# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 4 January 2023

Version : 3.04



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE RAL 7039
Product code	: 00388037
Product type	: Liquid.
Other means of identification	n
Not available.	
1.2 Relevant identified uses o	f 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 t	he 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	: ndpic@sfda.gov.sa
responsible for this SDS	

# 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

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
Code : 00388037	Date of issue/Date of revision : 4 January 2023
SIGMASHIELD 880 BASE RA	7039
<b>SECTION 2: Hazards</b>	identification
Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>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.</li> </ul>
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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	: Get medical advice/attention if you feel unwell.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	<ul> <li>poxy resin (MW ≤ 700)</li> <li>Epoxy Resin (700<mw<=1100)< li=""> <li>Phenol, methylstyrenated</li> <li>2,3-epoxypropyl neodecanoate</li> <li>crystalline silica, respirable powder (&lt;10 microns)</li> </mw<=1100)<></li></ul>
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	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	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw &lt;=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
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]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	-	[1] [2]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
I.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	<ul> <li>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.</li> </ul>
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.
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### 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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United Arab Emirates

Conforms to Regulation (EC)Code: 00388037	Date of issue/Date of revision         : 4 January 2023			
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<b>SECTION 5: Firefight</b>	ing measures			
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides			
5.3 Advice for firefighters				
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.			
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures For non-emergency : No action shall be taken involving any personal risk or without suitable training. personnel 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 nonemergency personnel". **6.2 Environmental** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and precautions 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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

### 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 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		
<b>x</b> ylene	EU OEL (Europe, through skin.	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absort through skin.		
	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 h	ours.		
2-methylpropan-1-ol	ACGIH TLV (Unite	ACGIH TLV (United States, 1/2022).		
	TWA: 152 mg/m <sup>3</sup> 8 hours.			
	TWA: 50 ppm 8 h			
crystalline silica, respirable powder (<10 mic	crons)			
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			sonal protection
SECTION 8: Exposur	e	•	•
12-hydroxyoctadecanoic acid with 1,3-benzenedimethanam hexamethylenediamine		action products	ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable ACGIH TLV (United States). TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form: Respirable particle
Recommended monitoring procedures	:	Standard EN 689 by inhalation to ch strategy) Europea application and us biological agents) requirements for t agents) Reference	be made to monitoring standards, such as the following: European (Workplace atmospheres - Guidance for the assessment of exposure memical agents for comparison with limit values and measurement an Standard EN 14042 (Workplace atmospheres - Guide for the se of procedures for the assessment of exposure to chemical and European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical ce to national guidance documents for methods for the determination stances will also be required.
3.2 Exposure controls			
Appropriate engineering controls	:	other engineering recommended or	quate ventilation. Use process enclosures, local exhaust ventilation of controls to keep worker exposure to airborne contaminants below ar statutory limits. The engineering controls also need to keep gas, ncentrations below any lower explosive limits. Use explosion-proof tent.
Individual protection measur	res		
Hygiene measures	:	eating, smoking a Appropriate techn Contaminated wo contaminated clot	earms and face thoroughly after handling chemical products, before ind using the lavatory and at the end of the working period. iques should be used to remove potentially contaminated clothing. rk clothing should not be allowed out of the workplace. Wash hing before reusing. Ensure that eyewash stations and safety to the workstation location.
Eye/face protection Skin protection	:	Chemical splash	goggles.
Hand protection	:	worn at all times we necessary. Considuring use that the noted that the time glove manufacture protection time of frequently repeate (breakthrough time When only brief c (breakthrough time The user must ch product is the most	It, impervious gloves complying with an approved standard should be when handling chemical products if a risk assessment indicates this is idering the parameters specified by the glove manufacturer, check e gloves are still retaining their protective properties. It should be e to breakthrough for any glove material may be different for different ers. In the case of mixtures, consisting of several substances, the the gloves cannot be accurately estimated. When prolonged or ed contact may occur, a glove with a protection class of 6 e greater than 480 minutes according to EN 374) is recommended. ontact is expected, a glove with a protection class of 2 or higher e greater than 30 minutes according to EN 374) is recommended. eck that the final choice of type of glove selected for handling this st appropriate and takes into account the particular conditions of use, user's risk assessment.
Gloves	1	butyl rubber	
Body protection	:	performed and the handling this prod static protective c should include an	ve equipment for the body should be selected based on the task being e risks involved and should be approved by a specialist before uct. When there is a risk of ignition from static electricity, wear anti- lothing. For the greatest protection from static discharges, clothing ti-static overalls, boots and gloves. Refer to European Standard EN formation on material and design requirements and test methods.
Other skin protection		based on the task	ear and any additional skin protection measures should be selected being performed and the risks involved and should be approved by a nandling this product.
Respiratory protection			

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<b>SECTION 8: Exposu</b>	re controls/personal 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.
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.
<b>SECTION 9: Physica</b>	I and chemical properties
The conditions of measureme	nt of all properties are at standard temperature and pressure unless otherwise indicated.
9.1 Information on basic phy	vsical and chemical properties
<u>Appearance</u>	
Discolate to	

Appearance					
Physical state	: 1	Liquid.			
Colour	: (	Grey.			
Odour	: /	Aromatic. [Slight]			
Odour threshold	: 1	Not available.			
Melting point/freezing point	C	May start to solidify at the follo data for the following ingredier -68.36°C (-91°F)			
Initial boiling point and boiling range	: >	>37.78°C			
Flammability	: 1	Not available.			
Upper/lower flammability or explosive limits	: (	Greatest known range: Lower:	: 1.7% Upp	er: 10.9% (2-r	nethylpropan-1-ol)
Flash point	: (	Closed cup: 37°C			
Auto-ignition temperature	:	Ingredient name	°C	°F	Method
		2,3-epoxypropyl neodecanoate	276	528.8	
Decomposition temperature					
Decomposition temperature	: :	Stable under recommended s	torage and I	handling cond	tions (see Section 7).
		Stable under recommended s Not applicable. insoluble in wa		handling cond	tions (see Section 7).
рН	: 1		iter.		tions (see Section 7).
pH Viscosity	:	Not applicable. insoluble in wa Kinematic (room temperature)	iter.		tions (see Section 7).
pH Viscosity Viscosity	:	Not applicable. insoluble in wa Kinematic (room temperature) Kinematic (40°C): >21 mm²/s	iter.		tions (see Section 7).
pH Viscosity Solubility(ies) Media	:	Not applicable. insoluble in wa Kinematic (room temperature) Kinematic (40°C): >21 mm²/s	iter.		tions (see Section 7).

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

Vapour pressure	:	Vapor	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2				
Evaporation rate	: Highest known value acetate	e: 0.77 (xy	lene) V	Veighted avera	ge: 0.730	compared	with butyl	
Relative density	: 1.66							
Vapour density	: Highest known value	e: 3.7 (Air	= 1) (x	vlene). Weigh	ted avera	ade: 3.37	(Air = 1)	

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<b>SECTION 9: Physic</b>	al and chemica	al properties			
Explosive properties		t itself is not explosive, but the formation of an ust with air is possible.	explosible mixture of		
Oxidising properties	: Product doe	es not present an oxidizing hazard.			
Particle characteristics					
Median particle size	: Not applicat	: Not applicable.			

### 9.2 Other information

No additional information.

<b>SECTION 10: Stabilit</b>	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
<mark>e</mark> poxy 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>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
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		l c	
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.

Irritation/Corrosion

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## **SECTION 11: Toxicological information**

Product/ingredie	nt name	Result	Species	Score	Exposure	Observation
epoxy resin (MW ≤ 700)		Eyes - Mild irritant	Rabbit	-	-	-
		Skin - Mild irritant	Rabbit	-	-	-
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary		·			·	
Skin : There are no data available on the mixture itself.						
Eyes	yes : There are no data available on the mixture itself.					

Respiratory

Code

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

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

**Aspiration hazard** 

Product/ingredient name	Result	
xylene	ASPIRATION HAZARD - Category 1	

Information on likely routes of exposure

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: Not available.
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### Potential acute health effects

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

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SECTION 11: Toxico	lo	gical information
Inhalation	1	No specific data.
Ingestion	1	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
	ecte	<u>s as well as chronic effects from short and long-term exposure</u>
<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	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.

### **11.2 Information on other hazards**

### **11.2.1 Endocrine disrupting properties**

Not available.

### 11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

12.1 Toxicity

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## **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW ≤ 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 magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
epoxy resin (MW ≤ 700) 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine		5 % - 28 days 9 % - Not readily - 29 c	days	-	-
Conclusion/Summary	: There are no data	a available on the mixtu	re itself.		
Product/ingredient name		Aquatic half-life	Photo	lysis	Biodegradability
epoxy resin (MW  ≤ 700) xylene		-	-		Not readily Readily

### **12.3 Bioaccumulative potential**

2,3-epoxypropyl neodecanoate

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

### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Not readily

## SECTION 12: Ecological information

Mobility

: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

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Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

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

### **13.1 Waste treatment methods**

### **Product**

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal 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 substance			
ackaging	L			
Methods of disposal		on of waste should be avoided or minimised wherever possible. Waste ould be recycled. Incineration or landfill should only be considered wher ot 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		

pecial 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.
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## **SECTION 14: Transport information**

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

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## **SECTION 14: Transport information**

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

### **Additional information**

ADR/RID	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code	: (D/E)
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.

user

14.6 Special precautions for : 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	: Not applicable.
according to IMO	
instruments	

## SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

### Ozone depleting substances (1005/2009/EU)

Not listed.

**15.2 Chemical safety** : No Chemical Safety Assessment has been carried out. assessment

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	;) No. 1907/2006 (REACH), Annex		
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<b>SECTION 16: Other</b>	information		
Indicates information that	has changed from previously issue	ed version.	
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling 1272/2008] DNEL = Derived No Effect Let EUH statement = CLP-specific PNEC = Predicted No Effect C RRN = REACH Registration N	g and Packaging Regulation [Re vel c Hazard statement Concentration	gulation (EC) No.
Full text of abbreviated H statements	<ul> <li>H312 Harmful in contact w</li> <li>H315 Causes skin irritatio</li> <li>H317 May cause an allerg</li> <li>H318 Causes serious eye</li> <li>H319 Causes serious eye</li> <li>H32 Harmful if inhaled.</li> <li>H335 May cause respirate</li> <li>H336 May cause drowsine</li> <li>H341 Suspected of causir</li> <li>H372 Causes damage to a</li> <li>H373 May cause damage</li> <li>H411 Toxic to aquatic life</li> <li>H412 Harmful to aquatic life</li> </ul>	owed and enters airways. with skin. gic skin reaction. e damage. e irritation. pry irritation. ess or dizziness.	repeated exposure.
Full text of classifications [CLP/GHS]	Aquatic Chronic 2LCAquatic Chronic 3LCAquatic Chronic 4LCAsp. Tox. 1ASEye Dam. 1SEEye Irrit. 2SEFlam. Liq. 3FLMuta. 2GISkin Irrit. 2SFStoT RE 1SFEXSFSTOT RE 2SFSTOT SE 3SF	CUTE TOXICITY - Category 4 DNG-TERM (CHRONIC) AQUA DNG-TERM (CHRONIC) AQUA DNG-TERM (CHRONIC) AQUA SPIRATION HAZARD - Categor ERIOUS EYE DAMAGE/EYE IR ERIOUS EYE DAMAGE/EYE IR AMMABLE LIQUIDS - Category ERM CELL MUTAGENICITY - C KIN CORROSION/IRRITATION KIN SENSITISATION - Category PECIFIC TARGET ORGAN TO XPOSURE - Category 1 PECIFIC TARGET ORGAN TO XPOSURE - Category 2 PECIFIC TARGET ORGAN TO XPOSURE - Category 3	TIC HAZARD - Category 3 TIC HAZARD - Category 4 y 1 RITATION - Category 1 RITATION - Category 2 y 3 Category 2 - Category 2 / 1 KICITY - REPEATED
History	4.4		
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Prepared by	: EHS		
Version	: 3.04		

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