# **SAFETY DATA SHEET**

United Arab Emirates

: 1.03

Date of issue/Date of revision

: 19 February 2024 Version

SECTION 1: Identifi undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMAGUARD 720 BASE GREEN
Product code	: 000001189897
Other means of identification 00452454	tion
1.2 Relevant identified uses	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 Li PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	td.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

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SECTION 2: Hazards identification				
Hazard pictograms	:			
Signal word	:	Warning		
Hazard statements	:	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Toxic 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. Do not breathe vapour.		
Response	:	Collect spillage.		
Storage	:	Not applicable.		
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P260, P391, P501		
Hazardous ingredients		bis-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700 <mw<=1100) Phenol, styrenated crystalline silica, respirable powder (&lt;10 microns)</mw<=1100) 		
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 requirem	nent	<u>'S</u>		
Containers to be fitted with child-resistant fastenings	:	Not applicable.		
Tactile warning of danger	:	Not applicable.		
2.3 Other hazards				
Product meets the criteria for PBT or vPvB	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB		
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.		

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

# 3.2 Mixtures

: Mixture

Epoxy Resin (700 <mw CAS CAS Epoxy Resin (700<mw CAS CAS CAS CAS EC: CAS CAS EC: CAS</mw </mw 	EACH #: -2119456619-26 2: 216-823-5 AS: 1675-54-3 Jex: 603-073-00-2 2: 215-535-7 AS: 1330-20-7		Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 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	and ATEs Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
Epoxy Resin (700 <mw &lt;=1100) Phenol, styrenated EC:</mw 	\S: 1330-20-7 \S: 25036-25-3		Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	mg/kg ATE [Inhalation	[1] [2]
<=1100) Phenol, styrenated EC:		≥1.0 - ≤5.0			
			Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
	): 262-975-0 \S: 61788-44-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
01-2 EC: CAS	ACH #: -2119484609-23 : 201-148-0 \S: 78-83-1 lex: 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]
	2: 238-878-4 AS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	-	[1] [2]
01-2 EC: CAS	EACH #: -2119489370-35 : 202-849-4 \S: 100-41-4 Jex: 601-023-00-4		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]
acid, reaction products with 01-0 I,3-benzenedimethanamine EC: and hexamethylenediamine CAS	ACH #: -0000017900-73 : 432-840-2 \S: 220926-97-6 lex: 616-201-00-7	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
aromatics < 0.1% cumene 01-2 EC:	ACH #: -2119455851-35 : 918-668-5 \S: 64742-95-6	≤1.8	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1]
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ECTION 3: Composition/information	on on ingredients	
	See Section 16 for the full text of the H statements declared above.	

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains  $\geq$  1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

4.1 Description of mot and n	
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	: 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	<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	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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

Potential acute health e	ffects
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/sy	<u>imptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any imm	nediate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
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SECTION	5: Firefighting measures		
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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 f	ron	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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters		
Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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# **SECTION 6: Accidental release measures**

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

# **SECTION 7: Handling and storage**

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

## 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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# **SECTION 8: Exposure controls/personal protection**

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

# 8.1 Control parameters

**Occupational exposure limits** 

Product/ingredient name	Exposure limit values
Talc , not containing asbestiform fibres crystalline silica, respirable powder (>10 microns)	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 2 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 0.1 mg/m <sup>3</sup> 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 <sup>3</sup> 8 hours. Form: inhalable particle TWA: 3 mg/m <sup>3</sup> 8 hours. Form: respirable
xylene	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 <sup>3</sup> 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 <sup>3</sup> 8 hours. Form: Respirable Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m <sup>3</sup> 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)]
titanium dioxide	<ul> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant.</li> <li>TWA: 20 ppm 8 hours.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 1/2023).</li> <li>TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: respirable fraction, finescale</li> </ul>

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001189897 Date of issue/Date of revision : 19 February 2024 SIGMAGUARD 720 BASE GREEN particles Abu Dhabi - OSHAD - Occupational air guality threshold limit 2-methylpropan-1-ol values (United Arab Emirates, 7/2016). TWA: 152 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 152 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). TWA: 152 mg/m<sup>3</sup> 8 hours. TWA: 50 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<sup>3</sup> 8 hours. Abu Dhabi - OSHAD - Occupational air guality threshold limit values (United Arab Emirates, 7/2016). [silica (inhalable particle)/ (respirable particulate)] TWA: 10 mg/m<sup>3</sup> 8 hours. Form: inhalable particle TWA: 3 mg/m<sup>3</sup> 8 hours. Form: respirable particulate Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [quartz silica crystalline– $\alpha$ -quartz and cristobalite] TWA: 0.025 mg/m<sup>3</sup> 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<sup>3</sup> 8 hours. Form: Respirable ethylbenzene Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 543 mg/m<sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m<sup>3</sup> 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<sup>3</sup> 8 hours.

STEL: 543 mg/m<sup>3</sup> 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.

# 12-hydroxyoctadecanoic acid, reaction products<br/>with 1,3-benzenedimethanamine and<br/>hexamethylenediamineACGIH TLV (United States).TWA: 10 mg/m³ Form: Inhalable particle<br/>TWA: 3 mg/m³, (inhalable dust) Form: Respirable particle

**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

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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation o 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	<u>res</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 <u>Skin protection</u>	: 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin 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	: Green.
Odour	: Aromatic. [Slight]
Odour threshold	: Not available.
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: -22.67°C (-8.8°F)

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SECTION 9: Physical a	Ind	chemical prop	erties						
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.7% Uj	oper: 10.	9% (2-m	ıethylp	oropan-1	-ol)
Flash point	:	Closed cup: 35°C							
Auto-ignition temperature	:	Ingredient name		°C	0	F	N	Method	
		Hydrocarbons, C9, aroma cumene	atics < 0.1%	280 to 4	70 53	36 to 878			
Decomposition temperature pH Viscosity Viscosity Solubility(ies)		Stable under recomm Not applicable. Kinematic (40°C): >2 > 100 s (ISO 6mm)		orage an	d handlir	ng condi	tions (	see Sec	tion 7).
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octano water	۱/ :	Not applicable.							
Vapour pressure	:		Vapour Pressure at 20°C			Vapo	our press	sure at 50°C	
		Ingredient name	mm Hg	kPa	Metho	d m H	ım g	kPa	Method
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (eth	ıylbenzer	ne) Weig	ghted av	erage	: 0.75cor	npared with
Relative density	:	1.56							
Vapour density		Highest known value Weighted average: 9	.15 (Air =	1)					
Explosive properties	- 1	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.							
Oxidising properties Particle characteristics	-	Product does not pre	sent an o	kidizing h	azard.				
Median particle size	:	Not applicable.							

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.				

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878							
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SECTION 10: Stability and reactivity							
<b>10.5 Incompatible materials</b> : 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 metal oxide/oxides						

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat	3550 mg/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	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
5	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine	mists		Ŭ	
and hexamethylenediamine				
2	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Hydrocarbons, C9, aromatics < 0.1%	LD50 Dermal	Rabbit -	>2000 mg/kg	-
cumene		Male,		
		Female		
	LD50 Oral	Rat	8400 mg/kg	-

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

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae	<b>D</b> 1 1 1	0.5		
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	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**

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising
Phenol, styrenated	skin	Mouse	Sensitising

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# **SECTION 11: Toxicological information**

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ toxic	ity (single exposure)

# Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Hydrocarbons, C9, aromatics < 0.1% cumene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Quartz (SiO2) ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 1 Category 2 Category 2	inhalation - inhalation	- hearing organs lungs

# **Aspiration hazard**

Product/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 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 p	ysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking

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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	1	Not available.
Long term exposure		
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	:	May cause 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	1	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	1	Not available.

# **Other information**

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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh	Daphnia - <i>daphnia</i>	48 hours
	water	magna	
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Phenol, styrenated	Acute EC50 3.8 mg/l	Daphnia	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia</i>	48 hours
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	Acute LC50 >100 mg/l	magna (Water flea) Fish - Oncorhynchus mykiss (rainbow	96 hours
	Chronic NOEC 100 mg/l	trout) Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days
Hydrocarbons, C9, aromatics < 0.1% cumene	LC50 9.2 mg/l	Fish	96 hours

: There are no data available on the mixture itself.

# 12.2 Persistence and degradability

**Conclusion/Summary** 

Product/ingredient name	Test	Result	Dose	Inoculum
Phenol, styrenated	OECD 301F	7 % - Not readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-
Hydrocarbons, C9, aromatics < 0.1% cumene	-	78 % - 28 days	-	-

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

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

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene 2-methylpropan-1-ol ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	3.12 1 3.6 >6	7.4 to 18.5 - 79.43 -	Low Low Low High
Hydrocarbons, C9, aromatics < 0.1% cumene	3.7 to 4.5	10 to 2500	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**

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# SECTION 12: Ecological information

Not available.

# 12.7 Other adverse effects

No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

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

#### **13.1 Waste treatment methods**

## Product

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Disposal 2 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. : Yes.

## 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	

#### 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 Empty conta residues ma Do not cut, v	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly word dispersal of spilt material and runoff and contact with soil, waterways, 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			
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.
		English (GB) United Arab	Emirates 15/17

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# **Additional information**

ADR/RID Tunnel code IMDG IATA	ne environmentally hazardous substance mark is not required when transported in sizes 5 kg. D/E) ne marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. ne environmentally hazardous substance mark may appear if required by other transpor gulations.	
14.6 Special pree user	ons for : Transport within user's premises: always transport in closed containers the upright and secure. Ensure that persons transporting the product know what event of an accident or spillage.	
14.7 Transport in according to IMC	: Not applicable.	

# instruments

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation					
Annex XIV					
None of the components are listed.					
Substances of very high concern					
None of the components are listed.					
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles					
Other national and international regulations.					
Explosive precursors : Not applicable.					
Ozone depleting substances (1005/2009/EU) Not listed.					
<b>15.2 Chemical safety</b> : No Chemical Safety Assessment has been carried out. <b>assessment</b>					

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
-	1272/2008]
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
Full text of abbreviated H	
statements	

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	H226Flammable liquidH304May be fatal if swaH312Harmful in contactH315Causes skin irritatH317May cause an alleH318Causes serious etH319Causes serious etH332Harmful if inhaledH335May cause drowsH372Causes damage tH373May cause damageH411Toxic to aquatic lit	rallowed and enters airways. t with skin. tion. ergic skin reaction. eye damage. eye irritation. d. atory irritation. siness or dizziness. to organs through prolonged or repe ge to organs through prolonged or re ife with long lasting effects.	
Full text of classifications [CLP/GHS]	<ul> <li>H413 May cause long la EUH066 Repeated exposu</li> <li>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 1</li> </ul>	c life with long lasting effects. asting harmful effects to aquatic life. Ire may cause skin dryness or crack ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATI LONG-TERM (CHRONIC) AQUATI LONG-TERM (CHRONIC) AQUATI ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRR SERIOUS EYE DAMAGE/EYE IRR FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category 2 SKIN SENSITISATION - Category 2 SKIN SENSITISATION - Category 2 SERIOUS - Category 1 SPECIFIC TARGET ORGAN TOXIO EXPOSURE - Category 2	C HAZARD - Category 2 C HAZARD - Category 3 C HAZARD - Category 4 1 ITATION - Category 1 ITATION - Category 2 2 3 Category 2 I IB CITY - REPEATED
<u>History</u> Date of issue/ Date of revision	STOT SE 3	SPECIFIC TARGET ORGAN TOXIC EXPOSURE - Category 3	CITY - SINGLE
Date of previous issue Prepared by	: 16 February 2024 : EHS		
Version Disclaimer	: 1.03		

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