Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

SAFETY DATA SHEET

Date of issue/Date of revision

: 19 July 2021

Version : 1.01



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE OFFWHITE
Product code	: 00445413
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	l.
PO Box 7509 Dammam 31472	
Saudi Arabia	
Tel: 00966 138 47 31 00	
Fax: 00966 138 47 17 34	
e-mail address of person	: ndpic@sfda.gov.sa
responsible for this SDS	
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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IGMASHIELD 880 BASE OFF	
SECTION 2: Hazards	Jentification
Hazard pictograms	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from h hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	IF exposed or concerned: Get medical advice or attention.
Storage	Not applicable.
Disposal	Not applicable.
Hazardous ingredients	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molec weight ≤ 700) Epoxy Resin (700 <mw<=1100) Phenol, methylstyrenated 2,3-epoxypropyl neodecanoate 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene</mw<=1100)
Supplemental label elements	Not applicable.
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>its</u>
Containers to be fitted with child-resistant fastenings	Not applicable.
Tactile warning of danger	Not applicable.
.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 v
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

: Mixture

3.2 Mixture	2
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Code

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]
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]
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]
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 See Section 16 for the full text of	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.

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SECTION 4: First ai	d measures
4.1 Description of first aid r	neasures
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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 sympto	ms and effects, both acute and delayed
Potential acute health effe	ects
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/sym	<u>ptoms</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.
4.2 Indication of any immediate	lists medical attention and anapial treatment readed
	diate 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.
SECTION 5: Firefight	nting measures
5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.

media	
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

substance or mixture 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 lastin effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	Hazards from the substance or mixture
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SECTION 5: Firefight	ng 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	1	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.

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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	EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.		
2-methylpropan-1-ol	ACGIH TLV (United States, 3/2020). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.		
ethylbenzene	EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes.		
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SIGMASHIELD 880 BASE OFFWHITE SECTION 8: Exposure controls/personal protection STEL: 200 ppm 15 minutes. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. 1,3-bis[12-hydroxy-octadecamide-N-methylene]-ACGIH TLV (United States). benzene TWA: 3 mg/m³, (Respirable fraction) If this product contains ingredients with exposure limits, personal, workplace **Recommended monitoring** а. atmosphere or biological monitoring may be required to determine the effectiveness of procedures the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or Appropriate engineering other engineering controls to keep worker exposure to airborne contaminants below any controls 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 measures : Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** 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 evewash stations and safety showers are close to the workstation location. **Eye/face protection** Chemical splash goggles. **Skin protection** Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. **Gloves** : butyl rubber : Personal protective equipment for the body should be selected based on the task being **Body protection** performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. English (GB) United Arab Emirates 7/15

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SECTION	8: Exposi	ire controls/personal protection
Respiratory	/ protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmen controls	ntal exposure	: 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: Physic	al 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

<u>Appearance</u>								
Physical state	1	Liquid.						
Colour	1	Not available.						
Odour	:	Characteristic.						
Odour threshold	1	Not available.	Not available.					
рН	1	insoluble in water.						
Melting point/freezing point	:	May start to solidify a data for the following -72.05°C (-97.7°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flash point	:	Closed cup: 30°C						
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (etl	nylbenze	ne) Weigh	ted avera	age: 0.74c	ompared with
Flammability (solid, gas)	:	liquid						
Upper/lower flammability or explosive limits	1	Greatest known rang	e: Lower:	1.7% U	pper: 10.99	% (2-met	hylpropan-	1-ol)
Vapour pressure	:		Vapour Pressure at 20°C Vapour pressure at 50°C					sure at 50°C
		In any other with the second						
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	mm Hg	kPa <1.6	Method DIN EN 13016-2		kPa	Method
Vapour density	:		<12	<1.6	DIN EN 13016-2	Hg		
Vapour density Relative density		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2	Hg		
	:	2-methylpropan-1-ol Highest known value	<12 : 3.7 (Air	<1.6 = 1) (xy	DIN EN 13016-2 Iene). Wei	Hg		
Relative density	:	2-methylpropan-1-ol Highest known value 1.36 Insoluble in the follov	<12 : 3.7 (Air	<1.6 = 1) (xy	DIN EN 13016-2 Iene). Wei	Hg		
Relative density Solubility(ies) Partition coefficient: n-octanol/	:	2-methylpropan-1-ol Highest known value 1.36 Insoluble in the follov	<12 : 3.7 (Air	<1.6 = 1) (xy	DIN EN 13016-2 Iene). Wei	Hg		
Relative density Solubility(ies) Partition coefficient: n-octanol/ water	:	2-methylpropan-1-ol Highest known value 1.36 Insoluble in the follow Not applicable.	<12 : 3.7 (Air <i>v</i> ing mate	<1.6 = 1) (xy rials: col	DIN EN 13016-2 dene). Wei d water.	Hg ighted av	erage: 3.3	
Relative density Solubility(ies) Partition coefficient: n-octanol/ water		2-methylpropan-1-ol Highest known value 1.36 Insoluble in the follow Not applicable.	<12 : 3.7 (Air ving mate	<1.6 = 1) (xy rials: col 276	DIN EN 13016-2 Iene). Wei d water.	Hg ighted av	erage: 3.3	7 (Air = 1)
Relative density Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature		2-methylpropan-1-ol Highest known value 1.36 Insoluble in the follow Not applicable. Ingredient name 2,3-epoxypropyl neodeca	<12 : 3.7 (Air ving mate	<1.6 = 1) (xy rials: col 276	DIN EN 13016-2 Iene). Wei d water.	Hg ighted av	erage: 3.3	7 (Air = 1)
Relative density Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature Decomposition temperature		2-methylpropan-1-ol Highest known value 1.36 Insoluble in the follow Not applicable. Ingredient name 2,3-epoxypropyl neodeca Stable under recomm	<12 : 3.7 (Air ving mate noate nended st 1 mm ² /s	<1.6 = 1) (xy rials: col 276 corage ar	DIN EN 13016-2 dene). Wei d water. • F 528.4 nd handling	Hg ighted av	erage: 3.3	7 (Air = 1)
Relative density Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature Decomposition temperature Viscosity		2-methylpropan-1-ol Highest known value 1.36 Insoluble in the follow Not applicable. Ingredient name 2,3-epoxypropyl neodeca Stable under recomm Kinematic (40°C): >2	<pre><12 <12 i. 3.7 (Air ving mate noate nended st 1 mm²/s sent an e</pre>	<1.6 = 1) (xy rials: col 276 zorage ar xplosion	DIN EN 13016-2 Ilene). Wei d water. •F 528.8 nd handling hazard.	Hg ighted av	erage: 3.3	7 (Air = 1)

9.2 Other information

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- (epichlorhydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
(epicilioniyunin), epoxy resin	LD50 Oral	Rat	>2 g/kg	
xulono.	LD50 Dermal	Rabbit	1.7 g/kg	-
xylene				-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>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	-
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
•		i \al	2 0.00 mg/l	+ nours
12-hydroxyoctadecanoic acid and	mists			
octadecanoic acid and				
1,3-phenylenedimethanamine				

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

Acute toxicity estimates

Route	ATE value
Dermal	29410.37 mg/kg
Inhalation (vapours)	171.17 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	-	-	-
с с <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	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
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
	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

10/15

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GMASHIELD 880 BASE OFF	
SECTION 11: Toxicol	ogical 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	vsical, 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	cts 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	
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	: 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

onforms to Regulation (EC) No. 1907/2006 (REACH), Annex II						
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Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	water Acute LC50 150 to 200 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water Acute LC50 >100 mg/l	Fish Daphnia - Ceriodaphnia dubia Fish	96 hours - 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	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	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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user upright and s	vithin user's premises: always transport in closed con secure. Ensure that persons transporting the product kn accident or spillage.	
14.7 Transport in bulk : Not applicate according to IMO instruments	ble.	
SECTION 15: Regulatory inform	nation	
15.1 Safety, health and environmental regula	ations/legislation specific for the substance or mix	ture
EU Regulation (EC) No. 1907/2006 (REACH	D .	
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	ble.	
on the manufacture,		
placing on the market and use of certain		
dangerous substances,		
mixtures and articles		
Other national and international regulation	<u>IS.</u>	
Ozone depleting substances (1005/2009/E	<u>(U)</u>	
Not listed.		
15.2 Chemical safety : No Chemical assessment	I Safety Assessment has been carried out.	

SECTION 16: Other information

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	H413	May cause long lasting harmful effects to aquatic life.	
	H412	Harmful to aquatic life with long lasting effects.	
	H411	Toxic 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 unnage.	
	H318	Causes serious eye damage.	
	H315 H317	May cause an allergic skin reaction.	
	H312 H315	Harmful in contact with skin. Causes skin irritation.	
	H304	May be fatal if swallowed and enters airways.	
statements	H226	Flammable liquid and vapour.	
Full text of abbreviated H	: H225	Highly flammable liquid and vapour.	
		REACH Registration Number	
		Predicted No Effect Concentration	
		atement = CLP-specific Hazard statement	
		Derived No Effect Level	
-	1272/20	•	
acronyms	CLP = 0	Classification, Labelling and Packaging Regulation [Regulation (EC) No.	
Abbreviations and	: ATE = A	Acute Toxicity Estimate	
Indicates information that	has changed	I from previously issued version.	

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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. 2 Flam. Liq. 3 Muta. 2 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 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	: 19 July 2021	
Date of previous issue Prepared by	: 15 July 2021 : EHS	
Version	: 1.01	

Disclaimer

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