# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 4 April 2024

Version

: 1.01

Saudi Arabia



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE GREY
Product code	: 000001198068
Other means of identificati 00470593	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	f 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, 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

Signal word	: Warning
Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	: Take off contaminated clothing and wash it before reuse.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P261, P362 + P364, P501</li> </ul>
Hazardous ingredients	<ul> <li>bis-[4-(2,3-epoxipropoxi)phenyl]propane</li> <li>Epoxy Resin (700<mw<=1100)< li=""> <li>Phenol, methylstyrenated</li> <li>oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</li> </mw<=1100)<></li></ul>
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ients</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.

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

#### 3.2 Mixtures

: Mixture

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

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Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øís-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	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]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	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 (700 <mw &lt;=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 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]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

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# **SECTION 4: First aid measures**

4.1 Description of first aid n	neasures
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.

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>mptoms</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	ediate 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 <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

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# **SECTION 5: Firefighting measures**

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

# SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedu	ures	
For non-emergency personnel	:	No action shall be taken involving any pers Evacuate surrounding areas. Keep unnec entering. Do not touch or walk through spi flares, smoking or flames in hazard area. adequate ventilation. Wear appropriate re on appropriate personal protective equipm	essary and unprotected personnel fr ilt material. Shut off all ignition sourc Avoid breathing vapour or mist. Pro spirator when ventilation is inadequa	om ces. No vide
For emergency responders	:	If specialised clothing is required to deal w Section 8 on suitable and unsuitable mater emergency personnel".		
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff sewers. Inform the relevant authorities if t pollution (sewers, waterways, soil or air). V the environment if released in large quanti	he product has caused environment Water polluting material. May be ha	al
6.3 Methods and material for	со	ntainment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers explosion-proof equipment. Dilute with wa or if water-insoluble, absorb with an inert d disposal container. Dispose of via a licens	iter and mop up if water-soluble. Alter Iry material and place in an appropria	ernatively,
Large spill	:	Stop leak if without risk. Move containers explosion-proof equipment. Approach the sewers, water courses, basements or cont treatment plant or proceed as follows. Con combustible, absorbent material e.g. sand place in container for disposal according to waste disposal contractor. Contaminated hazard as the spilt product.	release from upwind. Prevent entry fined areas. Wash spillages into an ntain and collect spillage with non- , earth, vermiculite or diatomaceous o local regulations. Dispose of via a	into effluent earth and licensed
6.4 Reference to other sections	:	See Section 1 for emergency contact infor See Section 8 for information on appropria See Section 13 for additional waste treatm	te personal protective equipment.	
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# 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 othe 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	Exp	osure limit values	
<b>⋉</b> jlene	EU OEL (Europe, 1/2022).	[xylene, mixed isomers pure]	
	Absorbed through skin.		
	STEL: 442 mg/m <sup>3</sup> 15 minu	tes.	
	STEL: 100 ppm 15 minutes		
	TWA: 221 mg/m <sup>3</sup> 8 hours.		
	TWA: 50 ppm 8 hours.		
2-methylpropan-1-ol	ACGIH TLV (United States	, 1/2023).	
	TWA: 152 mg/m <sup>3</sup> 8 hours.		
	TWA: 50 ppm 8 hours.		
12-hydroxyoctadecanoic acid, reaction products	ACGIH TLV (United States	).	
with 1,3-benzenedimethanamine and	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle		
hexamethylenediamine	TWA: 3 mg/m³, (inhalable dust) Form: Respirable particle		
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SIGMASHIELD 880 BASE GRE Recommended monitoring procedures	<u>= Y</u> :	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 measured	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	1	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.

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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.

<u>Appearance</u>								
Physical state	:	Liquid.						
Colour	:	Grey.						
)dour	:	Aromatic. [Slight]						
Odour threshold	:	Not available.						
lelting point/freezing point	:	May start to solidify a based on data for the Weighted average: -	e following	ingredie				
nitial boiling point and poiling range	:	>37.78°C						
lammability	:	Not available.						
Ipper/lower flammability or xplosive limits	:	Greatest known rang	e: Lower:	1.7% U	Ipper: 10.9%	(2-methy	lpropan-1	-ol)
lash point	:	Closed cup: 37°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		2-methylpropan-1-ol		415	779			
Decomposition temperature		Stable under recomn	nended st	orage ar	nd handling c	onditions	(see Sec	tion 7).
н	:	Not applicable.		Ũ	0		·	,
iscosity	:	Kinematic (room terr	perature)	· >400 m	nm²/s			
-		Kinematic (40°C): >2		400 11				
-	:	Kinematic (40°C): >2		400 m				
Solubility(ies)	:	Kinematic (40°C): >2		+00 m				
Solubility(ies) Media cold water	:	· · ·						
Solubility(ies) Media cold water Partition coefficient: n-octanol/	:	Result Not soluble						
Solubility(ies) Media	:	Result       Not soluble       Not applicable.	21 mm²/s		ure at 20°C	Vap	our press	Sure at 50°C
Solubility(ies) Media cold water Partition coefficient: n-octanol/ vater		Result Not soluble	21 mm²/s	ır Press		Vap mm Hg	our press	sure at 50°C
Solubility(ies) Media cold water Partition coefficient: n-octanol/ vater		Result       Not soluble       Not applicable.	21 mm²/s	ır Press kPa	ure at 20°C	mm	1	1
Colubility(ies) Media Cold water Partition coefficient: n-octanol/ vater /apour pressure		Result         Not soluble         Not applicable.         Ingredient name	Vapou mm Hg <12.00102	ır Press kPa <1.6	ure at 20°C Method DIN EN 13016-2	mm Hg	kPa	Method
Andrew Constraints of the second seco	:	Result         Not soluble         Not applicable.         Ingredient name         Image: Comparison of the second seco	Vapou mm Hg <12.00102	ır Press kPa <1.6	ure at 20°C Method DIN EN 13016-2	mm Hg	kPa	Method
An analysis of the second seco	:	Result         Not soluble         Not applicable.         Ingredient name         Image: Comparison of the second seco	Vapou mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai	<b>Ir Press</b> <b>kPa</b> <1.6 ene) Wr r = 1) (b	ure at 20°C Method DIN EN 13016-2 eighted aver	mm Hg age: 0.73	kPa compared	Method
Solubility(ies)         Media         cold water         Partition coefficient: n-octanol/vater         Vapour pressure         Evaporation rate         Relative density         Vapour density	: : : :	Result         Not soluble         Not applicable.         Ingredient name         Image: Ingredient name         Image:	Vapou mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos	r = 1) (b ive, but f	ure at 20°C Method DIN EN 13016-2 eighted avera	mm Hg age: 0.73	kPa comparec ki)phenyl]į	Method
Solubility(ies)         Media         cold water         Partition coefficient: n-octanol/vater         Papour pressure         Evaporation rate         Relative density         Papour density         Explosive properties		Result         Not soluble         Not applicable.         Ingredient name         Impredient nampredient nampredient nampredient name	Vapou mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos ir is possi	r = 1) (b ive, but t ble.	ure at 20°C Method DIN EN 13016-2 eighted avera bis-[4-(2,3-ep the formatior	mm Hg age: 0.73	kPa comparec ki)phenyl]į	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ vater		Result         Not soluble         Not applicable.         Ingredient name         Impredient nampredientnampredientnampredient nampredientnampredientnampredient	Vapou mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos ir is possi	r = 1) (b ive, but t ble.	ure at 20°C Method DIN EN 13016-2 eighted avera bis-[4-(2,3-ep the formatior	mm Hg age: 0.73	kPa comparec ki)phenyl]į	d with butyl

#### 9.2 Other information

No additional information.

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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
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, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
s-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae				
	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.

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## **SECTION 11: Toxicological information**

Eyes

: There are no data available on the mixture itself.

- Respiratory
- **Sensitisation**
- : There are no data available on the mixture itself.

Product/ingredient name	Route of exposure	Species	Result
S-[4-(2,3-epoxipropoxi)phenyl]propane oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Mouse	Sensitising
	skin	Guinea pig	Sensitising

<b>Conclusion/Summary</b>	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
<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)

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

#### Specific target organ toxicity (repeated exposure)

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

#### **Aspiration hazard**

Product/ingredient name		Result	
xylene		ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health ef	fects		
Inhalation	: No known significant effe	: No known significant effects or critical hazards.	
Ingestion	: No known significant effe	: 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	physical, chemical and toxico	logical characteristics	
Inhalation	: No specific data.		
Ingestion	: No specific data.		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	(
2020/878	

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## **SECTION 11: Toxicological information**

Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate 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.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and hexamethylenediamine		Pseudokirchneriella subcapitata (microalgae)	
	English (GB)	Saudi Arabia	11/15

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SECTION 12: Ecological information				
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours	
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days	

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

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi)phenyl]propane xylene	-	-	Not readily Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	-	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	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.

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## **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

# ProductMethods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal<br/>of this product, solutions and any by-products should at all times comply with the<br/>requirements of environmental protection and waste disposal legislation and any<br/>regional local authority requirements. Dispose of surplus and non-recyclable products<br/>via a licensed waste disposal contractor. Waste should not be disposed of untreated to<br/>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

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 by 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, newers.	

# **SECTION 14: Transport information**

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

#### **Additional information**

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

English (GB)	Saudi
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Arabia

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SECTION 14: Transport informa	tion	
IATA : None identified.		
user upright and s	<b>vithin user's premises:</b> always transport in closed secure. Ensure that persons transporting the produ accident or spillage.	
14.7 Transport in bulk : Not applicab according to IMO instruments	le.	
SECTION 15: Regulatory inform	ation	
15.1 Safety, health and environmental regula	ations/legislation specific for the substance or	mixture
EU Regulation (EC) No. 1907/2006 (REACH)	1	
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 applicab on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	le.	
Other national and international regulations	<u>S.</u>	
Explosive precursors : Not applicable	e.	
Ozone depleting substances (1005/2009/El Not listed.	<u>U)</u>	
<b>15.2 Chemical safety</b> : No Chemical <b>assessment</b>	Safety Assessment has been carried out.	

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

		English (GB)	Saudi Arabia	14/15
	H411	Toxic to aquatic life with long lasting	effects.	
	H373	May cause damage to organs throug	h prolonged or repeated ex	xposure.
	H336	May cause drowsiness or dizziness.		
	H335	May cause respiratory irritation.		
	H332	Harmful if inhaled.		
	H319	Causes serious eye irritation.		
	H318	Causes serious eye damage.		
	H317	May cause an allergic skin reaction.		
	H315	Causes skin irritation.		
	H312	Harmful in contact with skin.		
statements	H304	May be fatal if swallowed and enters	airways	
Full text of abbreviated H	: H226	Flammable liquid and vapour.		
		REACH Registration Number		
		Predicted No Effect Concentration		
		atement = CLP-specific Hazard statem	ent	
	1272/20	Derived No Effect Level		
acronyms		Classification, Labelling and Packaging	Regulation [Regulation (EG	J) NO.
Abbreviations and		Acute Toxicity Estimate		

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<b>SECTION 16: Other</b>	information	
		uatic life with long lasting effects. ng lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 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 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
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Prepared by	: EHS	
Version	: 1.01	
Disclaimer		

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