: Product is not intended, labelled or packaged for consumer use.

### **SAFETY DATA SHEET**

Date of issue/Date of revision

: 15 November 2022 Version : 4



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

-	
1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE REDBROWN
Product code	: 00345230
Product type	: Liquid.
Other means of identification	ation
Not available.	
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.

#### 1.3 Details of the supplier of the safety data sheet

Uses advised against

Sigma Paints Egypt Villa#8, street 279 New Maadi, Cairo Egypt Tel: 00202 516 223 797 Fax: 00202 516 38 04	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com

1.4 Emergency telephone : +20 2 6840902 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] Fam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

## 2.2 Label elements Hazard pictograms :

English (GB)

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
Code : 00345230	Date of issue/Date of revision : 15 November 2022
SIGMASHIELD 880 BASE REI	DBROWN
<b>SECTION 2: Hazards</b>	identification
Signal word	: Warning
Hazard statements	<ul> <li>Fammable liquid and vapour.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Suspected of causing genetic defects.</li> <li>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. Avoid release to the environment.
Response	: 📕 exposed or concerned: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: poxy resin (MW ≤ 700) Epoxy Resin (700 <mw<=1100) 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>ients</u>
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.

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

3.2 Mixtures	: Mixture		i		
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<mark>e</mark> poxy 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	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1700 mg/kg ATE [Inhalation	[1] [2]
		English	(GB)	Egypt	2/15

Code : 00345230		Da	ate of issue/Date of revisi	on : 15 Novemb	per 202
SIGMASHIELD 880 BASE R	EDBROWN				
SECTION 3: Compo	sition/informat	tion on in	ngredients		
	CAS: 1330-20-7 Index: 601-022-00-9		Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	(vapours)] = 11 mg/l	
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]
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.

<u>Type</u>

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 m	ieasures
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.

English	(GB)
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#### **SECTION 4: First aid measures**

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/symp	<u>itoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immed	iate 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.
SECTION 5. Eirofigh	ting measures
SECTION 5. Fileligh	
5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.

#### 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.
: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
: 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.

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SECTION 5: Firefigh	ting measures
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.
<b>SECTION 6: Acciden</b>	tal release measures
6.1 Personal precautions, pr	otective 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	: See Section 1 for emergency contact information.

#### **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).

See Section 13 for additional waste treatment information.

See Section 8 for information on appropriate personal protective equipment.

#### 7.1 Precautions for safe handling

sections

	Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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English (GB)	Egypt	5/15

Conforms to Regulation (E	C) No. 1907/2006 (REAC	CH), Annex II	
Code : 00345230		Date of issue/Date of revision	: 15 November 2022
SIGMASHIELD 880 BASE F	REDBROWN		
SECTION 7: Handli	ing and storage		
Advice on general occupational hygiene	handled, stored an drinking and smok	Id smoking should be prohibited in areas whi Id processed. Workers should wash hands ing. Remove contaminated clothing and pro eas. See also Section 8 for additional inform	and face before eating, otective equipment before
7.2 Conditions for safe storage, including any incompatibilities	with local regulatio container protected from incompatible Eliminate all ignitio closed and sealed carefully resealed a containers. Use ap	following temperatures: 0 to 35°C (32 to 95 ns. Store in a segregated and approved and d from direct sunlight in a dry, cool and well- materials (see Section 10) and food and dri on sources. Separate from oxidising materia until ready for use. Containers that have be and kept upright to prevent leakage. Do no ppropriate containment to avoid environmer ompatible materials before handling or use.	ea. Store in original ventilated area, away nk. Store locked up. als. Keep container tightly een opened must be t store in unlabelled

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Recommendations	: Not available.
Industrial sector specific 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
₩ylene	EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorbed 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 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2021).
	TWA: 152 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
12-hydroxyoctadecanoic acid, reaction products	ACGIH TLV (United States).
with 1,3-benzenedimethanamine and	TWA: 10 mg/m³ Form: Inhalable particle
hexamethylenediamine	TWA: 3 mg/m³, (inhalable dust) Form: Respirable 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

	) No. 1907/2006 (REACH), Annex II
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	re controls/personal protection
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of 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	<u>lres</u>
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	: 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.

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

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

# 9.1 Information on basic physical and chemical properties Appearance Physical state : Liquid. Colour : Brownish-red. Odour : Aromatic. [Slight]

English (GB)

data for the following ingredient: Phenol, methylstyrenate -68.36°C (-91°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylower)         Flash point       : Closed cup: 37°C         Auto-ignition temperature       : Ingredient name       °C       °F         Ø: applicable. insoluble in water.       : Stable under recommended storage and handling condit pH       : Not applicable. insoluble in water.         Viscosity       : Kinematic (40°C): >21 mm²/s       : Kinematic (40°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :       Not applicable.         Media       Result         Foid water       Not applicable.         Vapour pressure       :       Ingredient name         Vapour pressure       :       Ingredient name         Primethylpropan-1-ol       <12       <1.6       DiN EN         13016-2       :       Not applicable.       :         Partition coefficient: n-octanol/       : Not applicable.       :       :         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       :         Media </th <th>(6.8°F) This is</th> <th>lovember 2022</th>	(6.8°F) This is	lovember 2022			
SECTION 9: Physical and chemical properties         Odour threshold       : Not available.         Melting point/freezing point       : May start to solidify at the following temperature: -14°C ( data for the following ingredient: Phenol, methylstyrenate -68.36°C (-91°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylstyrenate -68.36°C (-91°F)         Flash point       : Closed cup: 37°C         Auto-ignition temperature       : Ingredient name       °C       °F         Ø <sup>3</sup> -epoxypropyl neodecanoate       276       528.8         Decomposition temperature       : Stable under recommended storage and handling condit pH       : Not applicable. insoluble in water.         Viscosity       : Kinematic (40°C): >21 mm²/s Kinematic (40°C): >21 mm²/s       Ya00 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)       :         Solubility(ies)       :       :         Imgredient name       Vapour Pressure at 20°C       imm Hylpropan-1-oi         Vapour pressure       :       :       :         Media       Result       :       :         Imgredient name       Vapour Pressure at 20°C       imm Hylpropan-1-oi					
Odour threshold       : Not available.         Melting point/freezing point       : May start to solidify at the following temperature: -14°C (data for the following ingredient: Phenol, methylstyrenate -68.36°C (-91°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-mexplosive limits         Flash point       : Closed cup: 37°C         Auto-ignition temperature       : Ingredient name       °C       °F         Ø3-epoxypropyl neodecanoate       276       528.8         Decomposition temperature       : Stable under recommended storage and handling condit         Viscosity       : > 100 s (ISO 6mm)       : Not applicable. insoluble in water.         Viscosity       : > 100 s (ISO 6mm)       : Stable       Peressure at 20°C         Media       Result       [fordidate.       [mm Hig] kPa       Method m         Water       Not applicable.       : Not applicable.       : acetate         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       imm Hig         Wethod       m       H       Prettrylpropan-1-ol       12       <1.6       DIN EN         Solubility(ies)       :       .					
Melting point/freezing point       : May start to solidify at the following temperature: -14°C ( data for the following ingredient: Phenol, methylstyrenate -68.36°C (-91°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-mexplosive limits)         Flash point       : Closed cup: 37°C         Auto-ignition temperature       : Stable under recommended storage and handling condit         pH       : Not applicable. insoluble in water.         Viscosity       : Stable under recommended storage and handling condit         pH       : Not applicable. insoluble in water.         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         Foid water       Not applicable.         Partition coefficient: n-octanol/       : Not applicable.         water       Yapour pressure       :         Vapour pressure       :       Ingredient name         Primetry/propan-1-ol       <12       <1.6       DIN EN 13016-2         Partition coefficient: n-octanol/       : Not applicable.       :       Ingredient name         Primetry/propan-1-ol       <12       <1.6       DIN EN 1					
data for the following ingredient: Phenol, methylstyrenate -68.36°C (-91°F)         Initial boiling point and boiling range       : >37.76°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylower flammability)         Flash point       : Closed cup: 37°C         Auto-ignition temperature       : Ingredient name       °C       °F         Ø:		: Not available.			
boiling range         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-m explosive limits         Flash point       : Closed cup: 37°C         Auto-ignition temperature       : Ingredient name       °C       °F         Ø:	<ul> <li>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)</li> </ul>				
Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-mexplosive limits)         Flash point       : Closed cup: 37°C         Auto-ignition temperature       : Ingredient name       °C       °F         Ø: P3-epoxypropyl neodecanoate       276       528.8         Decomposition temperature       : Stable under recommended storage and handling condition temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       : Kinematic (a0°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         Ø: did water       Not applicable.         Vapour pressure       :         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg kPa       Method         water       Not applicable.         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg kPa       Method         Water       Not applicable.         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         Ingredient name       Ingredient name         Image: State state       Ingredient name         V	: >37.78°C				
explosive limits       : Closed cup: 37°C         Auto-ignition temperature       : Ingredient name       °C       °F         Ø:3-epoxypropyl neodecanoate       276       528.8         Decomposition temperature       : Stable under recommended storage and handling condit         pH       : Not applicable. insoluble in water.         Viscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         Ø:Id water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg kPa       Method         m       Prinethylpropan-1-ol         <12       <1.6       DIN EN         13016-2       :         Evaporation rate       : Highest known value: 0.77 (xylene) Weighted average: acetate         Relative density       : 1.71         Vapour density       : 1.71         Vapour density       : The product itself is not explosive, but the formation of a vapour or dust with air is possible.         Oxidising properties       : Product does not present an oxidizing hazard.					
Auto-ignition temperature       :       Ingredient name       °C       °F         Ø:3-epoxypropyl neodecanoate       276       528.8         Decomposition temperature       :       Stable under recommended storage and handling condit         pH       :       Not applicable. insoluble in water.         Viscosity       :       Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       :       > 100 s (ISO 6mm)         Solubility(ies)       :       Imgredient name         Media       Result         Media       Result         Vapour pressure       :       Not applicable.         vater       Vapour pressure at 20°C       Imgredient name         Vapour pressure       :       Ingredient name       Method m         Vapour pressure       :       Imgredient name       Imm Hg       KPa       Method m         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Imm Hg       Imm Hg       KPa       Method m         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Imm Hg       KPa       Method m         Vapour pressure       :       Ingredient name       Vapour Or       Imm Hg       KPa	: Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)				
Improduct Hailo       Improduct Hailo       Improduct Hailo         P3-epoxypropyl neodecanoate       276       528.8         Decomposition temperature       :       Stable under recommended storage and handling condit         pH       :       Not applicable. insoluble in water.         Viscosity       :       Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       :       > 100 s (ISO 6mm)         Solubility(ies)       :       Media         Media       Result         Impredient name       Vapour Pressure at 20°C         marker       Not applicable.         water       Vapour pressure         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg kPa       Method         Water       :         Vapour pressure       :         Evaporation rate       :         Highest known value: 0.77 (xylene)       Weighted average: acetate         Relative density       :       1.71         Vapour density       :       Highest known value: 3.7 (Air = 1) (xylene). Weighted         Explosive properties       :       The product itself is not explosive, but the formation of a vapour or dust with air is possible. <td< th=""><th></th><th></th></td<>					
Decomposition temperature pH       : Stable under recommended storage and handling condit         Viscosity       : Not applicable. insoluble in water.         Viscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         Fold water       Not soluble         Partition coefficient: n-octanol/ water       : Not applicable.         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg       KPa         Method       m         Partition coefficient: n-octanol/ water       : Not applicable.         Vapour pressure       :       Ingredient name         Vapour Pressure at 20°C       m         Ingredient name       Vapour Pressure at 20°C         Ingredient name       Ingredient name         Particle density       :         Vapour pressure       :         Highest known value: 0.77 (xylene) Weighted average: acetate         Relative density       :         :       Highest known value: 3.7 (Air = 1) (xylene). Weighted         Explosive properties       :         :       The product itself is not explosive, but the formatio	Method				
pH       : Not applicable. insoluble in water.         Viscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         Fold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         water       Vapour pressure         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg       kPa         Method       m         Vapour pressure       :         Ingredient name       Imm Hg         KPa       Method         Method       m         Vapour pressure       :         Ingredient name       Imm Hg         KPa       Method         Water       :         Vapour pressure       :         Ingredient name       Imm Hg         Imm Hg       KPa         Method       m         Immethylpropan-1-oil       <12         Vapour density       :         :       1.71         Vapour density       :         :       The product itself is					
Viscosity       :       Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       :       > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         Fold water       Not soluble         Partition coefficient: n-octanol/ water       :       Not applicable.         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C         Imgredient name       Water       Method       m         Vapour pressure       :       Ingredient name       Imm Hg kPa       Method       m         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       m       m       H         Vapour pressure       :       :       Ingredient name       Vapour Pressure at 20°C       m       m         Vapour pressure       :       :       Ingredient name       Vapour Pressure at 20°C       m       m         Vapour pressure       :       :       Ingredient name       Vapour Pressure at 20°C       m       m       m         Vapour density       :       :       :       112       1.6       DIN EN       i3016-2       isotace       isotace       isotace       isotace       isotace	tions (see Se	ction 7).			
Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         Image: Solubility (ies)       :         Partition coefficient: n-octanol/       : Not soluble         Partition coefficient: n-octanol/       : Not applicable.         water       Vapour pressure         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg       KPa         Method       m         Image: Solubility (iso)       :         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg       KPa         Method       m         Image: Solution content in the image of the image	: Kinematic (room temperature): >400 mm²/s				
Solubility(ies)       :         Media       Result         Media       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         water       Vapour Pressure at 20°C         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C         Imgredient name       Vapour Pressure at 20°C       Imgredient name       Method       Imgredient name         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Imgredient name       Imgredient name       Vapour Pressure at 20°C         Evaporation rate       :       Highest known value: 0.77 (xylene)       Weighted average: acetate         Relative density       :       1.71       Yapour density       :       1.71         Vapour density       :       Highest known value: 3.7 (Air = 1) (xylene). Weighted average: acetate       Standard average is acetate         Oxidising properties       :       Product itself is not explosive, but the formation of a vapour or dust with air is possible.         Oxidising properties       :       Product does not present an oxidizing hazard.					
Media       Result         Øold water       Not soluble         Partition coefficient: n-octanol/ : Not applicable.         water         Vapour pressure         Ingredient name         Ingredient name         Vapour Pressure at 20°C         Imm Hg         KPa         Method         Keau         Keau         Keau         Relative density         Keau         Keau					
Partition coefficient: n-octanol/ :       Not applicable.         Water       Vapour pressure         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C         mm Hg       kPa         Method       m         Prettylpropan-1-ol       <12         Vapour pressure       :         Highest known value: 0.77 (xylene)         Weighted average: acetate         Relative density       :         Vapour density       :         Yapour density       :         The product itself is not explosive, but the formation of a vapour or dust with air is possible.         Oxidising properties       :         Particle characteristics					
waterVapour pressure:Ingredient nameVapour Pressure at 20°CImm HgKPaMethodmImm HgKPaMethodMethodImm HgKPaMethodMethodImm HgKPaMethodMethodImm HgKPaMethodMethodImm HgKPaMethodMethodImm HgKPaMethodIm					
Vapour pressure:Ingredient nameVapour Pressure at 20°CIngredient namemm HgkPaMethodmmImgredient namemm HgkPaMethodmmImgredient nameimgredient nameimgredient namemmImgredient nameimgredient name<					
Ingredient nameImprovement of the point reconnect to the point rec	r Pressure at 20°C Vapour pressure at 50°C				
Evaporation rateHighest known value: 0.77 (xylene) Weighted average: acetateRelative density: Highest known value: 0.77 (xylene) Weighted average: acetateRelative density: 1.71Vapour density: Highest known value: 3.7 (Air = 1) (xylene). WeightedExplosive properties: The product itself is not explosive, but the formation of a vapour or dust with air is possible.Oxidising properties: Product does not present an oxidizing hazard.		1			
Evaporation rate13016-2Evaporation rateHighest known value: 0.77 (xylene) Weighted average: acetateRelative density1.71Vapour densityHighest known value: 3.7 (Air = 1) (xylene). WeightedExplosive propertiesThe product itself is not explosive, but the formation of a vapour or dust with air is possible.Oxidising propertiesProduct does not present an oxidizing hazard.	-	Method			
acetateRelative density: 1.71Vapour density: Highest known value: 3.7 (Air = 1) (xylene). WeightedExplosive properties: The product itself is not explosive, but the formation of a vapour or dust with air is possible.Oxidising properties: Product does not present an oxidizing hazard.Particle characteristics					
Vapour density: Highest known value: 3.7 (Air = 1) (xylene). WeightedExplosive properties: The product itself is not explosive, but the formation of a vapour or dust with air is possible.Oxidising properties: Product does not present an oxidizing hazard.Particle characteristics	0.73compare	d with butyl			
Explosive properties: The product itself is not explosive, but the formation of a vapour or dust with air is possible.Oxidising properties: Product does not present an oxidizing hazard.Particle characteristics					
Oxidising properties: Product does not present an oxidizing hazard.Particle characteristics	<ul> <li>Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.37 (Air = 1)</li> <li>The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.</li> </ul>				
Particle characteristics					
Median particle cize					
Median particle size       : Not applicable.					
9.2 Other information					
No additional information.					
SECTION 10: Stability and reactivity					
<b>10.1 Reactivity</b> : No specific test data related to reactivity available for this pro-	oduct or its in	gredients.			

10.3 Possibility of	: Under normal conditions of storage and use, hazardous reactions will not occur.
hazardous reactions	

: The product is stable.

10.2 Chemical stability

Conforms to Regulation (EC)	NO. 1907/2006 (REACH), Annex II
Code : 00345230	Date of issue/Date of revision : 15 November 2022
SIGMASHIELD 880 BASE RED	BROWN
SECTION 10: Stabilit	y and reactivity
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>&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			
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

Product/ingredient 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**

- : There are no data available on the mixture itself.
- : There are no data available on the mixture itself.
- Respiratory Sensitisation

Skin

Eyes

- : There are no data available on the mixture itself.
- : I here are no data available on the mixtur

		exposu	re	
epoxy resin (MW  ≤ 700)		skin	Mouse	Sensitising
Conclusion/Summary				
Skin	: There are no	data available on the n	nixture itself.	
Respiratory	: There are no data available on the mixture itself.			
Mutagenicity				
<b>Conclusion/Summary</b>	: There are no	data available on the n	nixture itself.	

English (GB)

**Route of** 

**Species** 

Egypt

Result

9/15

Code       : 0034320       Date of issue/Date of revision       : 15 November 2022         SIGMASHELD 880 BASE REDBROWN         SECTION 11: Toxicological information         Carcinogenicity         Conclusion/Summary       : There are no data available on the mixture itself.         Earatogenicity         Conclusion/Summary       : There are no data available on the mixture itself.         Specific target organ toxicity (single exposure)         Product/Ingredient name       Category 3         specific target organ toxicity (repeated exposure)         Product/Ingredient name       Category 3         Specific target organ toxicity (repeated exposure)         Product/Ingredient name       Category 2         Respiratory tract irritation (Category 3)       -         n3-berezene/methanamine and hexamethylenediamine       Category 3         Aspiration hazard       Target organs         Product/Ingredient name       Category 2       Inhelation         inja-berezene/methanamine and hexamethylenediamine       Aspiration hazard       Target organ         Aspiration hazard       Category 3       -       Target organ         Syndrom related to hepetyneised. cheating to the skin. Nay cause an allergic skin reaction.       Eye contact       : Causes skin initiation. Defating to the skin. Nay cause an allergic skin reaction.	Conforms to Regulation (EC)	No. 1907/2006 (REACH), Ani	nex II			
SECTION 11: Toxicological information         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.         Joratoganicity       Conclusion/Summary       : There are no data available on the mixture itself.         Specific target organ toxicity (single exposure)       Respiratory tract irritation         Product/Ingredient name       Category 3       -         Zymethylpropan-1-ol       Category 3       -         Zenethylpropan-1-ol       Category 3       -         Zenethylpropan-1-ol       Category 3       -         Specific target organ toxicity (repeated exposure)       Route of exposure       Target organs         Product/Ingredient name       Category 2       Inhalation       lungs         Ab-bacenedimethanamine and hexamethylenediamine       AsPIRATION HAZARD - Category 1       Information on likely       :         Not available.       routes of exposure       Productingredient name       Result       xylene         Aspiration hazard       Aspiration hazards.       Inhalation       Iungs       Inhalation       Iungs         Stin contact       : Causes skin iritation.       Secontact       : Causes skin iritation. </td <td>Code : 00345230</td> <td></td> <td>Date of issue</td> <td>Date of revision</td> <td>: 15 November 2022</td>	Code : 00345230		Date of issue	Date of revision	: 15 November 2022	
Garclinogenicity       Conclusion/Summary       : There are no data available on the mixture itself.         Reporductive toxicity       Conclusion/Summary       : There are no data available on the mixture itself.         Conclusion/Summary       : There are no data available on the mixture itself.         Specific target organ toxicity (single exposure)       Product/Ingredient name       Category 3       exposure         Aprent Product/Ingredient name       Category 3       -       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Product/Ingredient name       Category 3       -       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Product/Ingredient name       Category 2       Inhalation       Iungs         Mathemation on likely       : Not available.       Category 2       Inhalation       Iungs         Information on likely       : Not available.       ASPIRATION HAZARD - Category 1       Information on likely       : Not available.         Symptoms related to the physical. chemical and toxicological characteristics       Inhalation       : No specific data.         Skin contact       : Causes skin irritation       : No specific data.       Skin contact       : Sues serious eye irritation.         Symptoms related to the physical. chemical and toxicological characteristics       Inhalation       :	SIGMASHIELD 880 BASE REDBROWN					
Conclusion/Summary : There are no data available on the mixture itself.         Reproductive toxicity         Conclusion/Summary : There are no data available on the mixture itself.         Jestagenicity         Conclusion/Summary : There are no data available on the mixture itself.         Specific target organ toxicity (single exposure)         Product/ingredient name       Category a control of exposure         Zylene       Category 3       Respiratory tract initiation         Zynethypopan-1-ol       Category 3       Respiratory tract initiation         Specific target organ toxicity (repeated exposure)       Respiratory tract initiation         Product/ingredient name       Category 2       Route of exposure         Aspiration hazard       Result       Result         Rylene       Aspiration hazard       Result         Product/ingredient name       Category 2       Inhalation         Information on likely       : Not available.       Noute of exposure         Potoute headth offects       Inhalation       Lungs         Inhalation       : No known significant effects or critical hazards.       Ingestion         Swin contact       : Causes skin irritation.       Category 2         Inhalation       : No known significant effects or critical hazards.       Ingestion         Information	<b>SECTION 11: Toxicol</b>	ogical information				
Reproductive toxicity         Conclusion/Summary       : There are no data available on the mixture itself.         Iteratogenicity         Conclusion/Summary       : There are no data available on the mixture itself.         Specific target organ toxicity (single exposure)         Product/ingredient name       Category 3         Applies       Respiratory tract irritation         Category 3       -         Product/ingredient name       Category 3         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation         Specific target organ toxicity (repeated exposure)       Respiratory tract irritation <td>Carcinogenicity</td> <td></td> <td></td> <td></td> <td></td>	Carcinogenicity					
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 toxicity (single exposure)       Product/ingredient name       Category 3       -         Aviene       Category 3       -       Respiratory traci inflation         2-methylpropan-1-ol       Category 3       -       Respiratory traci inflation         Specific target organ toxicity (repeated exposure)        Respiratory traci inflation         Specific target organ toxicity (repeated exposure)        Respiratory traci inflation         Specific target organ toxicity (repeated exposure)        Respiratory traci inflation         Specific target organ toxicity (repeated exposure)        Respiratory traci inflation         Specific target organ toxicity (repeated exposure)        Respiratory traci inflation         Specific target organ toxicity (repeated exposure)        Respiratory traci inflation         Specific target organ toxicity (repeated exposure)        Result         Product/ingredient name       Category 2       Inhalation       lungs         1,3-berezereendimethamamine and hexamethylenediamine       Category 1       Inflation         Information on likely       : Not available. </td <td><b>Conclusion/Summary</b></td> <td>: There are no data availabl</td> <td>le on the mixtu</td> <td>re itself.</td> <td></td>	<b>Conclusion/Summary</b>	: There are no data availabl	le on the mixtu	re itself.		
Trategenicity         Conclusion/Summary       : There are no data available on the mixture itself.         Specific target organ toxicity (slingle exposure)       Route of category a consume in the support of the suport of the support	Reproductive toxicity					
Conclusion/Summary       : There are no data available on the mixture itself.         Specific target organ toxicity (single excosure)         Applied         Sylene         2-methylpropan-1-ol         Category 3         Product/ingredient name         Category 3         Specific target organ toxicity (repeated exposure)         Product/ingredient name       Category 3         Product/ingredient name       Category 2         Inhalation       lungs         Aspiration tazard       Category 2         Information on likely       : Not available.         routes of exposure       Aspiration hazard         Potential acute health effects       Inhalation         Information on likely       : Not available.         routes of exposure       Causes serious eye irritation.         Skin contact       : Causes serious eye irritation.         Symptoms related to the physical, chemical and toxicological characteristics         Ingestion       : No specific data.         Skin contact       : Adverse symptoms may include the following: irritation redness dryness         Caragory irritation       : No specific data.         Skin contact       : Adverse symptoms may include the following: irritation redness         Delayed and immediate offectser	<b>Conclusion/Summary</b>	: There are no data availabl	le on the mixtu	re itself.		
Specific target organ toxicity (single exposure)           Product/ingredient name         Category (axposure)         Route of exposure         Target organs (axposure)           Specific target organ toxicity (repeated exposure)         -         Respiratory tract irritation (Category) 3         -           Specific target organ toxicity (repeated exposure)         -         Respiratory tract irritation (Category) 3         -           Productingredient name         Category (avposure)         Target organs (avposure)         -           Productingredient name         Category (avposure)         Target organs (avposure)         -           Productingredient name         Category (avposure)         Target organs (avposure)         -           Aspiration hazard         -         -         -         -           Aspiration on likely         : Not available.         -         -         -           Potential acute health effects         -	<b>Teratogenicity</b>					
Product/ingredient name         Category category 3 Category 2 Category 2 Cate	<b>Conclusion/Summary</b>	: There are no data availabl	le on the mixtu	re itself.		
xylene       category 3       category 3       Respiratory tract irritation Category 3         Specific target organ toxicity (repeated exposure)       Product/ingredient name       Category 3       Respiratory tract irritation Narcotic effects         Product/ingredient name       Category 2       inhalation       lungs         1.3-berzendimethanamine and hexamethylenediamine       Category 2       inhalation       lungs         Aspiration hazard       Result       xylene       ASPIRATION HAZARD - Category 1         Information on likely       : Not available.       Not available.       Category 2         routes of exposure       : No known significant effects or critical hazards.       Inagetion       : Sin contact         Symptoms related to the physical. chemical and toxicological characteristics       Inhalation       : No specific data.         Ingestion       : No specific data.       : No specific data.       : Sin contact       : Adverse symptoms may include the following: intritation redness drymess         Eye contact       : Adverse symptoms may include the following: intritation redness       : Adverse symptoms may include the following: intritation redness         Belayed and immediate effects       : Not available.       : Adverse symptoms may include the following: intritation redness         Potential immediate effects       : Not available.       : Adverse symptoms may include the following:	Specific target organ toxicit	<u>y (single exposure)</u>				
2-methylpropan-1-ol       Category 3 Category 3       -       Respiratory fract initiation Narcotic effects         Specific target organ toxicity (repeated exposure)       -       Respiratory fract initiation Narcotic effects         Product/ingredient name       Category 2 exposure       Inhalation       lungs         Aspiration hazard       -       Result         Aspiration narce       Result       Narcetic effects         Information on likely       :       Not available.       -         routes of exposure       -       -       -         Product/ingredient name       Result       -       -         xylene       ASPIRATION HAZARD - Category 1       -       -         Information on likely       :       Not available.       -       -         routes of exposure       -       -       -       -       -         Potential acute health effects       -	Product/ingr	edient name	Category		Target organs	
Category 3         Narcotic effects           Specific target organ toxicity (repeated exposure)         Target organs           Product/ingredient name         Category         Route of exposure         Target organs           I3-benzenedimethanamine and hexamethylenediamine         Category 2         inhalation         lungs           Aspiration hazard         Category 2         inhalation         lungs           Aspiration hazard         Result         xylene         ASPIRATION HAZARD - Category 1           Information on likely         : Not available.         routes of exposure         Potential acute health effects           Inhalation         : No known significant effects or critical hazards.         Skin contact         : Causes serious eye irritation.           Symptoms related to the physical, chemical and toxicological characteristics         Inhalation         : No specific data.           Ingestion         : No specific data.         : Adverse symptoms may include the following: irritation redness dryness         : adverse symptoms may include the following: irritation redness           Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure           Potential delayed effects         : Not available.         : effects           Potential immediate         : Not available.         : effects	5			-		
Specific target organ toxicity (repeated exposure)       Target organs         Product/ingredient name       Category       Route of exposure         Product/ingredient name       Category 2       inhalation       lungs         Aspiration hazard       Category 2       inhalation       lungs         Aspiration hazard       Result       Aspiration hazard         Product/ingredient name       Result       xylene       Aspiration hazard         Information on likely       : Not available.       routes of exposure       Product/ingredient effects         Inhalation       : No known significant effects or critical hazards.       Ingestion       : No known significant effects or critical hazards.         Skin contact       : Causes skin irritation. Defating to the skin. May cause an allergic skin reaction.       Eye contact       : Causes serious eye irritation.         Symptoms related to the physical. chemical and toxicological characteristics       Inhalation       : No specific data.         Ingestion       : No specific data.       Skin contact       : Adverse symptoms may include the following: irritation redness         cracking       epieness       cracking       erdness         Delayed and inmediate effects as well as chronic effects from short and long-term exposure       Short term exposure         Potential inmediate       : Not available. <t< td=""><td>2-methylpropan-1-ol</td><td></td><td></td><td>-</td><td></td></t<>	2-methylpropan-1-ol			-		
Product/ingredient name         Category         Route of exposure         Target organs           IP2-hydroxyoctadecanoic acid, reaction products with 1.3-benzenedimethanamine and hexamethylenediamine         Category 2         inhalation         lungs           Aspiration hazard         Aspiration hazard         Result         xylene         ASPIRATION HAZARD - Category 1           Information on likely         :         Not available.         ASPIRATION HAZARD - Category 1           Potential acute health effects         Inhalation         :         No known significant effects or critical hazards.           Ingestion         :         No known significant effects or critical hazards.         Skin contact         :           Symptoms related to the physical, chemical and toxicological characteristics         Inhalation         :         No specific data.           Ingestion         :         No specific data.         Skin contact         :         Adverse symptoms may include the following: irritation redness dryness           Eye contact         :         Adverse symptoms may include the following: pain or irritation watering redness           Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure           Potential delayed effects         : Not available.         effects           Potential delayed effects         : Not available.			Category 3		Narcolic effects	
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Potential immediate       : Not available.         effects       Potential delayed effects       : Not available.	Potential delayed effects	: Not available.				
effects Potential delayed effects : Not available.	Long term exposure					
		: Not available.				
English (GB) Egypt 10/15	Potential delayed effects	: Not available.				
		Englis	sh (GB)	Eg	ypt 10/15	

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

Potential chronic health effects

Not available.

<b>Conclusion/Summary</b>	: Not available.
General	Frolonged 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

Product/ingredient name	Result	Species	Exposure
poxy 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	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella	72 hours
hexamethylenediamine		subcapitata (microalgae)	
	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	Álgaé - 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

onforms to Regulation (EC) N	lo. 1907/2006 (REA	CH), Annex II				
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SECTION 12: Ecologi	cal informatio	n				
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 d	lays ·	-		-
Conclusion/Summary	: There are no data	a available on the mixtu	re itself.			
Product/ingredient name		Aquatic half-life	Photol	ysis	Bi	iodegradability
poxy resin (MW ≤ 700) xylene 2,3-epoxypropyl neodecanoate	9	- - -	- - -		Re	ot readily eadily ot readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Poxy 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 Endocrine disrupting properties

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

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

#### European waste catalogue (EWC)

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Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### **Packaging**

Code

**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	taken when Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

#### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
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
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.
14.6 Special pre user	ecautions 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

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	

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#### **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.
<b>15.2 Chemical safety</b> : No Chemical Safety Assessment has been carried out.

assessment

#### **SECTION 16: Other information**

Indicates information that	has changed from previ	ously issued version.		
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number</li> </ul>			
Full text of abbreviated H statements	H304May be faH312Harmful iH315Causes sH317May causH318Causes sH319Causes sH319Causes sH332Harmful iH335May causH341SuspecteH373May causH411Toxic to aH412Harmful i	<ul> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H341 Suspected of causing genetic defects.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>		
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	ACUTE TOXICITY LONG-TERM (CHI LONG-TERM (CHI LONG-TERM (CHI ASPIRATION HAZ SERIOUS EYE DA SERIOUS EYE DA FLAMMABLE LIQU GERM CELL MUT	- Category 4 RONIC) AQUATIC HAZAF RONIC) AQUATIC HAZAF RONIC) AQUATIC HAZAF ARD - Category 1 MAGE/EYE IRRITATION MAGE/EYE IRRITATION JIDS - Category 3 AGENICITY - Category 2 N/IRRITATION - Category	RD - Category 3 RD - Category 4 - Category 1 - Category 2
		English (GB)	Egypt	14/15

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II						
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SECTION 16: Other information						
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEAT EXPOSURE - Category 2	ED			
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3				
<u>History</u>						
Date of issue/ Date of revision	: 15 November 2022					
Date of previous issue	: 28 June 2021					
Prepared by	: EHS					
Version	: 4					
<u>Disclaimer</u>						

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