SAFETY DATA SHEET

Date of issue/Date of revision

: 25 October 2024 Version



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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 GF BASE BLACK
Product code	: 000001196146
Other means of identificat	ion
00468644; 00475829	
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	f the safety data sheet
Sigma Paint Saudi Arabia Li	d.
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 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 :

Signal word

: Warning

Conforms to Reg 2020/878	gulation (EC) No. 1	907/2006 (REACH),	Annex II, as an	nended by Com	mission Regulation (EU))

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SECTION 2: Hazards identification

Hazard statements	: Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	: Take off contaminated clothing and wash it before reuse.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P362 + P364, P501
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 contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
bis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
	<u>.</u>	English	(GB) United Arab E	mirates	2/17

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SECTION 3: Composition/information on ingredients

-	-			-	
			Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
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]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
These are used difficulting and			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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

SECTION 4: First aid measures

4.1 Description of firs	t 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.

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SECTION 4: First aid	measures				
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 symptom Potential acute health effect	s and effects, both acute and delayed				
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/sympt					
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 immedia	te medical attention and special treatment needed				
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.				
Specific treatments	: No specific treatment.				
SECTION 5: Firefight	ing 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 fr	om the substance or mixture				
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. Ir a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.				
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides				

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SECTION 5: Firefighting measures

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	ote	ctive 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

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SECTION 7: Handling and storage

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits	
xylene	Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes, purs] Absorbed through skin.
	STEL 15 minutes: 442 mg/m ³ .
	•
	STEL 15 minutes: 100 ppm.
	TWA 8 hours: 221 mg/m ³ .
	TWA 8 hours: 50 ppm.
2-methylpropan-1-ol	Ministry of Labor (France, 9/2023)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 150 mg/m³.
ethylbenzene	Ministry of Labor (France, 9/2023) Absorbed through skin.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 88.4 mg/m³.
	STEL 15 minutes: 442 mg/m ³ .
	STEL 15 minutes: 100 ppm.

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✓ Talc , not containing asbestiform fibres	Abu Dhabi - OSHAD - Occupational air quality threshold limit
ale, not containing assessment hores	values (United Arab Emirates, 7/2016) A4.
	TWA 8 hours: 2 mg/m ³ . Form: measured as respirable fraction of
	the aerosol. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006)
	TWA 8 hours: 2 mg/m ³ .
	ACGIH TLV (United States, 7/2023) A4. TWA 8 hours: 2 mg/m ³ . Form: Respirable fraction.
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit
	values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)]
	A4.
	STEL 15 minutes: 651 mg/m ³ . STEL 15 minutes: 150 ppm.
	TWA 8 hours: 434 mg/m ³ .
	TWA 8 hours: 100 ppm.
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)
	[xylene (all isomers)]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 434 mg/m³. STEL 15 minutes: 651 mg/m³.
	TWA 8 hours: 100 ppm.
	ACGIH TLV (United States, 7/2023) [p-xylene and mixtures
	containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm.
barium sulfate	Abu Dhabi - OSHAD - Occupational air quality threshold limit
	values (United Arab Emirates, 7/2016)
	TWA 8 hours: 10 mg/m ³ .
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)
	TWA 8 hours: 10 mg/m ³ .
	ACGIH TLV (United States, 7/2023)
2-methylpropan-1-ol	TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit
	values (United Arab Emirates, 7/2016)
	TWA 8 hours: 152 mg/m ³ .
	TWA 8 hours: 50 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006)
	TWA 8 hours: 152 mg/m ³ .
	TWA 8 hours: 50 ppm. ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 152 mg/m ³ .
glass, oxide, chemicals	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [synthetic vitreous fibers,
	continuous filament glass fibers] A4.
	STEL 15 minutes: 1 f/cm ³ . Form: respirable fibers: length > 5µm;
	aspect ratio > 3:1, as determined by the membrane filter method at 400-450 X magnification (4-mm objective), using phase-contrast
	illumination.
	TWA 8 hours: 5 mg/m ³ . Form: measured as inhalable fraction of the
	aerosol. ACGIH TLV (United States)
	TWA: 10 mg/m ³ . Form: Total dust.
	TWA: 3 mg/m ³ . Form: Respirable.
	TWA: 1. Form: Continuous filament glass fibres.
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ethylbenzene 12-hydroxyoctadecanoic acid, reaction products	 TWA: 5 mg/m³ (Inhalable). Form: Continuous filament glass fibres. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3. STEL 15 minutes: 543 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 434 mg/m³. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 125 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 543 mg/m³. STEL 15 minutes: 543 mg/m³. STEL 15 minutes: 543 mg/m³. TEL 15 minutes: 543 mg/m³. TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) A3. Ototoxicant. TWA 8 hours: 20 ppm. ACGIH TLV (United States)
with 1,3-benzenedimethanamine and hexamethylenediamine	TWA: 10 mg/m ³ . Form: Inhalable particle. TWA: 3 mg/m ³ (inhalable dust). Form: Respirable particle.
x ylene	DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.
ethylbenzene	DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
procedures Standard EN 68 by inhalation to strategy) Europ application and biological agent requirements for agents) Refere	ald be made to monitoring standards, such as the following: European B9 (Workplace atmospheres - Guidance for the assessment of exposure chemical agents for comparison with limit values and measurement bean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and ts) European Standard EN 482 (Workplace atmospheres - General or the performance of procedures for the measurement of chemical ence to national guidance documents for methods for the determination ubstances will also be required.
8.2 Exposure controls	
Appropriate engineering controls : Use only with a other engineering recommended	dequate ventilation. Use process enclosures, local exhaust ventilation or ng controls to keep worker exposure to airborne contaminants below any or statutory limits. The engineering controls also need to keep gas, concentrations below any lower explosive limits. Use explosion-proof pment.
Individual protection measures	
eating, smoking Appropriate tec Contaminated of contaminated of	prearms and face thoroughly after handling chemical products, before g and using the lavatory and at the end of the working period. hniques should be used to remove potentially contaminated clothing. work clothing should not be allowed out of the workplace. Wash clothing before reusing. Ensure that eyewash stations and safety bese to the workstation location.
Eye/face protection : Chemical splas Skin protection	h goggles.
Hand protection :	

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

Appearance					
Physical state	:	Liquid.			
Colour	:	Black.			
Odour	:	Aromatic. [Slight]			
Odour threshold	:	Not available.			
Melting point/freezing point	:	Not determined.			
Initial boiling point and boiling range	:	>37.78°C			
Flammability	:	Not determined. There are	e no data availa	able on the mix	ture itself.
Upper/lower flammability or explosive limits	:	Not available.			
Flash point	:	Closed cup: 37°C			
Auto-ignition temperature	:	Ingredient name	°C	°F	Method
		methylpropan-1-ol	415	779	
Decomposition temperature	:	Stable under recommende	ed storage and	handling condi	tions (see Section 7).
рН	:	Not applicable. insoluble in	n water.		
Viscosity	:	Øynamic (room temperatu Kinematic (room tempera Kinematic (40°C): >21 mr	ture): >400 mm		
Viscosity	:	> 100 s (ISO 6mm)			
		English ((GB) Unit	ed Arab Emira	ites 9/17

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SECTION 9: Physical and chemical properties

Solubility(ies)		I						
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octai water	nol/ :	Not applicable.						
Vapour pressure	:		Vapou	ur Pres	sure at 20°C	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		<mark>₽∕</mark> methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Relative density	:	1.54						
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.						

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 : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 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. : Keep away from the following materials to prevent strong exothermic reactions: **10.5 Incompatible materials** oxidising agents, strong alkalis, strong acids. Depending on conditions, decomposition products may include the following materials: **10.6 Hazardous** carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ decomposition products oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl]	LD50 Oral	Rat	17100 mg/kg	-
derivs.				
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine	mists			
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae				
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

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

: There are no data available on the mixture itself.

Respiratory

Eyes

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
s-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitising

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

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SECTION 11: Toxic	ological information				
Conclusion/Summary	: There are no data availa	ble on the	mixtur	re itself.	
<u>Specific target organ toxi</u>	<u>city (single exposure)</u>				
Product/ir	ngredient name	Cate	gory	Route of exposure	Target organs
xylene 2-methylpropan-1-ol		Categ Categ Categ	ory 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects
Specific target organ toxi	<u>city (repeated exposure)</u>				
Product/ir	ngredient name	Cate	gory	Route of exposure	Target organs
ethylbenzene 12-hydroxyoctadecanoic ad 1,3-benzenedimethanamin	cid, reaction products with e and hexamethylenediamine	Categ Categ		- inhalation	hearing organs lungs
Aspiration hazard					
Produc	t/ingredient name				Result
xylene ethylbenzene				IRATION HAZARD	
Information on likely	: Not available.				
Ingestion Skin contact Eye contact	: Causes skin irritation. D	 No known significant effects or critical hazards. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Causes serious eye irritation. 			allergic skin reaction.
Symptoms related to the	physical, chemical and toxic	ological cl	naract	teristics	
Inhalation	: No specific data.				
Ingestion	: No specific data.				
Skin contact Eye contact	 Adverse symptoms may irritation redness dryness cracking Adverse symptoms may pain or irritation watering redness 	include the	e follov	wing:	
	ffects as well as chronic effe	<u>cts from s</u>	<u>hort a</u>	and long-term exp	<u>osure</u>
Short term exposure Potential immediate effects	: Not available.				
Potential delayed effect	ts : Not available				
Long term exposure					
Potential immediate effects	: Not available.				
Potential delayed effect	ts : Not available.				
Potential chronic health e					
Not available.					

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SECTION 11: Toxicological information

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	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh	Daphnia - <i>daphnia</i>	48 hours
	water	magna	
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and		Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - Daphnia	48 hours
		magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
		mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
	C C	Pseudokirchneriella	
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia</i>	21 days
	U U	magna (Water flea)	

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

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Product/ingredient name	Test	Result	Dose	Inoculum
reaction products with 1,3-benzenedimethanamine	- OECD 301D Ready Biodegradability - Closed Bottle Test	79 % - Readily - 10 days 9 % - Not readily - 29 days	-	-

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

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	-	Low
ethylbenzene	3.6	79.43	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
ofs-[4-(2,3-epoxipropoxi) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
xylene	No	N/A	No	No	No	N/A	No
Époxy Resin (700 <mw <=1100)</mw 	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
2-methylpropan-1-ol	No	N/A	N/A	No	Ň/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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	: 🔀 es.
European waste catalog	ue (EWC)

Waste code		Waste designation
	Ø 8 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Р	ackaging	

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	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container. eld or grind used containers unless they have been cleaned thoroughly roid dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	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.

English (GB) United Arab Emirates

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878						
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SECTION 14: Transport information						
IATA : None identified.						
14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.						
14.7 Transport in bulk: Not applicable.according to IMOinstruments						
SECTION 15: Regulatory information						
15.1 Safety, health and environmental regulatio	ns/legislation specific for the substance or m	ixture				
EU Regulation (EC) No. 1907/2006 (REACH)						
Annex XIV - List of substances subject to aut	thorisation					
Annex XIV						

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
₩́́Р́vB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol		D(2023) 8585-DC	1/23/2024

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market

and use of certain

dangerous substances, mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

: No Chemical Safety Assessment has been carried out.

assessment

15.2 Chemical safety

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	TE = Acute Toxicity Estimate LP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 272/2008] NEL = Derived No Effect Level UH statement = CLP-specific Hazard statement NEC = Predicted No Effect Concentration RN = REACH Registration Number		
Full text of abbreviated H statements	 H225 Highly flammable liquid and vapour. H226 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. 		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878								
Code : 00000119614	6	Date of issue/Date of revision	: 25 October 2024					
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SECTION 16: Other information								
	H332 Harmful if in H335 May cause r H336 May cause c H373 May cause c H411 Toxic to aqu H412 Harmful to a	ous eye irritation. haled. espiratory irritation. drowsiness or dizziness. damage to organs through prolonged or i atic life with long lasting effects. iquatic life with long lasting effects. ong lasting harmful effects to aquatic life						
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. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 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 FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	TIC HAZARD - Category 2 TIC HAZARD - Category 3 TIC HAZARD - Category 4 1 RITATION - Category 1 RITATION - Category 2 2 3 Category 2 1 ICITY - REPEATED					
<u>History</u> Date of issue/ Date of	: 25 October 2024							
revision Date of previous issue Prepared by	: 22 April 2024 : EHS							
Version	: 4							

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