SAFETY DATA SHEET

Date of issue/Date of revision

: 24 August 2021

Version : 4



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 GF BASE GREY 5177
Product code	: 00344557
Product type	: Liquid.
Other means of identificati	on
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	f 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

 Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

 Flam. Liq. 3, H226

 Skin Irrit. 2, H315

 Eye Irrit. 2, H319

Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

2.2 Label elements

Code : 00344557 SIGMASHIELD 880 GF BASE	GE	Date of issue/Date of revision : 24 August 2021
SECTION 2: Hazards		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	 Fammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. 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 hear hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	:	F exposed or concerned: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Hazardous ingredients	:	Poxy resin (MW ≤ 700) Epoxy Resin (700 <mw<=1100) Phenol, methylstyrenated 2,3-epoxypropyl neodecanoate 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene</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	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 vPv \mathbf{v}
Other hazards which do not result in classification	;	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

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Code

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
<mark>e</mark> poxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥10 - ≤22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥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	[1] [2]
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>≥1.0 - ≤5.0</td><td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317</td><td>[1]</td></mw<=1100)<>	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥0.10 - ≤2.1	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	[1]
1,3-bis[12-hydroxy-octadecamide- N-methylene]-benzene	REACH #: 01-2119962189-26 EC: 423-300-7 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[1] [2]

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

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures 1.11

4.1 Description of firs	st aid measures
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.

SIGMASHIELD 880 GF BASE GREY 5177 SECTION 4: First aid measures Ingestion : If swallowed, seek medical advice immediately and show the container or label. 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. be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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 effects 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 reactior lingestion Over-exposure signs/symptoms : 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 Indication of any immediate medical attention and special treatment needed Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments : No specific treatment. SECTION 5: Firefighting measures 5.1 Extinguishing media	Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II	
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Suitable extinguishing : Use dry chemical, CO ₂ , water spray (fog) or foam.	5.1 Extinguishing media		
media		: Use dry chemical, CO ₂ , water spray (fog) or foam.	
Unsuitable extinguishing : Do not use water jet. media		: Do not use water jet.	

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 halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

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.
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	: Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away
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English (GB)

South Africa

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Code	: 00344557	Date of issue/Date of revision : 24 August 2021
SIGMASHI	ELD 880 GF BAS	-
SECTIO	N 7: Handli	ng and storage
		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 or occupation	n general onal 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.
	ions for safe cluding any bilities	: 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.

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.
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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
xylene	EU OEL (Europe, 10/2019). Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 3/2020).
	TWA: 152 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
1,3-bis[12-hydroxy-octadecamide-N-methylene]-	ACGIH TLV (United States).
benzene	TWA: 3 mg/m³, (Respirable fraction)

Recommended monitoring procedures
 If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

English (GB)	South Africa	6/14

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Code

SECTION 8: Exposure controls/personal protection

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	<u>lres</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Code : **00344557** SIGMASHIELD 880 GF BASE GREY 5177 Date of issue/Date of revision

SECTION 9: Physical and chemical properties

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

<u>Appearance</u>								
Physical state	:	Liquid.						
Colour	:	Grey.						
Ddour	:	Characteristic.						
Ddour threshold	:	Not available.						
эΗ	:	insoluble in water.						
Melting point/freezing point	:	May start to solidify a data for the following -68.36°C (-91°F)						
nitial boiling point and poiling range	:	>37.78°C						
-lash point	:	Closed cup: 33°C						
Evaporation rate	:	Highest known value acetate	: 0.77 (xy	lene) W	eighted ave	rage: 0.7	73compared	d with butyl
- Flammability (solid, gas)	:	liquid						
Jpper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.7% U	pper: 10.9%	6 (2-met	hylpropan-1	-ol)
/apour pressure	:				Pressure at 20°C V		/apour pressure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm	kPa	Method
						Hg		
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2	Hg		
/apour density	:	methylpropan-1-ol Highest known value		-	13016-2		erage: 3.37	(Air = 1)
		v		-	13016-2		erage: 3.37	(Air = 1)
Vapour density Relative density Solubility(ies)	:	Highest known value	: 3.7 (Air	= 1) (xy	13016-2 Iene). Weig		erage: 3.37	(Air = 1)
Relative density	:	Highest known value	: 3.7 (Air	= 1) (xy	13016-2 Iene). Weig		erage: 3.37	(Air = 1)
Relative density Solubility(ies) Partition coefficient: n-octanol/ water	:	Highest known value 1.3 Insoluble in the follow Not applicable.	: 3.7 (Air	= 1) (xy	13016-2 Iene). Weig		erage: 3.37 Method	(Air = 1)
Relative density Solubility(ies) Partition coefficient: n-octanol/ vater	:	Highest known value 1.3 Insoluble in the follow	 : 3.7 (Air <i>v</i> ing mate	= 1) (xy	13016-2 Iene). Weių d water.	ghted av		(Air = 1)
Relative density Solubility(ies) Partition coefficient: n-octanol/ vater Auto-ignition temperature	: : : :	Highest known value 1.3 Insoluble in the follow Not applicable.	i 3.7 (Air ving mate	= 1) (xy rials: col 276	13016-2 Iene). Weig d water. • • F 528.8	ghted av	Method	
Relative density Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature	:::::::::::::::::::::::::::::::::::::::	Highest known value 1.3 Insoluble in the follow Not applicable. Ingredient name	i 3.7 (Air ving mate noate nended st perature)	= 1) (xy rials: col 276 orage ar	13016-2 Iene). Weig d water. • F 528.8 nd handling	ghted av	Method	
Relative density Solubility(ies) Partition coefficient: n-octanol/		Highest known value 1.3 Insoluble in the follow Not applicable. Ingredient name 73-epoxypropyl neodeca Stable under recomm Kinematic (room tem	 : 3.7 (Air ving mate noate nended st perature) 1 mm ² /s	= 1) (xy rials: col 276 orage ar : >400 m	d water.	ghted av	Method	

9.2 Other information

No additional information.

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
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SIGMASHIELD 880 GF BASE	GREY 5177
SECTION 10: Stabilit	y 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 halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>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	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and octadecanoic acid and	mists			
1,3-phenylenedimethanamine				

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

Acute toxicity estimates

Route	ATE value
	31732.11 mg/kg 205.33 mg/l

Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
epoxy resin (MW ≤ 700)		Skin - Mild irritant	Rabbit	-	-	-
		Eyes - Mild irritant	Rabbit	-	-	-
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.						

English (GB)

SECTION 11: Toxicological information

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Respiratory Sensitisation

: There are no data available on the mixture itself.

Product/ingro	edient name	Route of exposure	Species	Result
epoxy resin (MW \leq 700)		skin	Mouse	Sensitising
Conclusion/Summary		L	- 1	1
Skin	: There are no data ava	ilable on the mixtu	re itself.	
Respiratory	: There are no data ava	ilable on the mixtu	re itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data ava	ilable on the mixtu	re itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data ava	ilable on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data ava	ilable on the mixtu	re itself.	
<u>Teratogenicity</u>				
Conclusion/Summary	: There are no data ava	ilable on the mixtu	re itself.	
Specific target organ toxic	city (single exposure)			

Product/ingredient nameCategory
exposureRoute of
exposureTarget organsImage: Stress or stress of the stress of the

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name		Result
xylene		ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health ef	fects	
Inhalation	: No known significant effects or	critical hazards.
Ingestion	: No known significant effects or	critical hazards.
Skin contact	: Causes skin irritation. Defattin	g to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the	physical, chemical and toxicologic	al characteristics
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may includ irritation redness dryness cracking	e the following:
Eye contact	: Adverse symptoms may includ pain or irritation watering redness	e the following:

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SECTION 11: Toxicological information

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	Suspected of causing genetic defects.
Reproductive toxicity	:	No known significant effects or critical hazards.
Other information	:	Not available.
Prolonged or repeated contact	• ~	and dry alkin and appear irritation. Conding and grinding duate may be harmful if inhalad

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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<mark>e</mark> poxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - Daphnia	48 hours
		magna	
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus	96 hours
		mykiss	
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
epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	-	-
Conclusion/Summary	: There are no dat	a available on the mixture itself.	·	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
epoxy resin (MW ≤ 700)	-	-	Not readily
xylene	-	-	Readily
2,3-epoxypropyl neodecanoate	-	-	Not readily

12.3 Bioaccumulative potential

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SECTION 12: Ecological information				
Product/ingredient name	LogPow	BCF	Potential	
poxy resin (MW ≤ 700)	3	31	low	
xylene	3.12	7.4 to 18.5	low	
Phenol, methylstyrenated	3.627	-	low	
2-methylpropan-1-ol	1	-	low	
2,3-epoxypropyl neodecanoate	4.4	-	high	

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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 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.
European waste catalog	lue (EWC)

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

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when h Empty contai residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be nandling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. yeld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

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SECTION 14: Transport information

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	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN 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		111	111
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.

user

Code

- 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 EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Other national and international regulations.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

Conforms to Regulation (EC	;) No. 1907/2006 (REACH), /	Annex II		
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SIGMASHIELD 880 GF BASE	E GREY 5177			
SECTION 16: Other information				
Indicates information that	has changed from previously	y issued version.		
Abbreviations and acronyms	1272/2008] DNEL = Derived No Eff	abelling and Packaging Regulation [Reg ect Level specific Hazard statement Effect Concentration	gulation (EC) No.	
Full text of abbreviated H statements	H304May be fatal iH312Harmful in coH315Causes skin iH317May cause arH318Causes serioH319Causes serioH320Harmful if inhH335May cause reH341Suspected ofH411Toxic to aquaH412Harmful to aqua	n allergic skin reaction. us eye damage. us eye irritation.		
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Muta. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category GERM CELL MUTAGENICITY - C SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	IC HAZARD - Category 3 IC HAZARD - Category 4 1 RITATION - Category 1 RITATION - Category 2 3 ategory 2 Category 2 1	
<u>History</u> Date of issue/ Date of revision	: 24 August 2021			
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<u>Disclaimer</u>

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