SAFETY DATA SHEET

Date of issue/Date of revision

: 28 June 2021

Version : 3.01



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE RAL 7000
Product code	: 00425324
Product type	: Liquid.
Other means of identification	on la constante de la constante
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

Code : 00425324	Date of issue/Date of revision : 28 June 2021
SIGMASHIELD 880 BASE RAI	L 7000
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) Phenol, methylstyrenated Quartz (SiO2) 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 \mathbf{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

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]
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]
Quartz (SiO2)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	[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.

Type

Code

[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.
E 2 Chastiel horowdo avising f	rem the substance or mixture

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.
	nom being discharged to any waterway, sewer or drain.

English (GB)	United Arab Emirates
0 ()	

Code : 00425324	Date of issue/Date of revision : 28 June 2021		
SIGMASHIELD 880 BASE RAL 7000			
SECTION 5: Firefight	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 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	
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.	
Quartz (SiO2)	ACGIH TLV (United States, 3/2020). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable	
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Conforms to Regulation (EC)	No.	1907/2006 (REA	CH), Annex II					
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SECTION 8: Exposul	re c	controls/per	sonal protection	on				
12-hydroxyoctadecanoic acid with 1,3-benzenedimethanan hexamethylenediamine				States). m: Inhalable particle alable dust) Form: Respira	able particle			
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		other engineering recommended or	controls to keep worl statutory limits. The ncentrations below ar	e process enclosures, loca ker exposure to airborne ca engineering controls also r ny lower explosive limits. U	ontaminants below any need to keep gas,			
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		worn at all times v necessary. Consi during use that the noted that the time glove manufacture protection time of frequently repeate (breakthrough tim When only brief co (breakthrough tim The user must che product is the mos	when handling chemic idering the parameter e gloves are still retai e to breakthrough for ers. In the case of mi the gloves cannot be ed contact may occur, e greater than 480 m ontact is expected, a e greater than 30 mir eck that the final choi	complying with an approve cal products if a risk assess s specified by the glove maining their protective proper any glove material may be xtures, consisting of sever accurately estimated. Wh a glove with a protection of inutes according to EN 374 glove with a protection class outes according to EN 374 ce of type of glove selected tes into account the particu- ent.	sment indicates this is anufacturer, check ties. It should be different for different al substances, the nen prolonged or class of 6 4) is recommended. ss of 2 or higher) is recommended. d for handling this			
Gloves	: 1	butyl rubber						
Body protection		Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.						
Other skin protection		based on the task		I skin protection measures I the risks involved and sho				
Respiratory protection	:							
				Inited Auch Furthers				
			English (GB)	United Arab Emirates	7/15			

hazards of the product and the safe working limits of the selected respirator. I are exposed to concentrations above the exposure limit, they must use approprent fitted, air-purifying or air-fed respirator corwith 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 e they comply with the requirements of environmental protection legislation. In scases, fume scrubbers, filters or engineering modifications to the process equipwill be necessary to reduce emissions to acceptable levels. SECTION 9: Physical and chemical properties Appearance Physical state : Liquid. Colour : Grey. Odour threshold : Not available. pH : insoluble in water. Melting point/freezing point : May start to solidify at the following temperature: -14°C (6.8°F) This is based at for the following ingredient: Phenol, methylstyrenated. Weighted aver -68.36°C (-91°F) Initial boiling point and boiling range : >37.78°C	Code : 00425324	Date of issue/Date of revision : 28 June 2021
Respirator selection must be based on known or anticipated exposure levels, t hazards of the product and the safe working limits of the selected respirator. I are exposed to concentrations above the exposure limit, they must use appropretified respirators. Use a properly fitted, air-purifying or air-fed respirator correctified respirators. Use a properly fitted, air-purifying or air-fed respirator correctified respirators. Use a properly fitted, air-purifying or air-fed respirator correctified respirators. Use a properly fitted, air-purifying or air-fed respirator correctified respirators. Use a properly fitted, air-purifying or air-fed respirator correctified respirator. In a perception that a perception and perception of the selected to encentrations above the exposure limit, they must use approprectified respirators. Environmental exposure : Emissions from ventilation or work process equipment should be checked to e they comply with the requirements of environmental protection legislation. In scases, fume scrubbers, filters or engineering modifications to the process equi will be necessary to reduce emissions to acceptable levels. SECTION 9: Physical and chemical properties Appearance Physical state : Liquid. Colour : Grey. Odour : Not available. pH : insoluble in water. Melting point/freezing point : May start to solidify at the following temperature: -14°C (6.8°F) This is base data for the following ingredient: Phenol, methylstyrenated. Weighted averaces. 36°°C (-91°F) Initial boiling point and boiling range <	SIGMASHIELD 880 BASE RAL 7	000
hazards of the product and the safe working limits of the selected respirator. I are exposed to concentrations above the exposure limit, they must use approper certified respirators. Use a properly fitted, air-purifying or air-fed respirator cor 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 e they comply with the requirements of environmental protection legislation. In scases, fume scrubbers, filters or engineering modifications to the process equi will be necessary to reduce emissions to acceptable levels. SECTION 9: Physical and chemical properties Appearance Physical state : Liquid. Colour : Grey. Odour threshold : Not available. pH : insoluble in water. Melting point/freezing point : May start to solidify at the following temperature: -14°C (6.8°F) This is bassidate for the following ingredient: Phenol, methylstyrenated. Weighted aver -68.36°C (-91°F) Initial boiling point and boiling range : >37.78°C	SECTION 8: Exposure	controls/personal protection
controls they comply with the requirements of environmental protection legislation. In s cases, fume scrubbers, filters or engineering modifications to the process equivalle hereessary to reduce emissions to acceptable levels. SECTION 9: Physical and chemical properties The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indices 9.1 Information on basic physical and chemical properties Appearance Physical state : Colour : Grey. Odour : Aromatic. [Slight] Odour threshold : PH : insoluble in water. Melting point/freezing point : May start to solidify at the following temperature: -14°C (6.8°F) This is based data for the following ingredient: Phenol, methylstyrenated. Weighted averation: -68.36°C (-91°F) Initial boiling point and boiling range : >37.78°C		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.
The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indice 9.1 Information on basic physical and chemical properties Appearance Physical state : Liquid. Colour : Grey. Odour : Aromatic. [Slight] Odour threshold : Not available. pH : insoluble in water. Melting point/freezing point : May start to solidify at the following temperature: -14°C (6.8°F) This is based data for the following ingredient: Phenol, methylstyrenated. Weighted averation to the following ingredient: Phenol, methylstyrenated. Weighted averations are appreciated. Initial boiling point and boiling range : >37.78°C		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
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data for the following ingredient: Phenol, methylstyrenated. Weighted avera -68.36°C (-91°F) Initial boiling point and : >37.78°C boiling range	pH	insoluble in water.
boiling range	Melting point/freezing point	 May start to solidify at the following temperature: -14°C (6.8°F) This is based on data for the following ingredient: Phenol, methylstyrenated. Weighted average: -68.36°C (-91°F)
	•••	: >37.78°C
Flash point : Closed cup: 37°C		: Closed cup: 37°C

Evaporation rate

: Highest known value: 0.77 (xylene) Weighted average: 0.73compared with butyl acetate

: liquid : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)

Upper/lower flammability or **explosive limits**

Flammability (solid, gas)

Vapour pressure :	Ingredient name	Vapour Pressure at 20°C Vapour pressure at				ire at 50°C	
		mm Hg	kPa		mm Hg	kPa	Method
	2-methylpropan-1-ol	<12	-	DIN EN 13016-2			

: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.37 (Air = 1) Vapour density **Relative density** : 1.7 Solubility(ies) : Insoluble in the following materials: cold water.

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

Auto-ignition temperature

Oxidising properties

1	Ingredient name	°C	°F	Method
	2,3-epoxypropyl neodecanoate	276	528.8	

Decomposition temperature	: Stable und
Viscosity	: Kinematic
Viscosity	:>100 s (IS
Explosive properties	: Product do

- Stable under recommended storage and handling conditions (see Section 7).
- (40°C): >21 mm²/s
- SO 6mm)
 - oes not present an explosion hazard.
 - : Product does not present an oxidizing hazard.

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SECTION 9: Physical and chemical properties

9.2 Other information

Code

No additional information.

: 00425324

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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
	31732.11 mg/kg
Inhalation (vapours)	205.33 mg/l
Inhalation (dusts and mists)	273.43 mg/l

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient	name	Result	Species	Score	Exposure	Observation
epoxy resin (MW ≤ 700)		Skin - Mild irritant	Rabbit	-	-	-
		Eyes - 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	
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 toxic	ity (single exposure)

toxicity (single exposu laryer Ulgan

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
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

```
: Not available.
```

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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Inhalation	: No specific data.		
Ingestion	: No specific data.		
Skin contact	: Adverse symptom irritation redness dryness cracking	s may include the following:	
Eye contact	pain or irritation watering redness	s may include the following:	
	cts as well as chroni	ic effects from short and long-term expos	<u>ure</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	ects		
Not available.			
Conclusion/Summary	: Not available.		
General	: May cause damag repeated contact of	ge to organs through prolonged or repeated e can defat the skin and lead to irritation, crack a severe allergic reaction may occur when su	ing and/or dermatitis.
Carcinogenicity	: No known significa	ant effects or critical hazards.	
Mutagenicity	: Suspected of cause	sing genetic defects.	
Reproductive toxicity	: No known significa	ant effects or critical hazards.	
Other information	: Not available.		

Repeated exposure to high vapor concentrations may cause irritation. Sanding and grinding dusts may be narmful if innaied. 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 ≤ 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
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		Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
		Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
		Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
epoxy resin (MW ≤ 700) 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	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.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
epoxy resin (MW ≤ 700)	-	-	Not readily
xylene	-	-	Readily
2,3-epoxypropyl neodecanoate	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
epoxy 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 low high high	

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 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

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Code

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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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 co	<u>incern</u>
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 internation	nal regulations.
Ozone depleting substances	<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

Indicates information that has changed from previously issued version.
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 Harmful in contact with skin. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Harmful Gauses serious eye damage. Causes serious eye irritation. Harmful if inhaled. Harmful if inhaled. May cause respiratory irritation. Harmful May cause drowsiness or dizziness. Harmful Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. Harmful Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life. 	Full text of abbreviated H statements	 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.		 H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects.
		H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

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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 HAZARD - C LONG-TERM (CHRONIC) AQUATIC HAZARD - C LONG-TERM (CHRONIC) AQUATIC HAZARD - C ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Cate SERIOUS EYE DAMAGE/EYE IRRITATION - Cate FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEAT EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEAT EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	ategory 3 ategory 4 egory 1 egory 2 FED
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