SAFETY DATA SHEET

Date of issue/Date of revision

: 18 April 2024

Version

: 2

South Africa

PPG

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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 GF BASE OFFWHITE
Product code	: 000001199245
Other means of identificati	on
00472037; 00472039; 00475	462
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	the safety data sheet
Sigma Coatings PTY 9 Arnold Street,	
Alrode, Alberton, Gauteng	
South Africa 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
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

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SECTION 2: Hazards	identification
Hazard pictograms	
	: 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 release to 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, national and international regulations. P280, P210, P273, P261, P362 + P364, P501
Hazardous ingredients	: bis-[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 requirem	<u>ents</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, refer to Section 3.2.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₱is-[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 <=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 See Section 16 for the full text of the H statements declared	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]

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.

1 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

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SECTION 3: Composition/information on ingredients

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.

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 e	ffects
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>imptoms</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	nediate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefi	ahting measures

SECTION 5: Firefighting measures

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

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SECTION 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture					
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.				
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 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.

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SECTION 6: Accidental release measures

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.

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.

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 Afric	DOL OEL (South Africa, 3/2021).	
	TWA: 4 mg/m ³ 8 hour	s. Form: Respirable fraction	
titanium dioxide		DOL OEL (South Africa, 3/2021).	
	TWA: 10 mg/m ³ 8 hou		
barium sulfate	DOL OEL (South Africa, 3/2021).		
		urs. Form: Inhalable fraction	
xylene	DOL OEL (South Africa, 3/2021). [xylene, o-, m-, p- or mixed		
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	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 ³ , (as AI) 8 hours. Form: Respirable fraction
2-methylpropan-1-ol	DOL OEL (South Africa, 3/2021).
	TWA: 100 ppm 8 hours.
glass, oxide, chemicals	DOL OEL (South Africa, 3/2021). [synthetic vitreous fibres [SVF]:
	continuous filament glass fibres]
	TWA: 2 f/ml 8 hours. Form: Respirable fibres: length> 5 µm; aspect
	ratio \ge 3:1 as determined by the membrane filter method at 400-450X
	magnification (4mm objective), using phase-contrast illumination.
	TWA: 10 mg/m³ 8 hours.
12-hydroxyoctadecanoic acid, reaction produc	
with 1,3-benzenedimethanamine and	TWA: 10 mg/m ³ Form: Inhalable particle
hexamethylenediamine	TWA: 3 mg/m ³ , (inhalable dust) Form: Respirable particle

Biological exposure indices

Product/ingredier	nt name	Exposure indices				
xylene		DOL BEI (South Afric BEI: 1.5 g/g creatinin end of shift.	c a, 3/2021) [xylenes] e, methylhippuric acid [in urine]. Sa	ampling time:		
Recommended monitoring procedures	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	 (Workplace atmosphe) hemical agents for comban Standard EN 14042 se of procedures for the) European Standard E the performance of pro 	g standards, such as the following: res - Guidance for the assessment parison with limit values and meas (Workplace atmospheres - Guide e assessment of exposure to chem N 482 (Workplace atmospheres - cedures for the measurement of ch documents for methods for the de quired.	of exposure urement for the lical and General nemical		
8.2 Exposure controls						
Appropriate engineering controls	other engineering recommended or	controls to keep worker statutory limits. The e oncentrations below any	process enclosures, local exhaust er exposure to airborne contaminar ngineering controls also need to ke / lower explosive limits. Use explos	nts below any ep gas,		
Individual protection measur	<u>'es</u>					
Hygiene measures	eating, smoking a Appropriate tech Contaminated wo contaminated clo	and using the lavatory a niques should be used t ork clothing should not l	phly after handling chemical product and at the end of the working period to remove potentially contaminated be allowed out of the workplace. M Ensure that eyewash stations and s ation.	l. Eclothing. ∕ash		
Eye/face protection Skin protection	: Chemical splash	goggles.				
Hand protection	worn at all times necessary. Cons during use that th noted that the tim glove manufactur protection time of	when handling chemica sidering the parameters he gloves are still retain he to breakthrough for a rers. In the case of mix f the gloves cannot be a	omplying with an approved standar al products if a risk assessment ind specified by the glove manufacture ing their protective properties. It sh iny glove material may be different tures, consisting of several substan accurately estimated. When prolon a glove with a protection class of 6	icates this is er, check nould be for different nces, the		
		English (GB)	South Africa	7/16		

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	Ŵ (Ľ T pi	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 roduct is the most appropriate and takes into account the particular conditions of use, s included in the user's risk assessment.
Gloves	: bi	utyl rubber
Body protection	p h st sl	ersonal protective equipment for the body should be selected based on the task being erformed and the risks involved and should be approved by a specialist before andling this product. When there is a risk of ignition from static electricity, wear anti- tatic protective clothing. For the greatest protection from static discharges, clothing nould include anti-static overalls, boots and gloves. Refer to European Standard EN 149 for further information on material and design requirements and test methods.
Other skin protection	b	ppropriate footwear and any additional skin protection measures should be selected ased on the task being performed and the risks involved and should be approved by a pecialist before handling this product.
Respiratory protection	ha ai ce w re	espirator selection must be based on known or anticipated exposure levels, the azards of the product and the safe working limits of the selected respirator. If workers re exposed to concentrations above the exposure limit, they must use appropriate, ertified respirators. Use a properly fitted, air-purifying or air-fed respirator complying ith an approved standard if a risk assessment indicates this is necessary. Wear a espirator conforming to EN140. Filter type: organic vapour (Type A) and particulate ter P3
Environmental exposure controls	th Ca	missions from ventilation or work process equipment should be checked to ensure ley comply with the requirements of environmental protection legislation. In some ases, fume scrubbers, filters or engineering modifications to the process equipment ill 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

<u>Appearance</u>								
Physical state	1	Liquid.						
Colour	:	Off-white.						
Odour	:	Aromatic. [Slight]						
Odour threshold	:	Not available.						
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: -17.98°C (-0.4°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	1	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)						
Flash point	:	Closed cup: 34°C						
Auto-ignition temperature	:	Ingredient name	°C	°F	Method			
		₽ methylpropan-1-ol	415	779				
Decomposition temperature	:	Stable under recommended sto	brage and h	nandling cond	ditions (see Section 7).			
рН	:	Not applicable.						
Viscosity	-	Kinematic (room temperature): Kinematic (40°C): >21 mm²/s	Kinematic (room temperature): >400 mm²/s					
Viscosity	:	> 100 s (ISO 6mm)						

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SECTION 9: Physical and chemical properties

Media		Result							
cold water		Not soluble							
Partition coefficient: n-octa water	inol/ :	Not applicable.							
Vapour pressure	:		Vapou	Ir Pres	sure at 20°C	Vapo	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		₽-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Evaporation rate	:	Highest known value acetate	e: 0.77 (xy	ene) V	/eighted avera	ige: 0.720	compared	l with butyl	
Relative density	:	1.64							
Vapour density	:	Highest known value Weighted average: 9			bis-[4-(2,3-epc	oxipropox	i)phenyl]µ	oropane).	
Explosive properties	:		The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
		Product does not present an oxidizing hazard.							
Oxidising properties		i loudot dooo not pro							
Oxidising properties <u>article characteristics</u>				0					

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

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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>>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	mists		L C	
and hexamethylenediamine				
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
s-[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		Sensitising
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin		Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001199245 Date of issue/Date of revision : 18 April 2024 SIGMASHIELD 880 GF BASE OFFWHITE SECTION 11: Toxicological information **Conclusion/Summary** : There are no data available on the mixture itself. **Target organs Product/ingredient name Route of** Category exposure : Not available. Information on likely routes of exposure Potential acute health effects Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. **Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. : Causes serious eye irritation. Eye contact Symptoms related to the physical, chemical and toxicological characteristics Inhalation : No specific data. Ingestion : No specific data. **Skin contact** : Adverse symptoms may include the following: irritation redness dryness cracking Eye contact Adverse symptoms may include the following: pain or irritation watering redness Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Potential chronic health effects Not available. **Conclusion/Summary** : Not available. : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or General dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards. Carcinogenicity 5 **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.

English (GB)

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SECTION 11: Toxicological information

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
s-[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
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia</i> magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum		
reaction products with	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-		
Conclusion/Summary : There are no data available on the mixture itself.						

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x 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

English (GB)	South Africa	12/16

SECTION 12: Ecological information

Soil/water partition : Not available. coefficient (K_{oc})

Mobility

: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
bis-[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
Époxy Resin (700 <mw <=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

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	: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

Waste code		Waste designation				
08 01 11*	waste paint and v	waste paint and varnish containing organic solvents or other hazardous substances				
ackaging						
Methods of disposal		on of waste should be avoided or minimised wherever possible. Waste nould be recycled. Incineration or landfill should only be considered when not feasible.				
Type of packaging		European waste catalogue (EWC)				
Container	15 01 06	mixed packaging				

Conforms to Regulation	(EC) No. 1907/2006	(REACH), Annex II, as	amended by Co	mmission Regulation	(EU)
2020/878					

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SECTION 13: Disposal considerations

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	Special precautions	internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways,
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SECTION 14: Transport information

	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 precautions 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	

SECTION 15: Regulatory information

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

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	Reference number	Date of revision
<mark>у</mark> ́РvВ	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

English (G	iB)
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Code : 00000119924	5	Date of issue/Date of	of revision	: 18 April 2024
SIGMASHIELD 880 GF BASE	-			· 107.pm 2024
SECTION 15: Regula	-			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.			
Other national and internat	tional regulations.			
Explosive precursors	: Not applicable.			
Ozone depleting substanc	<u>es (1005/2009/EU)</u>			
Not listed.				
15.2 Chemical safety assessment	: No Chemical Safety	Assessment has been carrie	ed out.	
SECTION 16: Other i	information			
Indicates information that I	has changed from previo	usly issued version.		
Abbreviations and acronyms	: ATE = Acute Toxicit CLP = Classification 1272/2008] DNEL = Derived No EUH statement = C	y Estimate n, Labelling and Packaging F Effect Level LP-specific Hazard statement No Effect Concentration		lation (EC) No.
Full text of abbreviated H statements	: H226 Flammabl H304 May be fa H312 Harmful in H315 Causes sk H317 May causes H318 Causes se H319 Causes se H322 Harmful if H335 May cause H336 May cause H373 May cause H411 Toxic to a H412 Harmful to	e liquid and vapour. tal if swallowed and enters a contact with skin. kin irritation. e an allergic skin reaction. erious eye damage. erious eye irritation.	n prolonged or re iffects. g effects.	peated exposure.
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 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	LONG-TERM (CHR LONG-TERM (CHR ASPIRATION HAZA SERIOUS EYE DAM	ONIC) AQUATIC ONIC) AQUATIC ONIC) AQUATIC IRD - Category 1 AGE/EYE IRRIT AGE/EYE IRRIT IDS - Category 3 /IRRITATION - C ON - Category 1 ORGAN TOXIC gory 2 ORGAN TOXIC	ITY - REPEATED
History			-	
Date of issue/ Date of	: 18 April 2024			
revision Date of previous issue	: 15 December 2023			

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878						
Code	: 000001199245	Date of issue/Date of revision	: 18 April 2024			
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SECTION	16: Other information					
Prepared by	: EHS					

<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.

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