organs) Index: 601-023-00-4 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 2-methylpropan-1-ol REACH #: ≥1.0 - <3.0 Flam, Lig. 3, H226 [1] [2] 01-2119484609-23 Skin Irrit. 2. H315 EC: 201-148-0 Eve Dam. 1, H318 CAS: 78-83-1 STOT SE 3, H335 Index: 603-108-00-1 STOT SE 3, H336 1,3-bis[12-hydroxy-REACH #: <1.0 Skin Sens. 1, H317 [1] [2] octadecamide-N-01-2119962189-26 Aquatic Chronic 4, H413 methylene]-benzene CAS: 911674-82-3 Index: 616-198-00-2 ≤0.30 Octadecanoic acid, REACH #: Skin Sens. 1B, H317 [1] 12-hydroxy-, reaction 01-2119979085-27 Aquatic Chronic 3, H412 products with EC: 309-629-8 ethylenediamine CAS: 100545-48-0 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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] 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.

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SECTION 3: Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid m	neasures		
Eye contact	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.		
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.		
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.		
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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 e	<u>iffects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sy</u>	<u>/mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any imn	nediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No operific treatment

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 fi	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 sulfur oxides halogenated compounds metal oxide/oxides		
5.3 Advice for firefighters			
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	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.
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	 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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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/ingredient name	Exposure limit values		
₩	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). [xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours. 		
titanium dioxide	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 10 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles 		
barium sulfate	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 10 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). Notes: The value is for total dust containing no asbestos and < 1% crystalline silica. TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction 		
Talc , not containing asbestiform fibres	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 2 mg/m³ 8 hours. Form: measured as respirable fraction of the aerosol Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 2 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2 mg/m³ 8 hours. Form: Respirable 		
ethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 543 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m ³ 8 hours.		
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2-methylpropan-1-ol		Protection of Air STEL: 125 ppm 1 TWA: 434 mg/m ³ STEL: 543 mg/m TWA: 100 ppm 8 ACGIH TLV (Unite Substances for w Indices 2002 Ado TWA: 20 ppm 8 f Abu Dhabi - OSH values (United Ar TWA: 152 mg/m ³ TWA: 50 ppm 8 f Cabinet Decree (7 Protection of Air TWA: 152 mg/m ³ TWA: 50 ppm 8 f	 8 hours. 15 minutes. hours. 4 States, 1/2023). Ototo which there is a Biologica ption. AD - Occupational air quarters. AD - Occupational air quarters.	oxicant. Notes: al Exposure Index or uality threshold limit egulation Concerning
Recommended monitoring procedures	Standard EN 689 by inhalation to o strategy) Europe application and u biological agents requirements for agents) Referer	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure controls				
Appropriate engineering controls	other engineerin recommended o	g controls to keep w r statutory limits. Th oncentrations below		e contaminants below any so need to keep gas,
Individual protection measured	<u>ires</u>			
Hygiene measures	eating, smoking Appropriate tech Contaminated w contaminated clo	and using the lavato iniques should be us ork clothing should i	roughly after handling che bry and at the end of the w sed to remove potentially o not be allowed out of the w g. Ensure that eyewash s location.	vorking period. contaminated clothing. vorkplace. Wash
Eye/face protection Skin protection	: Chemical splash	i goggles.		
Hand protection	worn at all times necessary. Con during use that the noted that the tim glove manufactu protection time of frequently repea (breakthrough tin When only brief (breakthrough tin	when handling cher sidering the parame he gloves are still re ne to breakthrough f irers. In the case of of the gloves cannot ted contact may occ me greater than 480 contact is expected, me greater than 30 r	es complying with an appr nical products if a risk ass ters specified by the glove taining their protective pro- for any glove material may mixtures, consisting of se be accurately estimated. ur, a glove with a protection minutes according to EN a glove with a protection ninutes according to EN a glove of glove sele	sessment indicates this is e manufacturer, check operties. It should be y be different for different everal substances, the When prolonged or on class of 6 374) is recommended. class of 2 or higher 874) is recommended.
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		product is the most appropriate and takes into account the par as included in the user's risk assessment.	ticular conditions of use,	
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 antistatic 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	I	Appropriate footwear and any additional skin protection measu based on the task being performed and the risks involved and specialist before handling this product.		
Respiratory protection	i :			
Environmental exposu controls	ire :	Emissions from ventilation or work process equipment should they comply with the requirements of environmental protection cases, fume scrubbers, filters or engineering modifications to t will be necessary to reduce emissions to acceptable levels.	legislation. In some	

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance							
Physical state	:	Liquid.					
Colour	:	Various					
Odour	:	Aromatic.					
Odour threshold	:	Not available.					
Melting point/freezing point	:		lay start to solidify at the following temperature: -94.9°C (-138.8°F) This is based n data for the following ingredient: ethylbenzene. Weighted average: -95.12°C 139.2°F)				
Initial boiling point and boiling range	:	>37.78°C					
Flammability	:	Not available.					
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)					
Flash point	1	Closed cup: 25°C					
Auto-ignition temperature		Ingredient name	°C	°F	Method		
· · · ·		ingreatent name	•		mounou		
		2-methylpropan-1-ol	415	779			
	:		415	779			
Decomposition temperature pH	:	2-methylpropan-1-ol	415 corage and	779			
Decomposition temperature	: :	2-methylpropan-1-ol Stable under recommended s	415 corage and ter.	779 handling cond			
Decomposition temperature pH		2-methylpropan-1-ol Stable under recommended s Not applicable. insoluble in wa Kinematic (room temperature)	415 corage and ter.	779 handling cond			
Decomposition temperature pH Viscosity	: :	2-methylpropan-1-ol Stable under recommended s Not applicable. insoluble in wa Kinematic (room temperature)	415 corage and ter.	779 handling cond			
Decomposition temperature pH Viscosity Solubility(ies)	:	2-methylpropan-1-ol Stable under recommended s Not applicable. insoluble in wa Kinematic (room temperature Kinematic (40°C): >21 mm²/s	415 corage and ter.	779 handling cond			
Decomposition temperature pH Viscosity Solubility(ies) Media	:	2-methylpropan-1-ol Stable under recommended s Not applicable. insoluble in wa Kinematic (room temperature) Kinematic (40°C): >21 mm²/s Result Not soluble	415 corage and ter.	779 handling cond			

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SECTION 9: Physical and chemical properties

		Ingredient name	Vapour Pressure at 20°C		Vapour pressure at 50		sure at 50°C	
			mm Hg	kPa	Method	mm Hg	kPa	Method
		<pre>properties and the second second</pre>	<12.00102	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (etł	nylbenze	ene) Weighteo	l average	: 0.77co	mpared with
Relative density	:	1.39						
Vapour density	:	Highest known value	: 3.7 (Air	= 1) (x	ylene). Weigh	ted avera	ge: 3.65	(Air = 1)
Explosive properties	:	The product itself is vapour or dust with a			the formation	of an exp	olosible m	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
Oxidiality properties								
Particle characteristics								

9.2 Other information

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 sulfur oxides halogenated compounds metal oxide/oxides				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>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	-
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	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
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SECTION 11: Toxicological in	formation							
12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	mists LC50 Inhalation Dusts mists LD50 Oral	and Ra Ra		5.05 mg/l >2000 mg/kg	4 hours -			
Conclusion/Summary : There are Irritation/Corrosion	e no data available on the	mixture its	elf.					
Product/ingredient name	Result	Species	Score	Exposure	Observation			
<mark>xy</mark> lene epoxy resin (MW ≤ 700)	Skin - Moderate irritant Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit Rabbit		24 hours 500 mg - -	- -			

Conclusion/Summary

: There are no data available on the mixture itself.

Skin Eyes

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

Respiratory **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
epoxy 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.
<u>Mutagenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxicit	y (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

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

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SECTION 11: Toxico	ological information
Information on likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
Inhalation	: May cause respiratory irritation.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate ef	fects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effect	s : Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effect	s : Not available.
Potential chronic health ef	ifects
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	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 - <i>Daphnia</i> <i>magna</i>	48 hours
	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

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	- - -	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ylene epoxy resin (MW ≤ 700) ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	- - - -	- - -	Readily Not readily Readily Inherent

12.3 Bioaccumulative potential

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

SECTION 12: Ecological information

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

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	· Yes

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	

Packaging

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

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

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	PAINT	PAINT	
14.3 Transport hazard class(es)	3	3	3	
14.4 Packing group	111	111		
		English (GB) United /	Arab Emirates 14/	′16

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SECTION 14: Transport information				
14.5 Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
2. Tunnel code : (E	his class 3 viscous liquid is 2.3.1.5.1. D/E)	s not subject to regulation in packs s not subject to regulation in packs	agings up to 450 L according to agings up to 450 L according to 2.3.2.5.	
user 14.7 Transport in bull according to IMO	upright and se event of an ac	cure. Ensure that persons transpo cident or spillage.	nsport in closed containers that are orting the product know what to do in the	
instruments SECTION 15: R	egulatory informa	ition		
EU Regulation (EC)	No. 1907/2006 (REACH) substances subject to a	ions/legislation specific for the <u>uthorisation</u>	substance or mixture	
Substances of ver	<u>y high concern</u>			
None of the compor Annex XVII - Restri on the manufacture placing on the mar and use of certain	ctions : Not applicable e, ket) .		
dangerous substar mixtures and article				

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety : No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

 Indicates information that has changed from previously issued version.
 Abbreviations and acronyms
 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

English (GB) United Arab Emirates

SECTION 16: Other information Full text of abbreviated H statements : H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye damage. H319 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. Full text of classifications : Acute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category Aquatic Chronic 3	Code : 00141369 SIGMACOVER 456 BASE BS	Date of issue/Date of revision : 20 December 2023
statements H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters ainways. H315 Causes skin irritation. H315 Causes skin irritation. H316 Causes serious eye damage. H319 Causes serious eye irritation. H328 Harmful if inhaled. H335 May cause an allergic skin reaction. H318 Causes serious eye irritation. H328 Harmful if inhaled. H336 May cause drowsiness or dizziness. H373 May cause drowsiness or dizzines. H311 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. Full text of classifications Faute Tox. 4 [CLP/GHS] Acute Tox. 4 Acute Tox. 1 ASPIRATION HAZARD - Category 4 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 <th></th> <th></th>		
[CLP/GHS]Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 3 Aquatic Chronic 4 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 	Full text of abbreviated H statements	 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.
History Date of issue/ Date of revision Date of previous issue Prepared by : EHS		Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Aquatic Chronic 4LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4Asp. Tox. 1ASPIRATION HAZARD - Category 1Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1BSKIN SENSITISATION - Category 1BSTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2STOT SE 3
revision Date of previous issue : 9 August 2023 Prepared by : EHS	-	
Prepared by : EHS		20 December 2023
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<u>Disclaimer</u>		: 2.02

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