# SAFETY DATA SHEET

**United Arab Emirates** 

Version

: 2

## Date of issue/Date of revision : 30 May 2024 SECTION 1: Identification of the substance/mixture and of the company/

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE REDBROWN
Product code	: 00445417
Other means of identificat	tion
Not available.	
1.2 Relevant identified uses	s 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 o	of the safety data sheet
Sigma Paint Saudi Arabia Lt	d.
PO Box 7509 Dammam 31472	
Saudi Arabia	
Tel: 00966 138 47 31 00	
Fax: 00966 138 47 17 34	
e-mail address of person	: ndpic@sfda.gov.sa
responsible for this SDS	
<b>1.4 Emergency telephone</b>	: 00966 138473100 extn 1001

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

Code : 00445417		Date of issue/Date of revision : 30 May	2024		
SIGMASHIELD 880 BASE REDBROWN					
SECTION 2: Hazards identification					
Hazard pictograms	:				
Signal word	: Warni	ng			
Hazard statements	Cause May c Cause Suspe	nable liquid and vapour. es skin irritation. ause an allergic skin reaction. es serious eye irritation. ected of causing genetic defects. ful to aquatic life with long lasting effects.			
Precautionary statements					
Prevention	protec hot su	t handle until all safety precautions have been read and understood. W tive gloves, protective clothing and eye or face protection. Keep away rfaces, sparks, open flames and other ignition sources. No smoking. A e to the environment.	from hea		
Response	: IF exp	osed or concerned: Get medical advice or attention.			
Storage	: Not ap	oplicable.			
Disposal	intern	se of contents and container in accordance with all local, regional, natio ational regulations. P280, P210, P273, P308 + P313, P501	onal and		
Hazardous ingredients	weigh Epoxy Pheno 2,3-ep	on product: bisphenol-A-(epichlorhydrin); epoxy resin (number average t ≤ 700) r Resin (700 <mw<=1100) ol, methylstyrenated oxypropyl neodecanoate s[12-hydroxy-octadecamide-N-methylene]-benzene</mw<=1100) 	molecul		
Supplemental label elements	: Not ap	oplicable.			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not aț	oplicable.			
Special packaging requiren	nents				
Containers to be fitted with child-resistant fastenings	: Not ap	oplicable.			
Tactile warning of danger	: Not ap	pplicable.			
.3 Other hazards					
Product meets the criteria for PBT or vPvB	: This n Sectio	nixture contains substances that are assessed to be a PBT or a vPvB, n 3.2.	refer to		
Other hazards which do not result in classification	: Prolor	nged or repeated contact may dry skin and cause irritation.			

Code

de : 00445417

Date of issue/Date of revision

: 30 May 2024

SIGMASHIELD 880 BASE REDBROWN

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

## 3.2 Mixtures

: Mixture

		~		Specific Conc.	
Product/ingredient name	Identifiers	%	Classification	Limits, M-factors and ATEs	Туре
Feaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥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 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw &lt;=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
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]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Type</u>

7 Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

## SUB codes represent substances without registered CAS Numbers.

English (GB) United Arab Emirates

Code: 00445417Date of issue/Date of revision: 30 May 2024SIGMASHIELD 880 BASE REDBROWN

SECTION 4: First aid measures

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

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sy</u>	<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.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture

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Code : 00445417		Date of issue/Date of revision	: 30 May 2024
SIGMASHIELD 880 BASE R	EDBROWN		
SECTION 5: Firefig	nting measures		
Hazards from the substance or mixture	a fire or if heated risk of a subsequ effects. Fire wat	and vapour. Runoff to sewer may create fire a, a pressure increase will occur and the conta uent explosion. This material is harmful to aq er contaminated with this material must be co arged to any waterway, sewer or drain.	ainer may burst, with the uatic life with long lasting
Hazardous combustion products	: Decomposition p carbon oxides sulfur oxides halogenated com metal oxide/oxide	•	
5.3 Advice for firefighters			
Special precautions for fire-fighters	there is a fire. N training. Move c	the scene by removing all persons from the v o action shall be taken involving any personal ontainers from fire area if this can be done wi e-exposed containers cool.	risk or without suitable
Special protective	: Fire-fighters sho	uld wear appropriate protective equipment an	d self-contained breathing

#### Fire-tighters should wear appropriate protective equipment and self-contained breathing Special protective apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing equipment for fire-fighters 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, pro	ote	ctive 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.

Code

: 00445417 SIGMASHIELD 880 BASE REDBROWN Date of issue/Date of revision : 30 May 2024

SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## **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
parium sulfate	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 10 mg/m <sup>3</sup> 8 hours.
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 7/2023). Notes: The value is for total dust containing no asbestos and < 1% crystalline silica. TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
Talc , not containing asbestiform fibres	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).
1	English (GB) United Arab Emirates 6/16

2020/878	Active Annex II, as amenada by commission regulation (EC)
Code : 00445417	Date of issue/Date of revision: 30 May 2024
SIGMASHIELD 880 BASE REDBROWN	
crystalline silica, respirable powder (>10 microns	<ul> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 2 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 7/2023). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 0.1 mg/m<sup>3</sup> 8 hours.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [silica]</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: respirable particulate</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit</li> </ul>
diiron trioxide xylene	<ul> <li>values (United Arab Emirates, 7/2016). [quartz silica crystalline–α-quartz and cristobalite]</li> <li>TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol</li> <li>ACGIH TLV (United States, 7/2023). [Silica, crystalline] Notes:</li> <li>Respirable fraction; see Appendix C, paragraph C.</li> <li>TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>TWA: 5 mg/m<sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>TWA: 5 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 7/2023). Notes: Refers to Appendix B</li> <li>- Substances of Variable Composition. Respirable fraction; see Appendix C, paragraph C.</li> <li>TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2023). Notes: Refers to Appendix B</li> <li>- Substances of Variable Composition. Respirable fraction; see Appendix C, paragraph C.</li> <li>TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m &amp; p isomers)]</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 150 ppm 16 minutes.</li> <li>STEL: 150 ppm 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> </ul>
2-methylpropan-1-ol	<ul> <li>Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>[xylene (all isomers)]</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>ACGIH TLV (United States, 7/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant.</li> <li>TWA: 20 ppm 8 hours.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>TWA: 152 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>TWA: 152 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 152 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>ACGIH TLV (United States, 7/2023).</li> </ul>
	English (GB) United Arab Emirates 7/16

Code : 00445417	Date of issue/Date of revision : 30 May 2024
SIGMASHIELD 880 BASE RE	DBROWN
	TWA: 152 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
Recommended monitoring procedures	: 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.
3.2 Exposure controls	
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 ar 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	I <u>res</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 <u>Skin protection</u>	: 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:
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.

Code : 00445417

SIGMASHIELD 880 BASE REDBROWN

Date of issue/Date of revision : 30 M

: 30 May 2024

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

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

Physical state		Liquid.							
Colour		Brownish-red.							
Ddour	÷	Characteristic.							
Dour threshold		Not available.							
Melting point/freezing point	:	May start to solidify a data for the following -68.36°C (-91°F)							
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.							
Jpper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.7% U	pper: 10	0.9% (2	2-methyl	propan-1	-ol)
Flash point	:	Closed cup: 33°C							
Auto-ignition temperature	:	Ingredient name		°C		°F	N	Nethod	
		2,3-epoxypropyl neodeca	noate	276	:	528.8			
Decomposition temperature oH Viscosity Solubility(ies)		Stable under recomm Not applicable. insolu Kinematic (40°C): >2	uble in wat	-	nd hand	ling co	nditions	(see Sec	tion 7).
Solubility(les)	1.1								
Modia		Pocult							
Media		Result							
cold water		Not soluble							
	:	Not soluble							
old water Partition coefficient: n-octanol/ water	:	Not soluble Not applicable.	Vapou	r Pressi	ure at 2	20°C	Vapo	our press	sure at 50°C
Cold water Partition coefficient: n-octanol/		Not soluble	Vapou mm Hg		ure at 2 Meth		Vapo mm Hg	our press	sure at 50°C Method
old water Partition coefficient: n-octanol/ water		Not soluble Not applicable.		kPa	1	od	mm	-1	sure at 50°C Method
cold water Partition coefficient: n-octanol/ water	:	Not soluble Not applicable.	mm Hg <12.00102	<b>kPa</b> <1.6	Metho DIN EN 13016-2	<b>od</b>	mm Hg	kPa	Method
cold water Partition coefficient: n-octanol/ vater /apour pressure	:	Not soluble Not applicable. Ingredient name Imethylpropan-1-ol Highest known value	mm Hg <12.00102	<b>kPa</b> <1.6	Metho DIN EN 13016-2	<b>od</b>	mm Hg	kPa	Method
cold water Partition coefficient: n-octanol/ vater /apour pressure Evaporation rate Relative density	:	Not soluble Not applicable. Ingredient name methylpropan-1-ol Highest known value acetate	mm Hg <12.00102 : 0.77 (xyl	kPa <1.6 ene) We	DIN EN 13016-2 eighted	od 2 averaç	mm Hg ge: 0.73c	kPa compared	Method
cold water Partition coefficient: n-octanol/ water /apour pressure Evaporation rate Relative density /apour density	: : : : : : : : : : : : : : : : : : : :	Not soluble Not applicable. Ingredient name Imethylpropan-1-ol Highest known value acetate	mm Hg <12.00102 : 0.77 (xyl : 3.7 (Air not explos	kPa <1.6 ene) We = 1) (xyl ive, but t	Metho DIN EN 13016-2 eighted	od 2 averaç Weight	mm Hg ge: 0.73c	kPa compared	Method I with butyl (Air = 1)
cold water Partition coefficient: n-octanol/ vater /apour pressure Evaporation rate Relative density /apour density Explosive properties	: : : : : :	Not soluble Not applicable. Ingredient name Ingredient name In	mm Hg <12.00102 : 0.77 (xyl : 3.7 (Air not explos ir is possil	kPa <1.6 ene) We = 1) (xyl ive, but t ole.	Metho DIN EN 13016-2 eighted lene). \	od 2 averaç Weight	mm Hg ge: 0.73c	kPa compared	Method I with butyl (Air = 1)
cold water Partition coefficient: n-octanol/ water /apour pressure	: : : : : :	Not soluble Not applicable. Ingredient name Imethylpropan-1-ol Highest known value acetate Imethylpropan-1-ol Highest known value The product itself is r vapour or dust with a	mm Hg <12.00102 : 0.77 (xyl : 3.7 (Air not explos ir is possil	kPa <1.6 ene) We = 1) (xyl ive, but t ole.	Metho DIN EN 13016-2 eighted lene). \	od 2 averaç Weight	mm Hg ge: 0.73c	kPa compared	Method I with butyl (Air = 1)

No additional information.

Code	: 00445417	Date of issue/Date of revision	: 30 May 2024
SIGMASHIEL	D 880 BASE REDBROWN		

## **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 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
eaction product: bisphenol-A- (epichlorohydrin); epoxy resin	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
51 1	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	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists		U U	
octadecanoic acid and				
1,3-phenylenedimethanamine				

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

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary	
--------------------	--

Skin

: There are no data available on the mixture itself.

English (GB) United Arab Emirates

Code : 00445417 Date of issue/Date of revision : 30 May 2024

SIGMASHIELD 880 BASE REDBROWN

## **SECTION 11: Toxicological information**

Eyes

Respiratory

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

**Sensitisation** 

Product/ingredient name	Route of exposure	Species	Result
resin (number average molecular weight ≤ 700)	skin	Mouse	Sensitising

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

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

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Produ	ict/ingredient name	Result
xylene		ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health ef	ffects	
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	e physical, chemical and toxicologica	al characteristics
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include irritation redness dryness cracking	e the following:

Conforms to Regulation (EC) 2020/878	Nc	. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
Code : 00445417		Date of issue/Date of revision : 30 May 2024
SIGMASHIELD 880 BASE RED	DΒ	ROWN
<b>SECTION 11: Toxicol</b>	0	gical information
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>S</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	Suspected of causing genetic defects.
Reproductive toxicity	:	No known significant effects or critical hazards.
Other information	:	Not available.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

#### 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
epoxy resin	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
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours

**Conclusion/Summary** 

: There are no data available on the mixture itself.

### 12.2 Persistence and degradability

2020/010		
Code	: 00445417	Date of issue/Date of revision

: 30 May 2024

SIGMASHIELD 880 BASE REDBROWN

## **SECTION 12: Ecological information**

Product/ingredient name	Test	Result	Dos	se	Inoculum	
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	OECD 301F	5 % - 28 days	-		-	
Conclusion/Summary	There are no dat	a available on the mixtu	re itself.			
Product/ingredient name		Aquatic half-life	Photolysis	Bi	Biodegradability	
eaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)		-	-	No	t readily	
xylene 2,3-epoxypropyl neodecanoate		-	-		adily t readily	

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<pre> Feaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)</pre>	2.64 to 3.78	31	Low
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
2,3-epoxypropyl neodecanoate	4.4	-	High

### 12.4 Mobility in soil

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

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Peaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	No	N/A	No	No	No	N/A	No
xylene	No	N/A	No	No	No	N/A	No
Époxy Resin (700 <mw &lt;=1100)</mw 	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
2-methylpropan-1-ol	No	N/A	N/A	No	Ň/A	N/A	N/A
2,3-epoxypropyl neodecanoate	No	N/A	N/A	No	N/A	N/A	N/A
1,3-bis[12-hydroxy- octadecamide-N-methylene]- benzene	No	N/A	N/A	No	N/A	N/A	N/A

### **12.6 Endocrine disrupting properties**

Not available.

### 12.7 Other adverse effects

Code : 00445417

SIGMASHIELD 880 BASE REDBROWN

Date of issue/Date of revision : 3

: 30 May 2024

## **SECTION 12: Ecological information**

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

: Yes.

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

## **13.1 Waste treatment methods**

### Product

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sever unless fully compliant with the requirements of all authorities with iurisdiction
	the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

## Hazardous waste

## European waste catalogue (EWC)

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

### **Packaging**

uonuging				
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 whe recycling is not feasible.			
Type of packaging		European waste catalogue (EWC)		
Container	15 01 06	mixed packaging		
Special precautions	taken when ha Empty containe residues may c Do not cut, wel	and its container must be disposed of in a safe way. Care should be indling emptied containers that have not been cleaned or rinsed out. ers or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container. Id or grind used containers unless they have been cleaned thoroughly id dispersal of spilt material and runoff and contact with soil, waterways, vers.		

## **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	III		Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

## Additional information

ADR/RID : None identified.

Code :	00445417	Date of issue/Date o	of revision : 30 May 2024
SIGMASHIELD	880 BASE REDE	ROWN	
SECTION '	14: Transpo	t information	
Tunnel code	: (D/E)		
IMDG	: None identi	ed.	
ΙΑΤΑ	: None identi	ed.	
14.6 Special pr user	recautions for	<b>Transport within user's premises:</b> always tranupright and secure. Ensure that persons transport event of an accident or spillage.	•
14.7 Transport according to IN instruments		Not applicable.	

## 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

Intrinsic property	Ingredient name	Status		Date of revision
₩́́РvB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

**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.

: Not applicable. **Explosive precursors** 

Ozone depleting substances (1005/2009/EU)

Not listed.

**15.2 Chemical safety** 

: No Chemical Safety Assessment has been carried out.

assessment

## **SECTION 16: Other information**

Indicates information that h	nas changed from previously 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	

Code : 00445417		Date of issue/Date of revision : 30 May 2024
SIGMASHIELD 880 BASE RE	DBROWN	
SECTION 16: Other	information	
	H304May be fatalH312Harmful in coH315Causes skinH317May cause aH318Causes serioH319Causes serioH332Harmful if infH335May cause re	n allergic skin reaction. us eye damage. us eye irritation. aled. spiratory irritation.
	H341 Suspected of H411 Toxic to aqua H412 Harmful to ac	rowsiness or dizziness. Foausing genetic defects. atic life with long lasting effects. quatic life with long lasting effects. ng lasting harmful effects to aquatic life.
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 SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u> Date of issue/ Date of revision	: 30 May 2024	
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Prepared by	: EHS	
Version	: 2	

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