SAFETY DATA SHEET

Date of issue/Date of revision

: 24 August 2021

Version : 3



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 identification	tion
Not available.	
1.2 Relevant identified use	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 the safety data sheet

Sigma Paint Saudi Arabia Ltd. PO Box 7509, Dammam 3147 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone number	: 00966 138473100 extn 1001

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] Fam. Liq. 3, H226 Skin Irrit. 2, H315 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 Hazard pictograms :

English (GB)

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SECTION 2: Hazards	identification
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 heat hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	: 📕 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)< li=""> 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	<u>nents</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 vPvl
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

not result in classification

SECTION 3: Composition/information on ingredients 2 2 Mixtu

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
eṕoxy 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	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332	[1] [2]

Code : 00344557 SIGMASHIELD 880 GF BASE GRE		of issue/Date of r	evision : 24 August	2021
SECTION 3: Composition/information on ingredients				
	Index: 601-022-00-9		Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	
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 #: 01-2119555274-3 EC: 270-966-8 CAS: 68512-30-1	8 ≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-2 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	3 ≥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 #: 01-2119431597-3 EC: 247-979-2 CAS: 26761-45-5	3 ≥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 #: 01-2119962189-2 EC: 423-300-7 CAS: 911674-82-3 Index: 616-198-00-2	6 <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.

Туре

[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

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

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II		
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SECTION 4: First a	id measures	
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/sym</u>	iptoms	
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 imme	diate 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.

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	
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.
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. 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 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.

English (GB)

Saudi Arabia

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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.
	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.

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
₩ylene	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]- benzene	ACGIH TLV (United States). TWA: 3 mg/m ³ , (Respirable fraction)
procedures atmosphere or b the ventilation or protective equip following: Europ assessment of e values and mea atmospheres - O exposure to che atmospheres - O measurement of	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness of r other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as the bean Standard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 (Workplace General requirements for the performance of procedures for the f chemical agents) Reference to national guidance documents for determination of hazardous substances will also be required.
controls other engineerin recommended of	lequate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any or statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment.

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SECTION 8: Exposu	re controls/personal protection
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 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	: Liquid.
Colour	: Grey.
Odour	: Characteristic.
Odour threshold	: Not available.
рН	: insoluble in water.
Melting point/freezing point	 May start to solidify at the following temperature: -14°C (6.8°F) This is based on data for the following ingredient: Phenol, methylstyrenated. Weighted average: -68.36°C (-91°F)

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SECTION 9: Physical a	nd	chemical prop	perties						
Initial boiling point and boiling range	:	>37.78°C							
Flash point	:	Closed cup: 33°C							
Evaporation rate	1	Highest known value: 0.77 (xylene) Weighted average: 0.73compared with butyl acetate							
Flammability (solid, gas)	:	liquid							
Upper/lower flammability or explosive limits	:	Greatest known rang	ge: Lower:	1.7% U	Jpper: 10.9	9% (2-me	ethylpropan-	1-ol)	
Vapour pressure	:		Vapour	ır Press	r Pressure at 20°C		Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	l mn Hg		Method	
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2				
Vapour density	:	Highest known value	e: 3.7 (Air	= 1) (xy	/lene). W	eighted a	verage: 3.3	7 (Air = 1)	
Relative density	:	1.3							
Solubility(ies)	:	Insoluble in the follow	wing mate	rials: col	d water.				
Partition coefficient: n-octanol/ water	:	Not applicable.							
Auto-ignition temperature	:	Ingredient name		°C	°		Method		
		3-epoxypropyl neodeca	anoate	276	52	8.8			
			nended st	orage ar	nd handlin	g conditio	ons (see Se	ction 7).	
Decomposition temperature	12	Stable under recomm	nonaca o	Stable under recommended storage and handling conditions (see Section 7). Kinematic (room temperature): >400 mm ² /s Kinematic (40°C): >21 mm ² /s					
Decomposition temperature Viscosity		Kinematic (room terr	nperature)	-	nm²/s				
	1	Kinematic (room terr	nperature) 21 mm²/s	: >400 m					

9.2 Other information

No additional information.

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

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

: 00344557

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Acute toxicity

Code

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	mists		, i i i i i i i i i i i i i i i i i i i	
octadecanoic acid and				
1,3-phenylenedimethanamine				

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

Acute toxicity estimates

Route	ATE value		
	31732.11 mg/kg		
Inhalation (vapours)	205.33 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
epoxy resin (MW \leq 700)	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

kiı		

Eyes

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

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

Respiratory Sensitisation

Product/ingredient nameRoute of
exposureSpeciesResultepoxy resin (MW ≤ 700)skinMouseSensitising

	E	nglish (GB)	Saudi Arabia	9/14
Conclusion/Summary	: There are no data ava	ailable on the mixture itse	elf.	
Teratogenicity				
Conclusion/Summary	: There are no data ava	ailable on the mixture itse	elf.	
Reproductive toxicity				
Conclusion/Summary	: There are no data ava	ailable on the mixture itse	elf.	
Carcinogenicity				
Conclusion/Summary	: There are no data ava	ailable on the mixture itse	elf.	
Mutagenicity				
Respiratory	: There are no data ava	ailable on the mixture itse	elf.	
Skin	: There are no data ava	ailable on the mixture itse	elf.	
Conclusion/Summary				

SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

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Product/ingredient name	Category	Route of exposure	Target organs
<mark>x</mark> ylene 2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Code

Aspiration hazard

Eye contact : Causes serious eye irritation. 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:			
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 read Eye contact : Causes serious eye irritation. 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:			
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Ingestion : No specific data. Skin contact : Adverse symptoms may include the following: irritation redness dryness cracking Eye contact : Adverse symptoms may include the following:			
Skin contact : Adverse symptoms may include the following: irritation redness dryness cracking Eye 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.			
General Prolonged or repeated contact can defat the skin and lead to irritation, crack dermatitis. Once sensitized, a severe allergic reaction may occur when subsexposed 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.			
English (GB) Saudi Arabia			

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

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SECTION 11: Toxicological information

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.

SECTION 12: Ecological information

12.1 Toxicity

Code

Product/ingredient name	Result	Species	Exposure
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
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 data 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

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.

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

SECTION 14: Transport information

	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	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 IATA	 This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. None identified.

Conforms to Regulation (EC) No. 1907/2006	(REACH), Annex II	
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SECTION 14: Transport informa	ation	
user upright and	within user's premises: always transport in closed secure. Ensure that persons transporting the produt accident or spillage.	
14.7 Transport in bulk : Not applicat according to IMO instruments	ble.	
SECTION 15: Regulatory inform	nation	
15.1 Safety, health and environmental regul	ations/legislation specific for the substance or	mixture
EU Regulation (EC) No. 1907/2006 (REACH	Ð	
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 applicat	ble.	
on the manufacture, placing on the market		
and use of certain		
dangerous substances,		
mixtures and articles		
Other national and international regulation	<u>15.</u>	
Ozone depleting substances (1005/2009/E	<u>:U)</u>	
Not listed.		
15.2 Chemical safety : No Chemica assessment	I Safety Assessment has been carried out.	

SECTION 16: Other information

	Indicates information that has changed from previously issued version.
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Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
Full text of abbreviated H statements	 F226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H322 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	

English (GB)

Saudi Arabia

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	: 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) AQUA LONG-TERM (CHRONIC) AQUA LONG-TERM (CHRONIC) AQUA ASPIRATION HAZARD - Categor SERIOUS EYE DAMAGE/EYE IR SERIOUS EYE DAMAGE/EYE IR FLAMMABLE LIQUIDS - Category GERM CELL MUTAGENICITY - C SKIN CORROSION/IRRITATION SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TO EXPOSURE - Category 3	FIC HAZARD - Category 3 FIC HAZARD - Category 4 y 1 RITATION - Category 1 RITATION - Category 2 / 3 Category 2 - Category 2 / 1			
<u>History</u> Date of issue/ Date of revision	: 24 August 2021					
Date of previous issue	: 20 December 2019					
Prepared by	: EHS					
Version	: 3					
D's status s						

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