# **SAFETY DATA SHEET**

United Arab Emirates

: 3.04

Date of issue/Date of revision

: 13 December 2024 Version

SECTION 1: Identifi undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMACOVER 456 BASE RAL 6001
Product code	: 00155507
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 <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 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 Hazard pictograms				
Signal word	: Warning			
		English (GB)	United Arab Emirates	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation	on (EU)
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# **SECTION 2: Hazards identification**

Hazard statements	<ul> <li>Flammable liquid and vapour. Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> <li>Harmful 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 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	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P304 + P312, P403 + P233, P501</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 requiren	nents
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 vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₩ylene	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]
		English	(GB) United Arab E	mirates	2/16

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SECTION 3: Comp	osition/informat	tion on ii	ngredients		
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥5.0 - ≤10	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]
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-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[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.

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

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 firs	t aid measures
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

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SECTION 4: First aid	l measures
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.
	ns and effects, both acute and delayed
Potential acute health effect	
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.
Over-exposure signs/symp	i <u>toms</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 immed	ate 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>

**Specific treatments** : No specific treatment.

# 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 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

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## **SECTION 5: Firefighting measures**

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 o	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.
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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
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## **SECTION 7: Handling and storage**

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.

## **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	
₩ylene	Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes, purs] Absorbed through skin. STEL 15 minutes: 442 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
ethylbenzene	Ministry of Labor (France, 9/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 88.4 mg/m <sup>3</sup> . STEL 15 minutes: 442 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
2-methylpropan-1-ol	Ministry of Labor (France, 9/2023) TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m <sup>3</sup> .

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Product/ingredient name	Exposure limit values
▶arium sulfate	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) TWA 8 hours: 10 mg/m <sup>3</sup> . Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 10 mg/m <sup>3</sup> . ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Inhalable fraction.
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)] A4.
	STEL 15 minutes: 651 mg/m³. STEL 15 minutes: 150 ppm.
	TWA 8 hours: 434 mg/m <sup>3</sup> . TWA 8 hours: 100 ppm.
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006)
	[xylene (all isomers)] STEL 15 minutes: 150 ppm.
	TWA 8 hours: 434 mg/m <sup>3</sup> .
	STEL 15 minutes: 651 mg/m³. TWA 8 hours: 100 ppm.
	ACGIH TLV (United States, 7/2023) [p-xylene and mixtures
	<b>containing p-xylene]</b> A4. Ototoxicant. TWA 8 hours: 20 ppm.
ethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3.
	STEL 15 minutes: 543 mg/m <sup>3</sup> .
	STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.
	TWA 8 hours: $434 \text{ mg/m}^3$ .
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 434 mg/m <sup>3</sup> .
	STEL 15 minutes: 543 mg/m³. TWA 8 hours: 100 ppm.
	ACGIH TLV (United States, 7/2023) A3. Ototoxicant. TWA 8 hours: 20 ppm.
carbon black, respirable powder	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 3.5 mg/m <sup>3</sup> .
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)
	TWA 8 hours: 3.5 mg/m <sup>3</sup> . ACGIH TLV (United States, 7/2023) A3.
	TWA 8 hours: 3 mg/m <sup>3</sup> . Form: Inhalable fraction.
2-methylpropan-1-ol	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016)
	TWA 8 hours: 152 mg/m <sup>3</sup> .
	TWA 8 hours: 50 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 152 mg/m <sup>3</sup> .
	TWA 8 hours: 50 ppm.
	ACGIH TLV (United States, 7/2023) TWA 8 hours: 50 ppm.
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1,3-bis[12-hydroxy-octadecar benzene	nide-N-methylene]-	TWA 8 hours: 152 mg/m <sup>3</sup> . <b>ACGIH TLV (United States)</b> TWA: 3 mg/m <sup>3</sup> (Respirable fraction). TWA: 10 mg/m <sup>3</sup> (Total dust).	
<b>x</b> ylene		<b>DOL BEI (South Africa, 3/2021) [xylenes]</b> BEI: 1.5 g/g creatinine, methylhippuric acid end of shift.	[in urine]. Sampling time
ethylbenzene		<b>DOL BEI (South Africa, 3/2021)</b> BEI: 0.15 g/g creatinine, sum of mandelic a acid [in urine]. Sampling time: end of shift.	icid and phenylglyoxylic
Recommended monitoring procedures	Standard EN 68 by inhalation to strategy) Europ application and biological agent requirements fo agents) Refere	Id be made to monitoring standards, such as t 39 (Workplace atmospheres - Guidance for the chemical agents for comparison with limit valu bean Standard EN 14042 (Workplace atmosph use of procedures for the assessment of expo its) European Standard EN 482 (Workplace atr or the performance of procedures for the measu ence to national guidance documents for metho ubstances will also be required.	assessment of exposure es and measurement eres - Guide for the sure to chemical and nospheres - General urement of chemical
.2 Exposure controls			
Appropriate engineering controls	other engineerin recommended vapour or dust o ventilation equip	dequate ventilation. Use process enclosures, I ng controls to keep worker exposure to airborn or statutory limits. The engineering controls als concentrations below any lower explosive limits oment.	e contaminants below an so need to keep gas,
Individual protection measur Hygiene measures	: Wash hands, for eating, smoking Appropriate tech Contaminated v contaminated c	prearms and face thoroughly after handling che g and using the lavatory and at the end of the w hniques should be used to remove potentially of work clothing should not be allowed out of the v lothing before reusing. Ensure that eyewash s base to the workstation location.	orking period. contaminated clothing. vorkplace. Wash
Eye/face protection Skin protection	: Chemical splas	h goggles.	
Hand protection	worn at all times necessary. Cor during use that noted that the ti glove manufact protection time frequently repea (breakthrough ti When only brief (breakthrough ti The user must of product is the m	cant, impervious gloves complying with an appr s when handling chemical products if a risk ass nsidering the parameters specified by the glove the gloves are still retaining their protective pro- me to breakthrough for any glove material may urers. In the case of mixtures, consisting of se of the gloves cannot be accurately estimated. ated contact may occur, a glove with a protection ime greater than 480 minutes according to EN f contact is expected, a glove with a protection ime greater than 30 minutes according to EN 3 check that the final choice of type of glove sele nost appropriate and takes into account the par he user's risk assessment.	sessment indicates this is a manufacturer, check perties. It should be be different for different veral substances, the When prolonged or on class of 6 374) is recommended. class of 2 or higher 74) is recommended. cted for handling this
Gloves	: butyl rubber		
Body protection	performed and handling this pro static protective should include a	tive equipment for the body should be selected the risks involved and should be approved by a oduct. When there is a risk of ignition from sta e clothing. For the greatest protection from stat anti-static overalls, boots and gloves. Refer to information on material and design requirement	a specialist before tic electricity, wear anti- ic discharges, clothing European Standard EN

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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.			
<b>Respiratory protection</b>	: · · · · · · · · · · · · · · · · · · ·			
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 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	: Not determined.
Initial boiling point and boiling range	: >37.78°C
Flammability	: Not determined. There are no data available on the mixture itself.
Upper/lower flammability or explosive limits	: Not available.
Flash point	: Closed cup: 27°C
Auto-ignition temperature	: 430°C (806°F)
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).
рН	: Not applicable. insoluble in water.
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s
Viscosity	: 60 - 100 s (ISO 6mm)

Solubility(ies) :	
Media	Result
cold water	Not soluble
Partition coefficient: n-octanol/ :	Not applicable

Partition coefficient: n-octanol/ : Not applicable.

## water

Vapour pressure

:	Ingredient name	Vapour Pressure at 20°C		Vapour pressure at 50°C			
		mm Hg	kPa	Method	mm Hg	kPa	Method
	2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			

Relative density	: 1.4
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 present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.

### 9.2 Other information

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**SECTION 9: Physical and chemical 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.
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	-
1,3-bis[12-hydroxy-octadecamide-N- methylene]-benzene	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	LC50 Inhalation Dusts and mists	Rat	5.05 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
xylene epoxy resin (MW ≤ 700	))	Skin - Moderate irritant Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit Rabbit	- - -	24 hours 500 mg - -	
Conclusion/Summary				1	•	
Skin : There are no data available on the mixture itself.						
Eyes : There are no data available on the		mixture itself				
Respiratory Sensitisation	•					

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## **SECTION 11:** Toxicological information

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 avai	lable on the mixtur	re itself.	
Respiratory	: There are no data available on the mixture itself.			
Mutagenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	re itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	re itself.	
Teratogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	re itself.	
Specific target organ toxi	<u>city (single exposure)</u>			

Product/ingredient name	Category	Route of exposure	Target organs
xylene 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
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely : Not available.

## routes of exposure

### Potential acute health effects

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

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SECTION 11: Toxicol	0	gical information
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<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.		
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	1	No known significant effects or critical hazards.

Other information : Not available.

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
<mark>e</mark> poxy 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
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	Acute LC50 >100 mg/l	Fish	96 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus	96 hours
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**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	-	

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
ylene epoxy resin (MW ≤ 700) ethylbenzene 2-methylpropan-1-ol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	3.12 3 3.6 1 >5.86	7.4 to 18.5 31 79.43 - -	Low Low Low Low High

### 12.4 Mobility in soil

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

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

### Packaging

**Methods of disposal** 

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

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

## **SECTION 14: Transport information**

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

#### **Additional information**

ADR/RID	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code	: (D/E)
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

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<b>SECTION 14: Transport info</b>	rmation
IATA : None identified.	
user upright a	<b>ort within user's premises:</b> always transport in closed containers that are and secure. Ensure that persons transporting the product know what to do in the f an accident or spillage.
14.7 Transport in bulk: Not appaccording to IMOinstruments	licable.
SECTION 15: Regulatory info	ormation
15.1 Safety, health and environmental re	egulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (RE	<u>ACH)</u>
Annex XIV - List of substances subje	<u>ct to authorisation</u>
Annex XIV	
None of the components are listed.	
Substances of very high concern	
None of the components are listed.	
Annex XVII - Restrictions : Not app on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	licable.
Other national and international regula	<u>ations.</u>
Explosive precursors : Not appl	icable.
Ozone depleting substances (1005/20 Not listed.	<u>09/EU)</u>
15.2 Chemical safety : No Cher	nical Safety Assessment has been carried out.

assessment

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

		English (GB) United Arab Emirates 15/16	
	H373	May cause damage to organs through prolonged or repeated exposure.	
	H336	May cause drowsiness or dizziness.	
	H335	May cause respiratory irritation.	
	H332	Harmful if inhaled.	
	H319	Causes serious eye irritation.	
	H318	Causes serious eye damage.	
	H317	May cause an allergic skin reaction.	
	H315	Causes skin irritation.	
	H312	Harmful in contact with skin.	
	H304	May be fatal if swallowed and enters airways.	
statements	H226	Flammable liquid and vapour.	
Full text of abbreviated H	: H225	Highly flammable liquid and vapour.	
	DNEL = EUH sta PNEC =	e Derived No Effect Level atement = CLP-specific Hazard statement = Predicted No Effect Concentration REACH Registration Number	
acronyms		Classification, Labelling and Packaging Regulation [Regulation (EC) No.	
Abbreviations and	: ATF = 4	Acute Toxicity Estimate	
indicates information that has changed from previously issued version.			

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	H412 Harmful to aq	tic life with long lasting effects. uatic life with long lasting effects. ng lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 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 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 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 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 13 December 2024	
Date of previous issue	: 11 October 2024	
Prepared by	: EHS	
Version	: 3.04	

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