SAFETY DATA SHEET

Date of issue/Date of revision

: 15 November 2022 Version : 3.01



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	: 00420287
Product type	: Liquid.
Other means of identificat	ion
Not available.	
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of Sigma Paint Saudi Arabia Lt PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	-

e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS

1.4 Emergency telephone	: 00966 138473100 extn 1001
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 Skin Sens. 1, H317 Muta. 2, H341 STOT RE 2, H373 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

• • • • •	No. 1907/2006 (REACH), Annex II
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SIGMASHIELD 880 GF BASE	OFFWHITE
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. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	: Get medical advice/attention if you feel unwell.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	 Epoxy resin (MW ≤ 700) Epoxy Resin (700<mw<=1100) Phenol, methylstyrenated crystalline silica, respirable powder (<10 microns) 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. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	<u>ients</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 vPvE
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
<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	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 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	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]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	-	[1] [2]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥0.10 - ≤2.1	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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>

English (GB)	United Arab Emirates

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SECTION 3: Composition/information on ingredients

1 Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures 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	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 reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	<u>symptoms</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 im	mediate 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	
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: Firefight	ting measures		
5.2 Special hazards arising f	rom the substance or mixt	ure	
Hazards from the substance or mixture	a fire or if heated, a pres risk of a subsequent exp effects. Fire water conta	apour. Runoff to sewer may create fire soure increase will occur and the conta plosion. This material is harmful to aqu aminated with this material must be co o any waterway, sewer or drain.	ainer may burst, with the uatic life with long lasting
Hazardous combustion products	: Decomposition products carbon oxides halogenated compounds metal oxide/oxides	may include the following materials: s	
5.3 Advice for firefighters			
Special precautions for fire-fighters	there is a fire. No action	ne by removing all persons from the v n shall be taken involving any personal rs from fire area if this can be done wi ed containers cool.	risk or without suitable
Special protective equipment for fire-fighters	apparatus (SCBA) with a for fire-fighters (including	r appropriate protective equipment an a full face-piece operated in positive p g helmets, protective boots and gloves ovide a basic level of protection for che	ressure mode. Clothing s) conforming to European

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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

See Section 1.2 for Identified uses.

Recommendations: Not available.Industrial sector specific: Not available.solutions: Not available.

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). [xylene, mixed isomers] 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, 1/2021).
	TWA: 152 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
crystalline silica, respirable powder (<10 mic	prons)
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ethylbenzene	TWA: 0.025 mg/m ³ 8 hou	9). Absorbed through skin.
	STEL: 200 ppm 15 minute TWA: 442 mg/m ³ 8 hours TWA: 100 ppm 8 hours.	es.
1,3-bis[12-hydroxy-octadecar benzene		
Recommended monitoring procedures	: If this product contains ingredients with expo atmosphere or biological monitoring may be the ventilation or other control measures and protective equipment. Reference should be following: European Standard EN 689 (Work assessment of exposure by inhalation to che values and measurement strategy) Europea atmospheres - Guide for the application and exposure to chemical and biological agents) atmospheres - General requirements for the measurement of chemical agents) Reference methods for the determination of hazardous	required to determine the effectiveness of l/or the necessity to use respiratory made to monitoring standards, such as the kplace atmospheres - Guidance for the mical agents for comparison with limit in Standard EN 14042 (Workplace use of procedures for the assessment of European Standard EN 482 (Workplace performance of procedures for the ce to national guidance documents for
3.2 Exposure controls		
Appropriate engineering controls	: Use only with adequate ventilation. Use proc other engineering controls to keep worker ex recommended or statutory limits. The engine vapour or dust concentrations below any low ventilation equipment.	posure to airborne contaminants below an eering controls also need to keep gas,
ndividual protection measu	<u>95</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly a eating, smoking and using the lavatory and a Appropriate techniques should be used to re Contaminated work clothing should not be al contaminated clothing before reusing. Ensure showers are close to the workstation location	at the end of the working period. move potentially contaminated clothing. lowed out of the workplace. Wash re that eyewash stations and safety
Eye/face protection Skin protection	: Chemical splash goggles.	
Hand protection	: Chemical-resistant, impervious gloves comp worn at all times when handling chemical pro- necessary. Considering the parameters spe during use that the gloves are still retaining the noted that the time to breakthrough for any g glove manufacturers. In the case of mixtures protection time of the gloves cannot be accur frequently repeated contact may occur, a glo (breakthrough time greater than 480 minutes When only brief contact is expected, a glove (breakthrough time greater than 30 minutes and The user must check that the final choice of product is the most appropriate and takes int as included in the user's risk assessment.	oducts if a risk assessment indicates this is cified by the glove manufacturer, check heir protective properties. It should be love material may be different for different s, consisting of several substances, the rately estimated. When prolonged or ve with a protection class of 6 s according to EN 374) is recommended. with a protection class of 2 or higher according to EN 374) is recommended. type of glove selected for handling this

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SECTION 8: Exposure controls/personal protection							
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.						
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.						
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.						

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	: 1	Not available.					
Melting point/freezing point	(ay start to solidify at the following temperature: -14°C (6.8°F) This is based on ata for the following ingredient: Phenol, methylstyrenated. Weighted average: 2.05°C (-97.7°F)					
nitial boiling point and poiling range	: :	>37.78°C					
Flammability	: 1	ot available.					
Jpper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)					
Flash point	: (Closed cup: 37°C					
Auto-ignition temperature	1	Ingredient name	°C	°F	Method		
		2,3-epoxypropyl neodecanoate	276	528.8			
Decomposition temperature	: :	Stable under recommended st	orage and l	handling cond	litions (see Section 7).		
рН	: 1	Not applicable. insoluble in wa	ter.				
/iscosity		Kinematic (room temperature) Kinematic (40°C): >21 mm²/s	: >400 mm ²	²/s			
/iscosity	:	> 100 s (ISO 6mm)					
Solubility(ies)	1						
Media		Result					
<mark>¢</mark> ∕old water	vater Not soluble						
Partition coefficient: n-octanol	:	Not applicable.					

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SECTION 9: Physical and chemical properties

			Vapou	ur Pres	sure at 20°C	Vapour pressure at 50		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (etl	nylbenz	ene) Weighteo	d average	e: 0.74co	mpared with
Relative density	:	1.6						
Vapour density	:	Highest known value	e: 3.7 (Air	= 1) (x	ylene). Weigh	ted avera	age: 3.37	(Air = 1)
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
Particle characteristics								
Median particle size	_	Not applicable.						

9.2 Other information

Code

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 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	-
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onforms to Regulation (E	C) No. 1907/200	6 (REACH), /	Annex II						
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ethylbenzene Reaction products of 12-hydroxyoctadecanoic ac octadecanoic acid and 1,3-phenylenedimethanam		LD50 Derm LD50 Oral	ation Vapou ial ation Dusts a		Rat Rat Rab Rat Rat	bit	9.6 g/kg 17.8 mg/l 17.8 g/kg 3.5 g/kg >5.08 mg		- 4 hours - - 4 hours
Conclusion/Summary Irritation/Corrosion	: There are	no data avail	able on the	mixture	itsel	f.			
Product/ingredien	t name	Res	sult	Spec	cies	Score	Ехро	osure	Observation
epoxy resin (MW ≤ 700) xylene		Eyes - Mild i Skin - Mild ir Skin - Moder	ritant	Rabbit Rabbit Rabbit	t	- - -	- - 24 hours	500 mg	- -
Conclusion/Summary									
Skin	: There are	no data availa	able on the r	nixture	itself				
Eyes	: There are	no data availa	able on the r	nixture	itself				
Respiratory	: There are	no data availa	able on the r	nixture	itself				
<u>Sensitisation</u>									
Product/ingredient name		Route of exposure		Spec		cies		Result	
epoxy resin (MW ≤ 700)			skin		Μοι	ise		Sensitisi	ng
Conclusion/Summary			1		1				
Skin	: There are	no data avail	able on the	mixture	itsel	f.			
Respiratory	: There are	no data avail	able on the	mixture	itsel	f.			

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.

Conclusion/Summary : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Product/ingredient nameCategory
exposureRoute of
exposureTarget organsxylene
2-methylpropan-1-olCategory 3
Category 3-Respiratory tract irritation
Respiratory tract irritation
Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Teratogenicity

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Code

SECTION 11: Toxicological information

Product/i	ngredient name	Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
nformation on likely outes of exposure	: Not available.	
Potential acute health effect	<u>'S</u>	
Inhalation	: No known significant effects or c	itical hazards.
Ingestion	: No known significant effects or c	itical hazards.
Skin contact	: Causes skin irritation. Defatting	to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the ph	ysical, chemical and toxicological	characteristics
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include the irritation redness dryness cracking	he following:
Eye contact	: Adverse symptoms may include the pain or irritation watering redness	he following:
Delayed and immediate effe	cts as well as chronic effects from	short and long-term exposure
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	ects	
Not available.		
Conclusion/Summary	Not available.	
General	: May cause damage to organs thr repeated contact can defat the sh	ough prolonged or repeated exposure. Prolonged or kin and lead to irritation, cracking and/or dermatitis. c reaction may occur when subsequently exposed to
Carcinogenicity	: No known significant effects or ci	itical hazards.
Mutagenicity	: Suspected of causing genetic de	fects.
Reproductive toxicity	: No known significant effects or ci	itical hazards.
-		

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.

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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
<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 magna	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum		
epoxy resin (MW ≤ 700) ethylbenzene	OECD 301F -	5 % - 28 days 79 % - Readily - 10 days		-		
Conclusion/Summary : There are no data available on the mixture itself.						
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability		
\sim				Notroadily		

epoxy resin (MW ≤ 700)	-	-	Not readily
xylene	-	-	Readily
2,3-epoxypropyl neodecanoate	-	-	Not readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy 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
ethylbenzene	3.6	79.43	low

12.4 Mobility in soil

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

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

: 00420287

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Not available.

Code

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

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

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

SECTION 14: Transport information

	ADR/RID	IMDO	G IAT	Α
14.1 UN number or ID number	UN1263	UN1263	UN1263	
14.2 UN proper shipping name	PAINT	PAINT	PAINT	
14.3 Transport hazard class(es)	3	3	3	
14.4 Packing group	III	III	111	
14.5 Environmental hazards	No.	No.	No.	
	1	English (GB) U	nited Arab Emirates	13/15

Conforms to Regulat	tion (EC) No. 1907/2006 (RI	EACH), Annex II	
Code : 00420	0287	Date of issue/Date	e of revision : 15 November 2022
SIGMASHIELD 880 G	F BASE OFFWHITE		
SECTION 14: T	ransport informati	on	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Additional information	วท		
	This class 3 viscous liquid is 2.2.3.1.5.1.	not subject to regulation in page	ckagings up to 450 L according to
Tunnel code : ((D/E)		
	•	not subject to regulation in pac	ckagings up to 450 L according to 2.3.2.5.
IATA : I	None identified.		
14.6 Special precaut user	upright and sec		ransport in closed containers that are sporting the product know what to do in the
14.7 Transport in bu according to IMO instruments	Ik : Not applicable.		
SECTION 15: F	Regulatory information	tion	
15.1 Safety, health a	nd environmental regulati	ons/legislation specific for th	e substance or mixture
EU Regulation (EC)	<u>) No. 1907/2006 (REACH)</u>		
	f substances subject to au	<u>uthorisation</u>	
Annex XIV			
None of the compo			
Substances of ve			
None of the compo			
Annex XVII - Restr on the manufactu placing on the ma and use of certain dangerous substa mixtures and artic	re, Irket I ances,		
Other national and	international regulations.		
Ozone depleting substances (1005/2009/EU)			
Not listed.			
15.2 Chemical safet assessment	y : No Chemical Sa	afety Assessment has been ca	rried out.
SECTION 16: C	Other information		

ther 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	

Conforms to Regulation (EC	No. 1907/2006 (REACH), Annex II				
Code : 00420287	Date of issue/Date of revision : 15 November 2022				
SIGMASHIELD 880 GF BASE	OFFWHITE				
SECTION 16: Other	SECTION 16: Other information				
Full text of classifications [CLP/GHS]	 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H317 May cause skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye damage. H319 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause domage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. Acute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 2 Skin Sens. 1 SKIN CORROSION/IRRITATION - Category 2 Skin Se				
<u>History</u> Date of issue/ Date of	: 15 November 2022				
revision					
Date of previous issue	: 2 November 2021				
Prepared by	: EHS				
Version	: 3.01				
<u>Disclaimer</u>					

<u>Disclaimer</u>

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