SAFETY DATA SHEET

Date of issue/Date of revision

: 20 December 2023 Version



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SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : SIGMACOVER 456 US REDBROWN 6179 **Product code** : 00333345 Other means of identification Not available. 1.2 Relevant identified uses of the substance or mixture and uses advised against **Product use** : Industrial applications, Used by spraying. Use of the substance/ : Coating. mixture : Product is not intended, labelled or packaged for consumer use. **Uses advised against** 1.3 Details of the supplier of the safety data sheet Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34 e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS : 00966 138473100 extn 1001 **1.4 Emergency telephone** number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Fire Irrit. 2, H315

Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360FD STOT RE 1, H372 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	identificat	ion	
Hazard pictograms	•		
Signal word	: Danger		
Hazard statements	: Flammable I Causes skin May cause a Causes serie May damage Causes dam	liquid and vapour. n irritation. an allergic skin reaction. ious eye irritation. le fertility. May damage the unborn child. nage to organs through prolonged or repeated exp aquatic life with long lasting effects.	oosure.
Precautionary statements			
Prevention	protective gl	dle until all safety precautions have been read and loves, protective clothing and eye or face protections, sparks, open flames and other ignition sources. pour.	on. Keep away from heat
Response	: IF exposed of	or concerned: Get medical advice or attention.	
Storage	: Not applicab	ble.	
Disposal	international	contents and container in accordance with all loca I regulations. I, P210, P260, P308 + P313, P501	l, regional, national and
Hazardous ingredients	bis-[4-(2,3-e Epoxy Resir	ilica, respirable powder (<10 microns) epoxipropoxi)phenyl]propane n (700 <mw<=1100) exyl) phthalate</mw<=1100) 	
Supplemental label elements	: Contains ep	poxy constituents. May produce an allergic reaction	٦.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to	o professional users.	
Special packaging requiren	<u>nents</u>		
Containers to be fitted with child-resistant fastenings	: Not applicab	ble.	
Tactile warning of danger	: Not applicab	ble.	
2.3 Other hazards			
Product meets the criteria for PBT or vPvB	: This mixture	e does not contain any substances that are assess	sed to be a PBT or a vPv
Other hazards which do not result in classification	: Prolonged o	or repeated contact may dry skin and cause irritation	on.
	May cause e	endocrine disruption.	

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture Specific Conc. % **Product/ingredient name Classification Identifiers** Туре Limits, M-factors and ATEs ≥10 - <20 EC: 215-535-7 Flam. Liq. 3, H226 ATE [Dermal] = 1700 xylene [1] [2] Acute Tox. 4, H312 mg/kg CAS: 1330-20-7 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 crystalline silica, respirable ≥10 - ≤25 STOT RE 1, H372 EC: 238-878-4 [1] [2] powder (<10 microns) CAS: 14808-60-7 (inhalation) bis-[4-(2,3-epoxipropoxi) REACH #: ≥5.0 - ≤10 Skin Irrit. 2, H315 Skin Irrit. 2, H315: C ≥ [1] phenyl]propane 01-2119456619-26 Eye Irrit. 2, H319 5% EC: 216-823-5 Skin Sens. 1, H317 Eye Irrit. 2, H319: C ≥ CAS: 1675-54-3 Aquatic Chronic 2, H411 5% Index: 603-073-00-2 Epoxy Resin (700<MW CAS: 67924-34-9 ≥1.0 - ≤5.0 Skin Irrit. 2, H315 [1] <=1100) Eve Irrit. 2. H319 Skin Sens. 1, H317 ≥1.0 - ≤5.0 Flam. Liq. 2, H225 ATE [Inhalation ethylbenzene REACH #: [1] [2] (vapours)] = 17.8 mg/l 01-2119489370-35 Acute Tox. 4, H332 EC: 202-849-4 STOT RE 2, H373 CAS: 100-41-4 (hearing organs) Index: 601-023-00-4 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 ≥1.0 - ≤5.0 bis(2-ethylhexyl) phthalate EC: 204-211-0 Repr. 1B, H360FD [1] [2] CAS: 117-81-7 [3] Index: 607-317-00-9 Hydrocarbons, C9, <1.0 REACH #: Flam. Liq. 3, H226 Carc. 1B, H350: C ≥ [1] aromatics > 0.1% cumene 01-2119455851-35 Carc. 1B, H350 10% EC: 918-668-5 STOT SE 3, H335 EUH066: C ≥ 20% CAS: 64742-95-6 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 toluene ≤0.30 Flam. Liq. 2, H225 [1] [2] REACH #: 01-2119471310-51 Skin Irrit. 2, H315 EC: 203-625-9 Repr. 2, H361d CAS: 108-88-3 STOT SE 3, H336 Index: 601-021-00-3 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.

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SECTION 3: Composition/information on ingredients

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. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: 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.
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 effects	
Eye contact :	Causes serious eye irritation.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion :	No known significant effects or critical hazards.
Over-exposure signs/sympton	<u>15</u>
Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation :	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations

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SECTION 4: First aid measures

Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any imm	ediate 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 specific treatment.
opecific treatments	. No specific freatment

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

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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SECTION 6: Accidental release measures

SECTION 0. Accidental release measures		
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 fo	r 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 50°C (122°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.
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SECTION 7: Handling and storage

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
Viene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 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/m ³ 8 hours. STEL: 651 mg/m ³ 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.
crystalline silica, respirable powder (<10 microns)	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 0.1 mg/m ³ 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [silica (inhalable particle)/ (respirable particulate)] TWA: 10 mg/m ³ 8 hours. Form: inhalable particle TWA: 3 mg/m ³ 8 hours. Form: respirable particulate Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [quartz silica crystalline–α-quartz and cristobalite] TWA: 0.025 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol ACGIH TLV (United States, 1/2023). [Silica, crystalline] Notes: Respirable fraction; see Appendix C, paragraph C. TWA: 0.025 mg/m ³ 8 hours. Form: Respirable
crystalline silica, respirable powder (>10 microns)	, i
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Talc , not containing asbestiform fibres	 TWA: 0.025 mg/m³ 8 hours. Form: measured as respirable fraction of the aerosol ACGIH TLV (United States, 1/2023). [Silica, crystalline] Notes: Respirable fraction; see Appendix C, paragraph C. TWA: 0.025 mg/m³ 8 hours. Form: Respirable 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
diiron trioxide	 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 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 5 mg/m³ 8 hours. Form: measured as respirable fraction of
ethylbenzene	 the aerosol Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). Notes: Refers to Appendix I Substances of Variable Composition. Respirable fraction; see Appendix C, paragraph C. TWA: 5 mg/m³ 8 hours. Form: Respirable fraction Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 543 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 125 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours. STEL: 543 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption. TWA: 20 ppm 8 hours.
bis(2-ethylhexyl) phthalate	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 5 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m³ 8 hours. STEL: 10 mg/m³ 15 minutes. ACGIH TLV (United States, 1/2023). Absorbed through skin. Notes: 1999 Adoption. TWA: 0.1 mg/m³ 8 hours.
procedures Standard EN by inhalation strategy) Eur application ar biological age requirements	ould be made to monitoring standards, such as the following: European 689 (Workplace atmospheres - Guidance for the assessment of exposur to chemical agents for comparison with limit values and measurement ropean Standard EN 14042 (Workplace atmospheres - Guide for the nd use of procedures for the assessment of exposure to chemical and ents) European Standard EN 482 (Workplace atmospheres - General for the performance of procedures for the measurement of chemical erence to national guidance documents for methods for the determination

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	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 meas	<u>ires</u>
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	: Chemical splash goggles.
Skin protection	
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.

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	: Not available.
Odour	: Characteristic.
Odour threshold	: Not available.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 00333345 Date of issue/Date of revision : 20 December 2023 SIGMACOVER 456 US REDBROWN 6179 : 20 December 2023

SECTION 9: Physical and chemical properties

-							
Melting point/freezing point	:	May start to solidify at the following temperature: 8 to 12° C (46.4 to 53.6° F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: -71.1° C (-96° F)					
Initial boiling point and boiling range	:	>37.78°C					
Flammability	1	Not available.					
Upper/lower flammability or explosive limits	:	Greatest known range: Lower:	0.8% Upp	er: 6.7% (xyle	ne)		
Flash point	:	Closed cup: 27.22°C					
Auto-ignition temperature	:	Ingredient name	°C	°F	Method		
		bis(2-ethylhexyl) phthalate	390	734			
Decomposition temperature	:	Stable under recommended sto	orage and	handling cond	itions (see Section 7).		
рН	1	Not applicable. insoluble in water.					
Viscosity	4	Kinematic (40°C): >21 mm²/s					
Solubility(ies)	1						
Media		Result					
cold water		Not soluble					
Water Solubility at room temperature	:	0.1 g/l					
Partition coefficient: n-octanol/ water	:	Not applicable.					
Vapour pressure	1	0.87 kPa (6.5 mm Hg)					
Evaporation rate	1	0.62 (butyl acetate = 1)					
Relative density	1	1.36					
Vapour density	:	Highest known value: 13.45 (A average: 6.12 (Air = 1)	ir = 1) (bi	s(2-ethylhexyl)	phthalate). Weighted		
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.					
		Product does not present an oxidizing hazard.					
Oxidising properties	1	Froduct does not present an ox	auzing na	Luiu.			
Oxidising properties <u>article characteristics</u>	1	Froduct does not present an ox					

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.			

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SECTION	l 10: Stability a	nd reactivity		
10.5 Incompa			following materials to prevent strong exot ong alkalis, strong acids.	hermic reactions:

10.6 Hazardous	: Depending on conditions, decomposition products may include the following materials:
decomposition products	carbon oxides halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/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	-
bis(2-ethylhexyl) phthalate	LD50 Dermal	Rabbit	25 g/kg	-
	LD50 Oral	Rat	30 g/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat - Female	3492 mg/kg	-
toluene	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	49 g/m³ 8.39 g/kg 5580 mg/kg	4 hours - -

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

Conclusion/Summary

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

There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name bis-[4-(2,3-epoxipropoxi)phenyl]propane		Route of exposure	Species	Result
		skin	Mouse	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 <u>Carcinogenicity</u>	: There are no data ava	ilable on the mixtur	e itself.	

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SECTION 11: Toxicological information

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

<u>ity</u>

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

Conclusion/Summary

: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects
toluene	Category 3 Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 1	inhalation	-
	Category 2	-	hearing organs
	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9, aromatics > 0.1% cumene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on likely

: Not available.

routes of exposure Potential acute health effects

Inhalation	No known significant effects or critical hazards.
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 phy	sical, chemical and toxicological characteristics
Inhalation	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations

Conforms to Regulation (EC) 2020/878	No	. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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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	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	May damage fertility. May damage the unborn child.

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

May cause endocrine disruption.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	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	Daphnia -	-
	water	Ceriodaphnia dubia	
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l LC50 9.2 mg/l	Daphnia Fish	48 hours 96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

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Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-

75 % - Readily - 28 days

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
bis-[4-(2,3-epoxipropoxi)phenyl]propane	-	-	Not readily
ethylbenzene	-	-	Readily
Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
toluene	-	-	Readily

12.3 Bioaccumulative potential

Hydrocarbons, C9, aromatics

> 0.1% cumene

Product/ingredient name	LogPow	BCF	Potential
xylene ethylbenzene	3.12 3.6	7.4 to 18.5 79.43	Low Low
bis(2-ethylhexyl) phthalate	7.6	588.84	High
toluene	2.73	8.32	Low

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

May cause endocrine disruption.

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	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
European waste catalog	ue (EWC)

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SECTION 13: Disposal considerations

	Waste code	Waste designation
	08 01 99	wastes not otherwise specified
<u>P</u>	ackaging	

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	e 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 shoul taken when handling emptied containers that have not been cleaned or rinsed Empty containers or liners may retain some product residues. Vapour from pr residues may create a highly flammable or explosive atmosphere inside the co Do not cut, weld or grind used containers unless they have been cleaned thore internally. Avoid dispersal of spilt material and runoff and contact with soil, wa drains and sewers. 	

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	111	111	Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.		
Tunnel code	: (D/E)		
IMDG	: None identified.		
ΙΑΤΑ	: None identified.		

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not applicable.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction Endocrine disrupting properties for human health	bis(2-ethylhexyl) phthalate bis(2-ethylhexyl) phthalate	Listed Listed	4 4	12/14/2021 12/14/2021

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction Endocrine disrupting properties for human health	bis(2-ethylhexyl) phthalate bis(2-ethylhexyl) phthalate	Recommended Recommended	ED/30/2017 ED/30/2017	7/10/2019 7/10/2019
Endocrine disrupting properties for environment	bis(2-ethylhexyl) phthalate	Recommended	ED/30/2017	7/10/2019

- Annex XVII Restrictions : Restricted to professional users.
- on the manufacture,
- placing on the market and use of certain
- dangerous substances,

mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
Full text of abbreviated H statements	 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. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation.

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	H336 May cause d H350 May cause c H360FD May damage H361d Suspected o H372 Causes dam H373 May cause d H411 Toxic to aqua H412 Harmful to a EUH066 Repeated ex	e fertility. May damage the unborn child. f damaging the unborn child. age to organs through prolonged or repeated exposure. amage to organs through prolonged or repeated exposure. atic life with long lasting effects. quatic life with long lasting effects. posure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 1B Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 1B Repr. 2 Skin Irrit. 2 Skin Sens. 1 STOT RE 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 1B SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 1B REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u> Date of issue/ Date of	: 20 December 2023	
revision		
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