SAFETY DATA SHEET

Date of issue/Date of revision

: 28 June 2021

Version : 3.02



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE RAL 7022
Product code	: 00387931
Product type	: Liquid.
Other means of identification	on la contraction de la cont
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 Ltd PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa

1.4 Emergency telephone : 00966 138473100 extn 1001 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 STOT RE 2, H373 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. 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 hea hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour.
Response	: Get medical advice/attention if you feel unwell.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: epoxy resin (MW ≤ 700) Epoxy Resin (700 <mw<=1100) Quartz (SiO2) Phenol, methylstyrenated 2,3-epoxypropyl neodecanoate</mw<=1100)
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>nents</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 vPv γ
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥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]
Quartz (SiO2)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	[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]
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]
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	[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.

SECTION 4: First aid measures

4.1 Description of first aid measures		
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. 	
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.	
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.	
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting. 	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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.
.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.

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special bozarda ariaina f	rom the substance or mixture

5.2 Special hazards arising 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.

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
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SECTION 5: Firefight	
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 Europear 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 containment and cleaning up

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

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 breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any ncompatibilities	: 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)	
Can Caption 1 0 for Identifia	

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			/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.				
Quartz (SiO2)	ACGIH TLV (United States, 3/2020).				
, , , , , , , , , , , , , , , , , , ,	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable				
2-methylpropan-1-ol	ACGIH TLV (United States, 3/2020).				
	TWA: 152 mg/m ³ 8 hours.				
	TWA: 50 ppm 8 hours.				
	English (GB) United Arab Emirates	6/15			

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SECTION 8: Exposu	e controls/personal protection				
12-hydroxyoctadecanoic acid with 1,3-benzenedimethanan hexamethylenediamine					
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of 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					
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 measu					
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	: 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.				
Respiratory protection	:				
	English (CP) United Arch Emiretes 7/4F				
	English (GB)United Arab Emirates7/15				

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SIGMASHIELD 880 BASE RAL 7	022						
SECTION 8: Exposure	controls/persona	al prote	ection				
	Respirator selection mu hazards of the product a are exposed to concent certified respirators. Us with an approved standa	st be base and the sa rations abo e a prope	ed on kn fe worki ove the fly fitted	own or anticipa ng limits of the exposure limit, , air-purifying c	selected they mu or air-fed	l respirate st use ap respirato	or. If workers propriate, r complying
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.						
SECTION 9: Physical a	and chemical pro	perties					
The conditions of measurement of	of all properties are at star	ndard tem	perature	and pressure	unless o	therwise	indicated.
9.1 Information on basic physic	cal and chemical proper	ties					
<u>Appearance</u>							
Physical state	: Liquid.						
Colour	: Grey.						
Odour	: Aromatic. [Slight]						
Odour threshold	: Not available.						
рН	insoluble in water.						
Melting point/freezing point	: May start to solidify data for the following -68.36°C (-91°F)						
Initial boiling point and boiling range	: >37.78°C						
Flash point	: Closed cup: 37°C						
Evaporation rate	: Highest known value acetate	e: 0.77 (xy	lene) W	l∕eighted avera	ge: 0.73	compared	d with butyl
Flammability (solid, gas)	: liquid						
Upper/lower flammability or explosive limits	: Greatest known ran	ge: Lower	1.7% l	Upper: 10.9%	(2-methy	lpropan-1	I-ol)
Vapour pressure	:	Vapor	ur Press	sure at 20°C	Vapo	our press	sure at 50°C
	Ingredient name	mm Hg	1	Method	mm Hg	kPa	Method
	2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2			
Vapour density Relative density	: Highest known valu : 1∕.65	e: 3.7 (Air	= 1) (x		ted avera	age: 3.37	(Air = 1)

Solubility(ies)

Partition coefficient: n-octanol/ : Not applicable. water

Decomposition temperature	1	Stable under recommended s	torage and	handling cond	itions (see Section 7).
Viscosity	:	Kinematic (room temperature Kinematic (40°C): >21 mm ² /s): >400 mm	²/s	
Viscosity	1	> 100 s (ISO 6mm)			
Explosive properties	1	Product does not present an e	explosion h	azard.	
Oxidising properties		Product does not present an o	yidizina ha	zard	

: Insoluble in the following materials: cold water.

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SECTION 9: Physical and chemical properties

9.2 Other information

Code

No additional information.

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SECTION 10: Stabilit	y 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
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/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>>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	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine	mists			
and hexamethylenediamine				
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

Acute toxicity estimates

Route	ATE value		
Inhalation (vapours)	31747.15 mg/kg 205.42 mg/l 273.43 mg/l		

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient n	ame	Result	Species	Score	Exposure	Observation
epoxy resin (MW ≤ 700)	Skin - M	ild irritant	Rabbit	-	-	-
	Eyes - N	1ild irritant	Rabbit	-	-	-
xylene	Skin - M	oderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	· · · · ·					
Skin	: There are no data a	vailable on the r	nixture itself			

There are no data available on the mixture itself.

There are no data available on the mixture itself. 2

Respiratory

Eyes

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 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	<u>city (single exposure)</u>

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	- 55	inhalation inhalation	- lungs

Aspiration hazard

Product/ingredient name	Result	
xylene	ASPIRATION HAZARD - Category 1	

Information on likely

: Not available.

routes of exposure

Potential acute health eff	ects	
Inhalation	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	:	Causes serious eye irritation.
Symptoms related to the	physi	ical, chemical and toxicological characteristics

English (GB) **United Arab Emirates**

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SECTION 11: Toxico	ogical information	
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	
	<u>cts as well as chronic effects from short and long-term exposure</u>	
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 eff	<u>cts</u>	
Not available.		
Conclusion/Summary	: Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Prole repeated contact can defat the skin and lead to irritation, cracking and/or derr Once sensitized, a severe allergic reaction may occur when subsequently exp very low levels.	matitis.
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

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW \leq 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia	48 hours
	English (GB) United Aral	o Emirates	11/15

Conforms to Regulation (EC) No. 1907/2006 (REAC)	H), Annex II		
Code : 00387931	Date of issue/Date of re	vision : 28 Ju	ne 2021
SIGMASHIELD 880 BASE RAL 7022			
SECTION 12: Ecological information			
	Acute LC50 >100 mg/l	magna (Water flea) Fish - Oncorhynchus mykiss (rainbow	96 hours
	Chronic NOEC 100 mg/l	trout) Algae - Pseudokirchneriella	72 hours
	Chronic NOEC ≥50 mg/l	subcapitata 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 301F OECD 301D Ready Biodegradability - Closed Bottle Test	5 % - 28 days 9 % - Not readily - 29 days	-	-

Conclusion/Summary :	There are no data available on the mixture itself.
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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
epoxy resin (MW ≤ 700) xylene	-	-	Not readily Readily
2,3-epoxypropyl neodecanoate	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	3	31	low
xylene	3.12	7.4 to 18.5	low
Phenol, methylstyrenated	3.627	-	low
2-methylpropan-1-ol	1	-	low
2,3-epoxypropyl neodecanoate	4.4	-	high
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	high

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: 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.

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

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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	ΙΑΤΑ
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	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 IATA	 This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. None identified.

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SECTION 14: Transpo	ort information			
14.6 Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
14.7 Transport in bulk according to IMO instruments	: Not applicable.			
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 c	<u>oncern</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 substance	<u>s (1005/2009/EU)</u>			
Not listed.				
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.			

SECTION 16: Other information

	 H317 May cause an allergic skin ref H318 Causes serious eye damage H319 Causes serious eye irritation H32 Harmful if inhaled. H335 May cause respiratory irritation H336 May cause drowsiness or diz H341 Suspected of causing genetic H372 Causes damage to organs the 	e. on. zziness. ic defects. nrough prolonged or repeated exposure. is through prolonged or repeated exposure. g lasting effects.			
	 H336 May cause drowsiness or diz H341 Suspected of causing genetic H372 Causes damage to organs th H373 May cause damage to organ H411 Toxic to aquatic life with long 	zziness. ic defects. nrough prolonged or repeated exposure. is through prolonged or repeated exposure. g lasting effects.			
Full text of abbreviated H statements	H318 Causes serious eye damageH319 Causes serious eye irritationH332 Harmful if inhaled.	d enters airways. eaction. e.			
Abbreviations and acronyms	1272/2008] DNEL = Derived No Effect Level	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 008] = Derived No Effect Level atement = CLP-specific Hazard statement = Predicted No Effect Concentration			

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SECTION 16: Other	information				
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 Muta. 2 Skin Irrit. 2 Skin Sens. 1 STOT RE 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC H LONG-TERM (CHRONIC) AQUATIC H LONG-TERM (CHRONIC) AQUATIC H ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITA SERIOUS EYE DAMAGE/EYE IRRITA FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 3 GERM CELL MUTAGENICITY - Category 1 SKIN CORROSION/IRRITATION - Ca SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICIT EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICIT EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICIT EXPOSURE - Category 3	HAZARD - Category 3 HAZARD - Category 4 ATION - Category 1 ATION - Category 2 gory 2 tegory 2 TY - REPEATED		
<u>History</u>					
Date of issue/ Date of revision	: 28 June 2021				
Date of previous issue	: 28 June 2021				
Prepared by	: EHS				
Version	: 3.02				
<u>Disclaimer</u>					

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