SAFETY DATA SHEET

Date of issue/Date of revision

: 29 February 2024 Version





: 1

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

1.1 Product identifier	
Product name	: SIGMACOVER 456 BASE RED
Product code	: 000001201564
Other means of identificati 00476572	on
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	the safety data sheet
Sigma Paint Saudi Arabia Lto PO Box 7509, Dammam 314 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
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 Aquatic Chronic 3, H412 The product is classified as bazardous according to Regulation (EC) 1272/2008 as an

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



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SECTION 2: Hazards identification

	: Warning
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye 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. Avoid breathing vapour.
Response	: Take off contaminated clothing and wash it before reuse.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P362 + P364, P501
Hazardous ingredients	: epoxy resin (MW ≤ 700) Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine rosin
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
	1	English	h (GB)	Saudi	Arabia	2/15

Code : 000001201 SIGMACOVER 456 BASE F		Da	ate of issue/Date of revisi	on : 29 Februar	ry 2024
SECTION 3: Comp	osition/informat	tion on in	ngredients		
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤18	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]
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	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[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]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≤0.30	Skin Sens. 1, H317	-	[1] [2]
			See Section 16 for the full text of the H statements declared		

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.

above.

[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.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

English (GB)	Saı
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Conforms 2020/878	to Regulation (EC) No. 1907/2006	6 (REACH), Annex II, as amended by Commissio	n Regulation (EU)
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CECTION A. First and massaures			

Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

: Causes serious eye irritation.
: No known significant effects or critical hazards.
: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: No known significant effects or critical hazards.
oms
: Adverse symptoms may include the following: pain or irritation watering redness
: No specific data.
: Adverse symptoms may include the following: irritation redness dryness cracking
: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: 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	from 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	: Decomposition products may include the following materials:

Hazardous combustion : products	Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
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5.3 Advice for firefighters

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SECTION 5: Firefighting measures

Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suital training. Move containers from fire area if this can be done without risk. Use wate spray to keep fire-exposed containers cool.	ble
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breat apparatus (SCBA) with a full face-piece operated in positive pressure mode. Cloth for fire-fighters (including helmets, protective boots and gloves) conforming to Euror standard EN 469 will provide a basic level of protection for chemical incidents.	ning

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.
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

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

	ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
rosin	ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitiser. Inhalation sensitiser. TWA: 0.001 mg/m ³ , (as total Resin acids) 8 hours. Form: Inhalable fraction

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SIGMACOVER 456 BASE RED Recommended monitoring procedures	: 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	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: Chemical splash goggles.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear 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	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:
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.

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SECTION 9: Physical and chemical properties

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

	and chemical propert	Ies						
Appearance								
Physical state	: Liquid.	•						
Colour	: Red.							
Odour	: Aromatic. [Strong]							
Odour threshold	: Not available.							
Melting point/freezing point	: May start to solidify a on data for the follow (-139.2°F)							
Initial boiling point and boiling range	: >37.78°C							
Flammability	: Not available.							
Upper/lower flammability or explosive limits	: Greatest known rang	je: Lower:	1.7% L	Jpper: 10.9 ⁰	% (2-meth <u>y</u>	ylpropan-1	-ol)	
Flash point	: Closed cup: 27°C							
Auto-ignition temperature	: Ingredient name		°C	°F		Method		
	4-[[4-(aminocarbonyl)phe (2-ethoxyphenyl) -3-hydroxynaphthalene-2		>140 e	>28				
Decomposition temperature	: Stable under recomn	nended sto	orade ai	nd handling	conditions	s (see Sec	tion 7).	
рН	: Not applicable.		0	0		,	,	
Viscosity	Kinematic (room temperature): >400 mm²/s							
	Kinematic (40°C): >2		>400 m	nm²/s				
Viscosity	Kinematic (40°C): >2 : 60 - 100 s (ISO 6mm	21 mm²/s	>400 m	nm²/s				
-	(<i>'</i>	21 mm²/s	>400 m	nm²/s				
Viscosity Solubility(ies) Media	(<i>'</i>	21 mm²/s	>400 m	nm²/s				
Solubility(ies)	: 60 - 100 s (ISO 6mm :	21 mm²/s	>400 m	nm*/s				
Solubility(ies) Media cold water Partition coefficient: n-octanol/	: 60 - 100 s (ISO 6mm : Result Not soluble	21 mm²/s	>400 m	nm*/s				
Media cold water	: 60 - 100 s (ISO 6mm : Result Not soluble	21 mm²/s 1)		nm ² /s	C Var	Dour press	sure at 50°	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	: 60 - 100 s (ISO 6mm : Result Not soluble	21 mm²/s 1)	r Press		C Vap mm Hg	oour press	sure at 50°	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	: 60 - 100 s (ISO 6mm : Result Not soluble : Not applicable. :	21 mm²/s 1) Vapou	r Press kPa	sure at 20°C	mm		sure at 50° Method	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 	Vapou mm Hg <12.00102	<mark>r Press</mark> kPa <1.6	Sure at 20°C Method DIN EN 13016-2	mm Hg	kPa	Method	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value 	Vapou mm Hg <12.00102	<mark>r Press</mark> kPa <1.6	Sure at 20°C Method DIN EN 13016-2	mm Hg	kPa	Method	
Solubility(ies) Media cold water Partition coefficient: n-octanol/water Vapour pressure Evaporation rate Relative density Vapour density	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.4 Highest known value 	Vapou mm Hg <12.00102 :: 0.84 (eth :: 3.7 (Air	r Press kPa <1.6 ylbenze = 1) (xy	Sure at 20°C Method DIN EN 13016-2 ene) Weigh /lene). Wei	ted averag	kPa je: 0.77coi	Method mpared with (Air = 1)	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.4 Highest known value The product itself is r vapour or dust with a 	Vapou mm Hg <12.00102 :: 0.84 (eth :: 3.7 (Air not explosi iir is possil	r Press kPa <1.6 ylbenze = 1) (xy ive, but ble.	Sure at 20°C Method DIN EN 13016-2 ene) Weigh /lene). Wei the formation	ted averag	kPa je: 0.77coi	Method mpared wit (Air = 1)	
Solubility(ies) Media cold water Partition coefficient: n-octanol/water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.4 Highest known value The product itself is r 	Vapou mm Hg <12.00102 :: 0.84 (eth :: 3.7 (Air not explosi iir is possil	r Press kPa <1.6 ylbenze = 1) (xy ive, but ble.	Sure at 20°C Method DIN EN 13016-2 ene) Weigh /lene). Wei the formation	ted averag	kPa je: 0.77coi	Method mpared with (Air = 1)	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.4 Highest known value The product itself is r vapour or dust with a Product does not present the second s	Vapou mm Hg <12.00102 :: 0.84 (eth :: 3.7 (Air not explosi iir is possil	r Press kPa <1.6 ylbenze = 1) (xy ive, but ble.	Sure at 20°C Method DIN EN 13016-2 ene) Weigh /lene). Wei the formation	ted averag	kPa je: 0.77coi	Method mpared wit (Air = 1)	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.4 Highest known value The product itself is r vapour or dust with a 	Vapou mm Hg <12.00102 :: 0.84 (eth :: 3.7 (Air not explosi iir is possil	r Press kPa <1.6 ylbenze = 1) (xy ive, but ble.	Sure at 20°C Method DIN EN 13016-2 ene) Weigh /lene). Wei the formation	ted averag	kPa je: 0.77coi	Method mpared with (Air = 1)	
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics	 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.4 Highest known value The product itself is r vapour or dust with a Product does not present the second s	Vapou mm Hg <12.00102 :: 0.84 (eth :: 3.7 (Air not explosi iir is possil	r Press kPa <1.6 ylbenze = 1) (xy ive, but ble.	Sure at 20°C Method DIN EN 13016-2 ene) Weigh /lene). Wei the formation	ted averag	kPa je: 0.77coi	Method mpared wit (Air = 1)	

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SECTION 10: Stability and reactivity

	-	
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides 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	-
Octadecanoic acid, 12-hydroxy-, reaction	LC50 Inhalation Dusts and	Rat	5.05 mg/l	4 hours
products with ethylenediamine	mists		U U	
	LD50 Oral	Rat	>2000 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 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	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	

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SECTION 11: Toxicological information

Product/ingred	lient name	Rout expo		Species	Result
epoxy resin (MW ≤ 700) Octadecanoic acid, 12-hydrox ethylenediamine	skin with skin		Mouse Guinea pig	Sensitising Sensitising	
Conclusion/Summary					
Skin	: There are no data	a available on th	e mixtur	e itself.	
Respiratory	: There are no data	a available on th	e mixtur	e itself.	
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data	a available on th	e mixtur	e itself.	
<u>Carcinogenicity</u>					
Conclusion/Summary	: There are no data	a available on th	e mixtur	e itself.	
Reproductive toxicity					
Conclusion/Summary	: There are no data	a available on th	e mixtur	e itself.	
<u>Feratogenicity</u>	. Theorem 1 .			- :4 16	
Conclusion/Summary	: There are no data			TT	
Product/ingr	redient name	Cat	egory	Route of exposure	Target organs
nformation on likely routes of exposure	: Not available.			·	
Potential acute health effect	<u>ts</u>				
Inhalation	: No known signific	ant effects or cr	itical haz	zards.	
Ingestion	: No known signific	ant effects or cr	itical haz	zards.	
Skin contact	: Causes skin irritat	tion. Defatting t	o the ski	in. May cause an al	lergic skin reaction.
Eye contact	: Causes serious e	ye irritation.			
Symptoms related to the ph	ysical, chemical and	toxicological	<u>charact</u>	<u>eristics</u>	
Inhalation	: No specific data.				
Ingestion	: No specific data.				
Skin contact	: Adverse symptom irritation redness dryness cracking	ns may include t	he follov	ving:	
Eye contact	: Adverse symptom pain or irritation watering redness	ns may include t	he follov	ving:	
Delayed and immediate effe	cts as well as chron	ic effects from	<u>short a</u>	nd long-term expo	<u>sure</u>
<u>Short term exposure</u>					
	: Not available.				
Potential immediate effects					
effects					
effects Potential delayed effects					
effects Potential delayed effects Long term exposure Potential immediate	Not available.Not available.				

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SECTION 11: Toxicological information

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	: 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
epoxy resin (MW \leq 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
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
epoxy 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.

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SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene 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 \leq 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
rosin	1.9 to 7.7	-	High

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

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

Packaging

English	(GB)
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation	i (EU)
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SECTION 13: Disposal considerations

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	Ш	Ш	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 IATA	 This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. None identified. 			
14.6 Special pr	ecautions for : Transport within user's premises: always transport in closed containers that are			

user user analysis 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

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SIGMACOVER 456 BASE RED SECTION 15: Regulatory information				
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>				

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: Not applicable.Other national and international regulations.
Explosive precursors: Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	E	English (GB)	Saudi Arabia	14/15
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1	LONG-TERM LONG-TERM ASPIRATION SERIOUS EYI SERIOUS EYI FLAMMABLE FLAMMABLE SKIN CORRO	CITY - Category 4 (CHRONIC) AQUATIC HAZ/ (CHRONIC) AQUATIC HAZ/ HAZARD - Category 1 E DAMAGE/EYE IRRITATIO E DAMAGE/EYE IRRITATIO LIQUIDS - Category 2 LIQUIDS - Category 3 SION/IRRITATION - Catego SATION - Category 1	ARD - Category 3 N - Category 1 N - Category 2
Full text of abbreviated H statements	H226FlammableH304May be fataH312Harmful inH315Causes skiH317May causeH318Causes serH319Causes serH332Harmful if irH335May causeH336May causeH373May causeH317May cause	an allergic skin react ious eye damage. ious eye irritation. nhaled. respiratory irritation. drowsiness or dizzin damage to organs th uatic life with long las aquatic life with long	iters airways. ion. ess. rough prolonged or repeated ting effects. lasting effects.	exposure.
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 			
	nas changed from previou	siy issued version.		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU))
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SECTION 16: Other information				

	Skin Sens. 1B STOT RE 2	SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 29 February 2024	
Date of previous issue	: No previous validation	
Prepared by	: EHS	
Version	: 1	
<u>Disclaimer</u>		

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