# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 16 July 2021

Version

: 1



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE RAL 5015
Product code	: 00445416
Product type	: Liquid.
Other means of identificati	on
Not available.	
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	the safety data sheet
Sigma Paint Saudi Arabia Lto	I.
PO Box 7509 Dammam 31472	
Saudi Arabia	
Tel: 00966 138 47 31 00	
Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone	: 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 Muta. 2, H341 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

number

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GIGMASHIELD 880 BASE RA	_ 5015		
SECTION 2: Hazards	identificati	on	
Hazard pictograms			
Signal word	: Warning		
Hazard statements	Causes skin i May cause ar Causes serio Suspected of	quid and vapour. irritation. n allergic skin reaction. ous eye irritation. f causing genetic defects. quatic life with long lasting effects.	
Precautionary statements			
Prevention	protective glo hot surfaces,	e until all safety precautions have been read and oves, protective clothing and eye or face protectio , sparks, open flames and other ignition sources. e environment. Avoid breathing vapour.	n. Keep away from hea
Response	: IF exposed of	or concerned: Get medical advice or attention.	
Storage	: Not applicable	le.	
Disposal	: Not applicable	le.	
Hazardous ingredients	weight ≤ 700) Phenol, meth Epoxy Resin 2,3-epoxypro		umber average molecul
Supplemental label elements	: Not applicable	le.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable	le.	
Special packaging requiren	<u>nents</u>		
Containers to be fitted with child-resistant fastenings	: Not applicable	le.	
Tactile warning of danger	: Not applicable	le.	
.3 Other hazards			
Product meets the criteria for PBT or vPvB	: This mixture	does not contain any substances that are assess	ed to be a PBT or a vPv
Other hazards which do not result in classification	: Prolonged or	repeated contact may dry skin and cause irritatio	on.

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

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<b>3.</b> Z	Mixtures

Code

 Mixture

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥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	[1] [2]
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]
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>≥1.0 - ≤5.0</td><td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317</td><td>[1]</td></mw<=1100)<>	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[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]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥0.10 - ≤2.1	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
1,3-bis[12-hydroxy-octadecamide- N-methylene]-benzene	REACH #: 01-2119962189-26 EC: 423-300-7 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[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.

<u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

#### SUB codes represent substances without registered CAS Numbers.

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<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 reactior
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	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

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

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.
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Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
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<b>SECTION 5: Firefigh</b>	ing measures
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, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	. co	ntainment 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.

### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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

See Section 1.2 for Identified uses.

Recommendations: Not available.Industrial sector specific: Not available.solutions: Not available.

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

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

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values				
xylene	<b>EU OEL (Europe, 10/2019). Absorbed through skin.</b> STEL: 442 mg/m <sup>3</sup> 15 minutes. 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, 3/2020). TWA: 152 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.				
ethylbenzene	EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 884 mg/m³ 15 minutes.				
	English (GB) United Arab Emirates	6/15			

SIGMASHIELD 880 BASE RAL 5015					
<b>SECTION 8: Exposure</b>	e controls/pe	rsonal protection	on		
1,3-bis[12-hydroxy-octadecam benzene	nide-N-methylene]-	STEL: 200 ppm 15 TWA: 442 mg/m <sup>3</sup> 8 TWA: 100 ppm 8 ho <b>ACGIH TLV (United</b> TWA: 3 mg/m <sup>3</sup> , (Re	hours. ours. <b>States).</b>		
Recommended monitoring procedures	atmosphere or b the ventilation or protective equip following: Europ assessment of e values and mea atmospheres - C exposure to che atmospheres - C measurement of	iological monitoring ma other control measure ment. Reference shou bean Standard EN 689 exposure by inhalation t surement strategy) Eu Guide for the applicatior mical and biological ag General requirements for chemical agents) Ref	exposure limits, personal, workplace ay be required to determine the effective is and/or the necessity to use respirato ld be made to monitoring standards, su (Workplace atmospheres - Guidance for o chemical agents for comparison with ropean Standard EN 14042 (Workplace in and use of procedures for the assess ents) European Standard EN 482 (Wo or the performance of procedures for the erence to national guidance document dous substances will also be required.	ry uch as the for the limit e sment of orkplace ne	
8.2 Exposure controls					
Appropriate engineering controls	other engineerin recommended o	g controls to keep work r statutory limits. The oncentrations below ar	e process enclosures, local exhaust ve ker exposure to airborne contaminants engineering controls also need to keep ny lower explosive limits. Use explosio	below any gas,	
Individual protection measur	<u>'es</u>				
Hygiene measures	eating, smoking Appropriate tech Contaminated w contaminated clo	and using the lavatory iniques should be used ork clothing should not	ighly after handling chemical products, and at the end of the working period. to remove potentially contaminated cl be allowed out of the workplace. Was Ensure that eyewash stations and safe cation.	othing. sh	
Eye/face protection Skin protection	: Chemical splash	n goggles.			
Hand protection	worn at all times necessary. Con during use that t noted that the tir glove manufactu protection time of frequently repea (breakthrough tin When only brief (breakthrough tin The user must of product is the m	when handling chemic sidering the parameter he gloves are still retain ne to breakthrough for urers. In the case of mi of the gloves cannot be ted contact may occur, me greater than 480 mi contact is expected, a me greater than 30 min heck that the final choi	complying with an approved standard s cal products if a risk assessment indical s specified by the glove manufacturer, ning their protective properties. It shou any glove material may be different for xtures, consisting of several substance accurately estimated. When prolonge a glove with a protection class of 6 inutes according to EN 374) is recommended glove with a protection class of 2 or hig butes according to EN 374) is recommended accurately estimated for handlin the sinto account the particular condition ent.	ates this is check ald be different es, the ed or nended. gher ended. g this	
Gloves	: butyl rubber				
Body protection	performed and t handling this pro static protective should include a 1149 for further	he risks involved and s oduct. When there is a clothing. For the great nti-static overalls, boots information on material	body should be selected based on the t hould be approved by a specialist befor risk of ignition from static electricity, w est protection from static discharges, of s and gloves. Refer to European Stand and design requirements and test me	re ear anti- clothing dard EN thods.	
Other skin protection	based on the tas		I skin protection measures should be s I the risks involved and should be appr		
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<b>SECTION 8: Exposu</b>	ire controls/personal protection	
Respiratory protection	: Respirator selection must be based on known or anticipate hazards of the product and the safe working limits of the se are exposed to concentrations above the exposure limit, th certified respirators. Use a properly fitted, air-purifying or a with an approved standard if a risk assessment indicates the	elected respirator. If workers ey must use appropriate, air-fed respirator complying
Environmental exposure controls	: Emissions from ventilation or work process equipment sho they comply with the requirements of environmental protec cases, fume scrubbers, filters or engineering modifications will be necessary to reduce emissions to acceptable levels	tion legislation. In some to the process equipment
<b>SECTION 9: Physica</b>	al and chemical properties	

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

Physical state		Liquid.							
Colour		Not available.							
	1								
Odour Odour threehold	÷	Characteristic. Not available.							
Odour threshold	-								
bH		insoluble in water.						<del></del>	
Melting point/freezing point	:	May start to solidify a data for the following -69.07°C (-92.3°F)							
nitial boiling point and boiling range	:	>37.78°C							
Flash point	:	Closed cup: 30°C							
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (etl	nylbenzer	ne) Wei	ghted a	average	e: 0.74co	mpared wit
Flammability (solid, gas)	:	liquid							
Jpper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.7% U	pper: 10	.9% (2-	-methyl	propan-1	-ol)
Vapour pressure	:	:	Vapour Pressure at 20°C V			Vapo	/apour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Metho		mm Hg	kPa	Method
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2				
/apour density	:	Highest known value	: 3.7 (Air	= 1) (xyl	ene). V	/eighte	d avera	age: 3.41	(Air = 1)
Relative density	:	1.29							
verative density		Insoluble in the follow	Insoluble in the following materials: cold water.						
•	н.		ving mate						
Solubility(ies) Partition coefficient: n-octanol/			ing mate						
Solubility(ies) Partition coefficient: n-octanol/ water				°C		°F	N	lethod	
Solubility(ies) Partition coefficient: n-octanol/ water	:	Not applicable.				° <b>F</b> 28.8	N	lethod	
Solubility(ies) Partition coefficient: n-octanol/ vater Auto-ignition temperature	:	Not applicable. Ingredient name 2,3-epoxypropyl neodeca	noate	° <b>C</b> 276	5	28.8			tion 7).
Solubility(ies) Partition coefficient: n-octanol/ vater Auto-ignition temperature Decomposition temperature	:	Not applicable.	noate nended st	° <b>C</b> 276	5	28.8			tion 7).
Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties		Not applicable. Ingredient name 2,3-epoxypropyl neodeca Stable under recomn	noate nended st 1 mm²/s	°C 276 orage an	5 d handli	28.8			tion 7).

### 9.2 Other information

# **SECTION 9: Physical and chemical properties**

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 halogenated compounds metal oxide/oxides	

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin				
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/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	-
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	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists			
octadecanoic acid and				
1,3-phenylenedimethanamine				

Conclusion/Summary : There

: There are no data available on the mixture itself.

#### Acute toxicity estimates

Route	ATE value		
Dermal	28181.45 mg/kg		
Inhalation (vapours)	164.04 mg/l		

Irritation/Corrosion

### **SECTION 11: Toxicological information**

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Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Skin - Moderate irritant	Rabbit	-	-	-
<b>c c</b> <i>i</i>	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

**Conclusion/Summary** 

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

: There are no data available on the mixture itself.

Eyes Respiratory

Code

: There are no data available on the mixture itself.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	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.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	city (cingle cynecure)

#### Specific target organ toxicity (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
ethylbenzene	Category 2	-	hearing organs

#### **Aspiration hazard**

Product	/ingredient name	Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.	
Potential acute health effe Inhalation	<u>cts</u> : No known significant effec	ts or critical hazards.

English (GB)

**United Arab Emirates** 

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SECTION 11: Toxicol	gical information	
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 ph	sical, chemical and toxicological characteristics	
Inhalation	No specific data.	
Ingestion	No specific data.	
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	ts as well as chronic effects from short and long-term exposure	
Short term exposure		
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	<u>ts</u>	
Not available.		
Conclusion/Summary	Not available.	
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking ar dermatitis. Once sensitized, a severe allergic reaction may occur when subseque exposed to very low levels.</li> </ul>	
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	Suspected of causing genetic defects.	
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.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Chronic NOEC 0.3 mg/l Acute EC50 1100 mg/l	Daphnia	21 days
Acute EC50 1100 mg/l	Danhaia	
	Daphnia	48 hours
Acute EC50 3.5 mg/l	Algae	96 hours
Acute EC50 4.8 mg/l	Daphnia - Daphnia	48 hours
-	magna	
Acute LC50 9.6 mg/l	Fish - Oncorhynchus	96 hours
_	mykiss	
Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
auliah (OD) - United Anak	- Fusington	11/15
	Acute EC50 4.8 mg/l Acute LC50 9.6 mg/l Acute EC50 1.8 mg/l Fresh	Acute EC50 4.8 mg/l Acute LC50 9.6 mg/l Acute EC50 1.8 mg/l Fresh Daphnia - Daphnia magna Fish - Oncorhynchus mykiss Daphnia

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	water Acute LC50 150 to 200 mg/l Fresh water Chronic NOEC 1 mg/l Fresh	Fish Daphnia -	96 hours -
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	water Acute LC50 >100 mg/l	Ceriodaphnia dubia Fish	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)		5 % - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	-	-	Not readily
xylene	-	-	Readily
2,3-epoxypropyl neodecanoate ethylbenzene	-	-	Not readily Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.64 to 3.78	31	low
xylene Phenol, methylstyrenated 2-methylpropan-1-ol 2,3-epoxypropyl neodecanoate ethylbenzene	3.12 3.627 1 4.4 3.6	7.4 to 18.5 - - - 79.43	low low low high low

### 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 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**

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

#### European waste catalogue (EWC)

Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Packaging	· · · · · · · · · · · · · · · · · · ·		
Methods of disposal	<ul> <li>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.</li> </ul>		
Type of packaging	European waste catalogue (EWC)		
Container	15 01 06 mixed packaging		
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	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		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.

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14.6 Special precautions for user	: <b>Transport within user's premises:</b> 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.			
SECTION 15: Regulat	ory information			
15.1 Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture			
EU Regulation (EC) No. 1907	<u>2006 (REACH)</u>			
Annex XIV - List of substan	ces subject to authorisation			
Annex XIV				
None of the components are	listed.			
Substances of very high co	<u>ncern</u>			
None of the components are	listed.			
	: Not applicable.			
on the manufacture,				
placing on the market and use of certain				
dangerous substances,				
mixtures and articles				
Other national and internation	nal regulations.			
Ozone depleting substances	<u>(1005/2009/EU)</u>			
Not listed.				
15.2 Chemical safety assessment	No Chemical Safety Assessment has been carried out.			

# **SECTION 16: Other information**

		English (GB) United Arab Emirates 14/1			
	H413	May cause long lasting harmful effects to aquatic life.			
	H411 H412	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.			
	H373	May cause damage to organs through prolonged or repeated exposure.			
	H341	Suspected of causing genetic defects.			
	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	H226 H304	Flammable liquid and vapour. May be fatal if swallowed and enters airways.			
Full text of abbreviated H statements	: H225	Highly flammable liquid and vapour.			
Full text of obbrovieted H		C C			
	= =	REACH Registration Number			
		atement = CLP-specific Hazard statement Predicted No Effect Concentration			
		Derived No Effect Level			
	1272/20	•			
acronyms		CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.			
Abbreviations and	: ATE = A	Acute Toxicity Estimate			
Indicates information that	nao onangoa				

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Full text of classifications       : Acute Tox. 4         [CLP/GHS]       : Acute Tox. 4         Aquatic Chronic 2       Aquatic Chronic 3         Aquatic Chronic 4       Asp. Tox. 1         Eye Dam. 1       Eye Irrit. 2         Flam. Liq. 2       Flam. Liq. 3         Muta. 2       Skin Irrit. 2         Skin Sens. 1       STOT RE 2         STOT SE 3       : Acute Tox. 4		ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 2 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> Date of issue/ Date of revision	: 16 July 2021					
Date of previous issue	: No previous validation					
Prepared by	: EHS					
Version	: 1					
Dicoloimor						

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