# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 22 April 2024

Version

: 2

pPg	

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

Product name: SIGMASHIELD 880 BASE OFFWHITEProduct code: 000001189750Other means of identification	Product name
Other means of identification	
	Product code
00446820	Other means of identification
	00446820
1.2 Relevant identified uses of the substance or mixture and uses advised against	1.2 Relevant identified uses of
Product use : Professional applications, Used by spraying.	Product use
Use of the substance/ : Coating. mixture	
Uses advised against : Product is not intended, labelled or packaged for consumer use.	Uses advised against
1.3 Details of the supplier of the safety data sheet	1.3 Details of the supplier of
Sigma Coatings PTY	
9 Arnold Street, Alrode, Alberton, Gauteng	,
South Africa	South Africa
Tel: 0027 11 389 4800	Tel: 0027 11 389 4800
e-mail address of person : PS.ACEMEA@ppg.com responsible for this SDS	
1.4 Emergency telephone : +27 51 444 2134	1.4 Emergency telephone
number	

# **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 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 : 000001189750	Date of issue/Date of revision : 22 April 20	24	
SIGMASHIELD 880 BASE OF	/HITE		
SECTION 2: Hazards identification			
Hazard pictograms			
Signal word	Warning		
Hazard statements	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.		
Precautionary statements			
Prevention	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid re the environment. Avoid breathing vapour.		
Response	Take off contaminated clothing and wash it before reuse.		
Storage	Not applicable.		
Disposal	Dispose of contents and container in accordance with all local, regional, nationa international regulations. P280, P210, P273, P261, P362 + P364, P501	l and	
Hazardous ingredients	ørs-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700 <mw<=1100) Phenol, methylstyrenated oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</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 requiren	<u>nts</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 contains substances that are assessed to be a PBT or a vPvB, refe Section 3.2.	er to	
Other hazards which do	Prolonged or repeated contact may dry skin and cause irritation.		

not result in classification

Code

: 000001189750

Date of issue/Date of revision

: 22 April 2024

SIGMASHIELD 880 BASE OFFWHITE

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

#### 3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ቓís-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	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	≥1.0 - ≤5.0	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]
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[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>

**V** 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

English (GB)

Code

: 000001189750 SIGMASHIELD 880 BASE OFFWHITE Date of issue/Date of revision

: 22 April 2024

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

This mixture contains ≥ 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 m	easures
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.

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

Potential acute health	<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 in	nmediate medical attention and special treatment needed
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>

**Specific treatments** : No specific treatment.

 Code
 <th::000001189750</th>
 Date of issue/Date of revision
 : 22 April 2024

 SIGMASHIELD 880 BASE OFFWHITE

## **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 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 nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective 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

 Code
 <th: 000001189750</th>
 Date of issue/Date of revision
 : 22 April 2024

SIGMASHIELD 880 BASE OFFWHITE

#### **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 spill 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. 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. 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 : 000001189750
  - Date of issue/Date of revision: 22 April 2024

SIGMASHIELD 880 BASE OFFWHITE

# **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
✓alc , not containing asbestiform fibres	DOL OEL (South Africa, 3/2021).
	TWA: 4 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
titanium dioxide	DOL OEL (South Africa, 3/2021).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
barium sulfate	DOL OEL (South Africa, 3/2021).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
xylene	DOL OEL (South Africa, 3/2021). [xylene, o-, m-, p- or mixed
	isomers] Absorbed through skin.
	TWA: 200 ppm 8 hours.
	STEL: 300 ppm 15 minutes.
aluminium oxide	DOL OEL (South Africa, 3/2021). [aluminium metal and insoluble
	compounds as Al]
	TWA: 2 mg/m <sup>3</sup> , (as Al) 8 hours. Form: Respirable fraction
2-methylpropan-1-ol	DOL OEL (South Africa, 3/2021).
	TWA: 100 ppm 8 hours.
12-hydroxyoctadecanoic acid, reaction products	ACGIH TLV (United States).
with 1,3-benzenedimethanamine and	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle
hexamethylenediamine	TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form: Respirable particle

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
	<b>DOL BEI (South Africa, 3/2021) [xylenes]</b> BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.

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.
8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or 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	res
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.

English (GB)	South Africa	7/16

2020/878			
Code : 000001189750	Date	of issue/Date of revision	: 22 April 2024
SIGMASHIELD 880 BASE OFF	VHITE		
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles.		
Hand protection	: Chemical-resistant, impervious g worn at all times when handling necessary. Considering the para during use that the gloves are st noted that the time to breakthrou glove manufacturers. In the cas protection time of the gloves can frequently repeated contact may (breakthrough time greater than When only brief contact is expect (breakthrough time greater than The user must check that the fin product is the most appropriate a as included in the user's risk ass	chemical products if a risk ass ameters specified by the glove ill retaining their protective pro igh for any glove material may e of mixtures, consisting of se not be accurately estimated. occur, a glove with a protection 480 minutes according to EN sted, a glove with a protection 30 minutes according to EN 3 al choice of type of glove selec- and takes into account the par	sessment indicates this is e manufacturer, check perties. It should be be different for different veral substances, the When prolonged or on class of 6 374) is recommended. class of 2 or higher 74) is recommended. cted for handling this
	: butyl rubber		
Body protection	Personal protective equipment for performed and the risks involved handling this product. When the static protective clothing. For the should include anti-static overalls 1149 for further information on n	and should be approved by a re is a risk of ignition from state greatest protection from state s, boots and gloves. Refer to	a specialist before tic electricity, wear anti- ic discharges, clothing European Standard EN
Other skin protection	Appropriate footwear and any ac based on the task being perform specialist before handling this pr	ed and the risks involved and	
Respiratory protection	Respirator selection must be bas hazards of the product and the s are exposed to concentrations a certified respirators. Use a prop with an approved standard if a ri- respirator conforming to EN140. filter P3	afe working limits of the select bove the exposure limit, they r erly fitted, air-purifying or air-fe sk assessment indicates this is	ted respirator. If workers must use appropriate, ed respirator complying s necessary. Wear a
Environmental exposure controls	: Emissions from ventilation or wo they comply with the requiremen cases, fume scrubbers, filters or will be necessary to reduce emis	ts of environmental protection engineering modifications to t	legislation. In some

## **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 (CD) Couth Africa 0/46
Flash point	: Closed cup: 37°C
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)
Flammability	: Not available.
Initial boiling point and boiling range	: >37.78°C
Melting point/freezing point	: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: -18.32°C (-1°F)
Odour threshold	: Not available.
Odour	: Aromatic. [Slight]
Colour	: Off-white.
Physical state	: Liquid.
<u>Appearance</u>	

English (GB)

code : 000001189750			Date of	issue/[	Date of revis	ion	: 22 A	pril 2024
GMASHIELD 880 BASE OFFW	HIT	E						
<b>SECTION 9: Physical a</b>	nd	chemical prop	perties					
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		2-methylpropan-1-ol		415	779			
Decomposition temperature	:	Stable under recomr	nended st	orage a	nd handling	conditions	s (see Sec	tion 7).
ρΗ	:	Not applicable. insol	uble in wa	ter.	Ū		,	,
Viscosity	:	Kinematic (room ten		: >400 r	mm²/s			
		Kinematic (40°C): >2	21 mm²/s					
Viscosity	-	> 100 s (ISO 6mm)						
Solubility(ies)		1						
Media		Result						
incula								
cold water		Not soluble						
cold water Partition coefficient: n-octano water	I/ : :	Not soluble	Vanoi		ouro at 20°C	Var		sure at 50°C
cold water Partition coefficient: n-octano water	I/ : :	Not soluble Not applicable.		i	sure at 20°C	Var		sure at 50°C
cold water Partition coefficient: n-octano water	I/ : :	Not soluble	Vapou mm Hg	i	sure at 20°C Method	Var mm Hg	oour press	sure at 50°C Method
cold water Partition coefficient: n-octano water	I/ : :	Not soluble Not applicable.		kPa	-	mm		1
cold water Partition coefficient: n-octano water Vapour pressure	:	Not soluble Not applicable.		<b>kPa</b> <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
cold water Partition coefficient: n-octano water Vapour pressure Evaporation rate	:	Not soluble         Not applicable.         Ingredient name         2-methylpropan-1-ol         Highest known value		<b>kPa</b> <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
cold water Partition coefficient: n-octano water Vapour pressure Evaporation rate Relative density	:	Not soluble         Not applicable.         Ingredient name         2-methylpropan-1-ol         Highest known value         acetate         1.64         Highest known value	mm Hg <12.00102 e: 0.77 (xy e: 11.7 (A	<b>kPa</b> <1.6 lene) W	Method DIN EN 13016-2 /eighted ave	mm Hg rage: 0.72	kPa 2compared	Method d with butyl
cold water Partition coefficient: n-octano water Vapour pressure Evaporation rate Relative density Vapour density		Not soluble         Not applicable.         Ingredient name         2-methylpropan-1-ol         Highest known value         acetate         1.64	mm Hg <12.00102 e: 0.77 (xy e: 11.7 (Ai 9.45 (Air = not explos	<b>kPa</b> <1.6 lene) W ir = 1) ( = 1) sive, but	Method DIN EN 13016-2 /eighted ave bis-[4-(2,3-e	rage: 0.72	kPa 2compared xi)phenyl]	Method d with butyl propane).
cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	: : : :	Not soluble         Not applicable.         Ingredient name         2-methylpropan-1-ol         Highest known value         acetate         1.64         Highest known value         Weighted average: S         The product itself is	mm Hg <12.00102 e: 0.77 (xy e: 11.7 (Ai 9.45 (Air = not explos air is possi	<b>kPa</b> <1.6 lene) W ir = 1) ( = 1) sive, but ble.	Method DIN EN 13016-2 /eighted ave bis-[4-(2,3-e the formatio	rage: 0.72	kPa 2compared xi)phenyl]	Method d with butyl propane).
	: : : :	Not soluble         Not applicable.         Ingredient name         2-methylpropan-1-ol         Highest known value         acetate         1.64         Highest known value         Weighted average: S         The product itself is         vapour or dust with a	mm Hg <12.00102 e: 0.77 (xy e: 11.7 (Ai 9.45 (Air = not explos air is possi	<b>kPa</b> <1.6 lene) W ir = 1) ( = 1) sive, but ble.	Method DIN EN 13016-2 /eighted ave bis-[4-(2,3-e the formatio	rage: 0.72	kPa 2compared xi)phenyl]	Method d with butyl propane).

9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

		English (GB)	South Africa	9/16
10.6 Hazardous decomposition products	:	Depending on conditions, decomposition proc carbon oxides nitrogen oxides sulfur oxides oxides		
10.5 Incompatible materials	:	Keep away from the following materials to pre oxidising agents, strong alkalis, strong acids.	vent strong exothermic reactions:	
10.4 Conditions to avoid	:	When exposed to high temperatures may pro Refer to protective measures listed in sections		oducts.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use,	nazardous reactions will not occur.	
10.2 Chemical stability	:	The product is stable.		
10.1 Reactivity	1	No specific test data related to reactivity available	able for this product or its ingredien	nts.

Code : 000001189750

Date of issue/Date of revision

: 22 April 2024

SIGMASHIELD 880 BASE OFFWHITE

# **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[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	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine and hexamethylenediamine	mists		Ŭ	
	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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae				
	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 Eyes : There are no data available on the mixture itself.

: 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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitising

<b>Conclusion/Summary</b>		
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>		

Conforms to Regulation (EC) 2020/878	No. 1907/2006 (REACH), An	inex II, as	amer	nded by Commiss	ion Regulation (EU)
Code : 000001189750	)	Date of i	ssue/	Date of revision	: 22 April 2024
SIGMASHIELD 880 BASE OF	FWHITE				
SECTION 11: Toxico	logical information				
Conclusion/Summary	: There are no data availab	ole on the i	mixtur	re itself.	
Specific target organ toxicit	<u>ty (single exposure)</u>			T	
Product/ing	redient name	Categ	gory	Route of exposure	Target organs
xylene 2-methylpropan-1-ol			ory 3 ory 3 ory 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects
Specific target organ toxicit	<u>ty (repeated exposure)</u>				
Product/ing	redient name	Categ	gory	Route of exposure	Target organs
-hydroxyoctadecanoic acid 1,3-benzenedimethanamine		Catego	ory 2	inhalation	lungs
Aspiration hazard		I			
Product/i	ingredient name				Result
xylene			ASP	IRATION HAZARD	- Category 1
Information on likely routes of exposure	: Not available.				
Potential acute health effec	<u>ts</u>				
Inhalation	: No known significant effe	cts or critio	cal ha	zards.	
Ingestion	: No known significant effe	cts or critio	cal ha	zards.	
Skin contact	: Causes skin irritation. De	efatting to	the sk	in. May cause an	allergic skin reaction.
Eye contact	: Causes serious eye irritat	tion.			
Symptoms related to the ph	nysical, chemical and toxico	logical ch	naract	teristics	
Inhalation	: No specific data.				
Ingestion	: No specific data.				
Skin contact Eye contact	<ul> <li>Adverse symptoms may i irritation redness dryness cracking</li> <li>Adverse symptoms may i</li> </ul>				
	pain or irritation watering redness			5	
Delayed and immediate effe	ects as well as chronic effec	ts from s	hort a	and long-term exp	osure
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Long term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Potential chronic health effe	<u>ects</u>				
Conclusion/Summary	: Not available.				

Code : 000001189750

Date of issue/Date of revision : 22

: 22 April 2024

SIGMASHIELD 880 BASE OFFWHITE

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

General	<ul> <li>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.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh	Daphnia - <i>daphnia</i>	48 hours
	water	magna	
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and	_	Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - Daphnia	48 hours
	_	magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
	_	mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
	Ū Ū	Pseudokirchneriella	
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia</i>	21 days
		magna (Water flea)	-

Conclusion/Summary

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<ul> <li>hydroxyoctadecanoic acid, reaction products with</li> <li>1,3-benzenedimethanamine and hexamethylenediamine</li> </ul>	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

Code	: 000001189750	Date of issue/Date of revision	: 22 April 2024
SIGMASHIEL	D 880 BASE OFFWHITE		

# **SECTION 12: Ecological information**

•			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi)phenyl]propane xylene	-	-	Not readily Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	-	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	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
pis-[4-(2,3-epoxipropoxi) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
xylene	No	N/A	No	No	No	N/A	No
Epoxy 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
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	No	N/A	N/A	No	N/A	N/A	N/A

#### 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

<u>Product</u>	
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.

Code : 000001189750

Date of issue/Date of revision

: 22 April 2024

SIGMASHIELD 880 BASE OFFWHITE

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

•	
Hazardous waste	: Yes.
European waste catalog	j <u>ue (EWC)</u>
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways

# **SECTION 14: Transport information**

drains and sewers.

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш		
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.
IATA	: None identified.
14.6 Special preduser	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Date of issue/Date of revision

: 22 April 2024

- Code : 000001189750
- SIGMASHIELD 880 BASE OFFWHITE

### **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
₩PvB	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.

Explosive precursors	: Not applicable.
Ozone depleting substand	<u>ces (1005/2009/EU)</u>
Notlisted	

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

# assessment

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: 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	
Full text of abbreviated H statements	<ul> <li>Flammable liquid and vapour.</li> <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>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> <li>H413 May cause long lasting harmful effects to aquatic life.</li> </ul>	

#### Full text of classifications [CLP/GHS]

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
Code : 0000011897	750	Date of issue/Date of revision : 22 April 2024		
SIGMASHIELD 880 BASE OFFWHITE				
SECTION 16: Other	r information			
	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
<u>History</u>				
Date of issue/ Date of revision	: 22 April 2024			
Date of previous issue	: 4 April 2024			
Prepared by	: EHS			
Version	: 2			

#### <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.