# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 18 December 2023 Version





: 1.02

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

1.1 Product identifier	
Product name	SIGMASHIELD 880 BASE RAL 9010
Product code	: 00442494
Other means of identification	
Not available.	
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Product use	Professional applications, Used by spraying.
Use of the substance/ mixture	Coating.
Uses advised against	Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of th	e safety data sheet
Pittsburgh Paints Nigeria Limite	
Nigeria	o, Badagry Expressway, Orile Iganmu, Lagos
Tel: 00 234 (0) 8138672483	
e-mail address of person responsible for this SDS	PS.ACEMEA@ppg.com
1.4 Emergency telephone	00234 127 173 85

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

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

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

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

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

2.2 Label elements Hazard pictograms :



Code : 00442494

not result in classification

SIGMASHIELD 880 BASE RAL 9010

Date of issue/Date of revision

: 18 December 2023

**SECTION 2: Hazards identification** 

Signal word	1	Warning
Hazard statements	:	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	:	Get medical advice/attention if you feel unwell.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P260, P314, P501
Hazardous ingredients	:	bis-[4-(2,3-epoxipropoxi)phenyl]propaneEpoxy Resin (700 <mw<=1100)< td="">Phenol, methylstyrenatedcrystalline silica, respirable powder (&lt;10 microns)</mw<=1100)<>
Supplemental label elements	:	Contains epoxy constituents. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<u>ts</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	:	Prolonged or repeated contact may dry skin and cause irritation.

Code

: 00442494

Date of issue/Date of revision

: 18 December 2023

SIGMASHIELD 880 BASE RAL 9010

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

# **3.2 Mixtures**

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ቓí́s-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥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	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]
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]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	-	[1] [2]
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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
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.		

English (GB)

Code : 00442494

Date of issue/Date of revision

: 18 December 2023

SIGMASHIELD 880 BASE RAL 9010

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

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains  $\geq$  1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

# SUB codes represent substances without registered CAS Numbers.

# SECTION 4: First aid measures

#### 4.1 Description of first aid measures : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids Eye contact 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.

# 4.2 Most important symptoms and effects, both acute and delayed

Potential acute healt	<u>n effects</u>
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	/symptoms
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 ir	nmediate 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			
SIGMASHIE	LD 880 BASE RAL 9010		
Code	: 00442494	Date of issue/Date of revision	: 18 December 2023

	-
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 f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

err i ereenai preedaarene, pre		state equipment and entry 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	со	ntainment 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.

Code: 00442494Date of issue/Date of revision: 18 December 2023

SIGMASHIELD 880 BASE RAL 9010

# **SECTION 6: Accidental release measures**

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

# **SECTION 7: Handling and storage**

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

## 7.1 Precautions for safe handling

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

**7.3 Specific end use(s)** See Section 1.2 for Identified uses.

Code<th: 00442494</th>Date of issue/Date of revision: 18 December 2023SIGMASHIELD 880 BASE RAL 9010

# **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/ingredier	nt name	Exposure limit values
<b>x</b> ylene		EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] 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, 1/2023). TWA: 152 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
crystalline silica, respirable po	owder (<10 microns)	ACGIH TLV (United States, 1/2023). [Silica, crystalline]
		TWA: 0.025 mg/m³ 8 hours. Form: Respirable
ethylbenzene		EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
1,3-bis[12-hydroxy-octadecan benzene	nide-N-methylene]-	<b>ACGIH TLV (United States).</b> TWA: 3 mg/m <sup>3</sup> , (Respirable fraction)
	strategy) Europe application and u biological agents requirements for agents) Referen	hemical agents for comparison with limit values and measurement ean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and ) European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical ce to national guidance documents for methods for the determination ostances will also be required.
3.2 Exposure controls		
Appropriate engineering controls	other engineering recommended of	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment.
Individual protection measu	res	
	N/aab banda far	
Hygiene measures	eating, smoking a Appropriate tech Contaminated wo contaminated clo	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.
Eye/face protection Skin protection	eating, smoking a Appropriate tech Contaminated wo contaminated clo	and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.

Code : 00442494	Date of issue/Date of revision	: 18 December 2023
SIGMASHIELD 880 BASE RAL 9010		

	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.
<b>Respiratory protection</b>	
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

	English (G	3)	Nige	eria 8/16
Decomposition temperature pH Viscosity	<ul> <li>Stable under recommended</li> <li>Not applicable. insoluble in v</li> <li>Kinematic (room temperatur Kinematic (40°C): &gt;21 mm²/</li> </ul>	vater. e): >400 mm²	-	tions (see Section 7).
		276	528.8	
Auto-ignition temperature	: Ingredient name	°C	°F	Method
Flash point	: Closed cup: 37°C		<u>.</u>	
Upper/lower flammability or explosive limits	: Greatest known range: Lowe	er: 1.7% Upp	er: 10.9% (2-n	nethylpropan-1-ol)
Flammability	: Not available.			
Initial boiling point and boiling range	: 231.10 0			
Melting point/freezing point	<ul> <li>May start to solidify at the fo based on data for the followi Weighted average: -24.91°C</li> <li>&gt;37.78°C</li> </ul>	ng ingredient		
Odour threshold	: Not available.			
Odour	: Aromatic. [Slight]			
Colour	: White.			
Physical state	: Liquid.			
<u>Appearance</u>				

Code : 00442494			Date of	issue/l	Date of revisio	on	: 18 D	ecember 2023
SIGMASHIELD 880 BASE RAL	9010							
SECTION 9: Physical	and	chemical pro	perties					
Viscosity	:	> 100 s (ISO 6mm)						
Solubility(ies)	:							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octar water	nol/:	Not applicable.						
Vapour pressure	:		Vapour Pressure at 20°C		Vapour pressure at 50°C			
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (etł	nylbenzo	ene) Weighted	average	e: 0.74co	mpared with
Relative density	:	1.6						
Vapour density	:	Highest known value Weighted average: 9			bis-[4-(2,3-epo	xipropox	i)phenyl]	propane).
Explosive properties		The product itself is	•	,	the formation	of an exp	olosible m	nixture of
		vapour or dust with a						

## 9.2 Other information

Particle characteristics

Median particle size

No additional information.

<b>SECTION 10: Stabilit</b>	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 metal oxide/oxides				

: Not applicable.

Code

: 00442494

Date of issue/Date of revision

: 18 December 2023

SIGMASHIELD 880 BASE RAL 9010

# **SECTION 11: Toxicological information**

# **11.1 Information on toxicological effects**

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/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	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists			
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
s-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

# Conclusion/Summary

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

Eyes

: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

# Sensitisation

Product/ingredient name	Route of exposure	Species	Result
ቓís-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising

	English (GB)	Nigeria	10/16
Conclusion/Summary	: 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>Carcinogenicity</b>			
Conclusion/Summary	: There are no data available on the mixture itself.		
<b>Mutagenicity</b>			
Respiratory	: There are no data available on the mixture itself.		
Pospiratory	: There are no data available on the mixture itself.		
Skin	: There are no data available on the mixture itself.		
<b>Conclusion/Summary</b>			

#### 

Category	Route of exposure	Target organs
Category 3	-	Respiratory tract irritation
Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
	Category 3 Category 3	exposureCategory 3 Category 3 -

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Quartz (SiO2)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

## Aspiration hazard

Product/in	ngredient name	Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effect	<u>s</u>	
Inhalation	: No known significant effects or criti	cal hazards.
Ingestion	: No known significant effects or criti	cal 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 phy	ysical, chemical and toxicological cl	haracteristics
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include the irritation redness dryness cracking	
Eye contact	: Adverse symptoms may include the pain or irritation watering redness	e following:
Delayed and immediate effect	cts as well as chronic effects from s	hort and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health effe Not available.	ects	

Code: 00442494Date of issue/Date of revision: 18 December 2023

SIGMASHIELD 880 BASE RAL 9010

# **SECTION 11: Toxicological information**

<b>Conclusion/Summary</b>	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: Suspected of causing genetic defects.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

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

## 11.2 Information on other hazards

## **11.2.1 Endocrine disrupting properties**

Not available.

## **11.2.2 Other information**

Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
pís-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
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**

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 da	ys -	-
Conclusion/Summary : There are no data available on the mixture itself.				
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability
sis-[4-(2,3-epoxipropoxi)phen xylene 2,3-epoxypropyl neodecanoat ethylbenzene			- - - -	Not readily Readily Not readily Readily

English	(GB)
---------	------

Code : 00442494 Date of issue/Date of revision : 18 December 2023 SIGMASHIELD 880 BASE RAL 9010

# **SECTION 12: Ecological information**

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
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
ethylbenzene	3.6	79.43	Low

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

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

Hazardous waste

## European waste catalogue (EWC)

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

# 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

English	(GB)
---------	------

- Code
- : 00442494

Date of issue/Date of revision

: 18 December 2023

SIGMASHIELD 880 BASE RAL 9010

# **SECTION 13: Disposal considerations**

Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
---------------------	---

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number 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		Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

## **Additional information**

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

**14.6 Special precautions for** : **Transport within user's premises:** always transport in closed containers that are user upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

# **SECTION 15: Regulatory information**

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

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Code	: 00442494		Date of issue/Date of revision	: 18 December 2023
SIGMASHIE	LD 880 BASE RA	AL 9010		
SECTIO	N 15: Regula	atory information		
on the m placing o and use o dangerou	/II - Restrictions anufacture, on the market of certain us substances, and articles	: Not applicable.		
Other nation	onal and interna	tional regulations.		
	e precursors pleting substand	: Not applicable.		
Not listed				
15.2 Chem assessmer		: No Chemical Safety A	ssessment has been carried out.	
SECTIO	N 16: Other	information		
Indicates	s information that	has changed from previou	sly issued version.	
Abbreviatio acronyms	ons and	1272/2008] DNEL = Derived No E EUH statement = CLI	Labelling and Packaging Regulation [Reg Effect Level P-specific Hazard statement D Effect Concentration	gulation (EC) No.
Full text of statements	abbreviated H	H226FlammableH304May be fataH312Harmful inH315Causes skiH317May causeH318Causes serH319Causes serH32Harmful if inH335May causeH336May causeH341SuspectedH373May causeH411Toxic to aqH413May cause	an allergic skin reaction. rious eye damage. rious eye irritation. nhaled. respiratory irritation. drowsiness or dizziness. of causing genetic defects. mage to organs through prolonged or rep damage to organs through prolonged or uatic life with long lasting effects. aquatic life with long lasting effects. long lasting harmful effects to aquatic life	repeated exposure.
Full text of [CLP/GHS]	classifications	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Muta. 2 Skin Irrit. 2 Skin Sens. 1 STOT RE 1	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRI SERIOUS EYE DAMAGE/EYE IRI FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category GERM CELL MUTAGENICITY - C SKIN CORROSION/IRRITATION SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2	TIC HAZARD - Category 3 TIC HAZARD - Category 4 RITATION - Category 1 RITATION - Category 2 / 2 / 3 Category 2 - Category 2 / 1 KICITY - REPEATED

Code : 00442494	Date of issue/Date of revision	: 18 December 2023			
SIGMASHIELD 880 BASE RAL 9010					

# **SECTION 16: Other information**

EXPOSURE - Category 3

<u>History</u>	
Date of issue/ Date of revision	: 18 December 2023
Date of previous issue	: 11 August 2022
Prepared by	: EHS
Version	: 1.02

## <u>Disclaimer</u>

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

English (GB)	Nigeria	16/16