SAFETY DATA SHEET

Date of issue/Date of revision

: 3 September 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 BASE BLACK				
Product code	: 000001195807				
Other means of identificat	Other means of identification				
00441665; 00446821; 00468	3642				
1.2 Relevant identified uses	of the substance or mixture and uses advised against				
Product use	: Professional applications, Used by spraying.				
Use of the substance/ mixture	: Coating.				
Uses advised against	: Product is not intended, labelled or packaged for consumer use.				
1.3 Details of the supplier o	f the safety data sheet				
Sigma Paint Saudi Arabia Lt	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 responsible for this SDS	: ndpic@sfda.gov.sa				

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



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulatio	n (EU)
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SECTION 2: Hazards identification

Signal word	: Warning	
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. 	
Precautionary statements		
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.	
Response	: Take off contaminated clothing and wash it before reuse.	
Storage	: Not applicable.	
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P362 + P364, P501 	
Hazardous ingredients	 bis-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700<mw<=1100) Phenol, methylstyrenated oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-</mw<=1100) 	
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
Special packaging requirem	ients	
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

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øs-[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 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
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]
Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	≥1.0 - ≤5.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
			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

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SECTION 3: Composition/information on ingredients

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

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
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

His most important symp	tomo una checto, both actue ana actuyea
Potential acute health e	ffects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>imptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any imm	ediate 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: 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

Conforms to Regulation (EC) No. 1907/2006 (REACH)	, Annex II, as amended by Commission Regulation (EU)
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SECTION 5: Firefighting measures

SECTION 5: Firefighting measures		
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides	
5.3 Advice for firefighters		
Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

For non-emergency		ctive equipment and emergency procedures No action shall be taken involving any personal risk or without suitable training.
personnel		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	со	entainment 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.
		English (GB) United Arab Emirates 5/16

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values			
ralc , not containing asbestiform fibres	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 2 mg/m³ 8 hours. 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: 2 mg/m³ 8 hours. ACGIH TLV (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Respirable 			
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)]			
1	English (GB) United Arab Emirates 6/16			

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	STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.	
	TWA: 434 mg/m ³ 8 hours.	
	TWA: 100 ppm 8 hours.	
	Cabinet Decree (12) of 2006 Regarding Re	
	Protection of Air from Pollution (United Ar	ab Emirates, 5/2006).
	[xylene (all isomers)]	
	STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours.	
	STEL: 651 mg/m ³ 15 minutes.	
	TWA: 100 ppm 8 hours.	
	ACGIH TLV (United States, 7/2023). [p-xyle	ene and mixtures
	containing p-xylene] Ototoxicant.	
	TWA: 20 ppm 8 hours.	
barium sulfate	Abu Dhabi - OSHAD - Occupational air qua	ality threshold limit
	values (United Arab Emirates, 7/2016).	
	TWA: 10 mg/m ³ 8 hours.	
	Cabinet Decree (12) of 2006 Regarding Re	
	Protection of Air from Pollution (United Ar	ab Emirates, 5/2006).
	TWA: 10 mg/m ³ 8 hours. ACGIH TLV (United States, 7/2023). Notes	. The value is for total
	dust containing no asbestos and < 1% cry	
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable frac	
2-methylpropan-1-ol	Abu Dhabi - OSHAD - Occupational air qua	
	values (United Arab Emirates, 7/2016).	
	TWA: 152 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	
	Cabinet Decree (12) of 2006 Regarding Re	
	Protection of Air from Pollution (United Ar	ab Emirates, 5/2006).
	TWA: 152 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023).	
	TWA: $152 \text{ mg/m}^3 8 \text{ hours.}$	
	TWA: 50 ppm 8 hours.	
ethylbenzene	Abu Dhabi - OSHAD - Occupational air qua	ality threshold limit
	values (United Arab Emirates, 7/2016).	
	STEL: 543 mg/m ³ 15 minutes.	
	STEL: 125 ppm 15 minutes.	
	TWA: 100 ppm 8 hours.	
	TWA: 434 mg/m ³ 8 hours.	
	Cabinet Decree (12) of 2006 Regarding Re	
	Protection of Air from Pollution (United Ar STEL: 125 ppm 15 minutes.	ab Emirates, 5/2006).
	TWA: 434 mg/m ³ 8 hours.	
	STEL: 543 mg/m ³ 15 minutes.	
	TWA: 100 ppm 8 hours.	
	ACGIH TLV (United States, 7/2023). Ototox	cicant. Notes:
	Substances for which there is a Biological	Exposure Index or
	Indices 2002 Adoption.	
	TWA: 20 ppm 8 hours.	
procedures S ^r by	erence should be made to monitoring standards, such as th ndard EN 689 (Workplace atmospheres - Guidance for the a nhalation to chemical agents for comparison with limit value	assessment of exposure s and measurement
aı bi re	tegy) European Standard EN 14042 (Workplace atmosphe lication and use of procedures for the assessment of expos ogical agents) European Standard EN 482 (Workplace atm lirements for the performance of procedures for the measure nts) Reference to national guidance documents for method	ure to chemical and lospheres - General rement of chemical
	azardous substances will also be required.	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878					
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8.2 Exposure controls					
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			
Individual protection measu	ires				
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	:	Chemical splash goggles.			
Skin protection					
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	1	butyl rubber			
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.			
Other skin protection		Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Respiratory protection	1				
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.

English (GB)

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Black.
Odour	: Aromatic. [Slight]
Odour threshold	: Not available.
Melting point/freezing point	

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SECTION 9: Physical and chemical properties

		May start to solidify a based on data for the Weighted average: -	e following	ı ingredi					
Initial boiling point and boiling range	1	>37.78°C							
Flammability	1	Not available.							
Upper/lower flammability or explosive limits	:	Greatest known rang	reatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)						
Flash point	1	Closed cup: 37°C							
Auto-ignition temperature	4	Ingredient name		°C	°F		Method		
		2-methylpropan-1-ol		415	779				
Decomposition temperature	:	Stable under recomm	mended st	orage a	nd handling co	nditions	(see Sec	tion 7).	
рН	1	Not applicable.							
Viscosity	:	Kinematic (room ten Kinematic (40°C): >2		: >400 n	nm²/s				
Viscosity	:	> 100 s (ISO 6mm)							
Solubility(ies)	:								
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octanol/ water	:	Not applicable.							
Vapour pressure	:	In gradient neme	Vapoι	ır Press	sure at 20°C	Vapour pressure at 50°C			
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Evaporation rate	1	Highest known value butyl acetate	e: 0.84 (eth	nylbenze	ene) Weighted	l averag	e: 0.74co	mpared with	
Relative density	:	1.6							
Vapour density	1	Highest known value Weighted average: 9	•	, ,	bis-[4-(2,3-epc	xipropo	(i)phenyl]	propane).	
Explosive properties	:	The product itself is vapour or dust with a			the formation	of an ex	plosible n	nixture of	
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.				
article characteristics									
Median particle size	1	Not applicable.							
.2 Other 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.			

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SECTION 10: Stability and reactivity

10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s-[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.			0.0	
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	-

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 Eyes - Redness of the conjunctivae	Rabbit Rabbit	- 0.4	24 hours 24 hours	-
xylene	Skin - Oedema Skin - Erythema/Eschar Skin - Mild irritant Skin - Moderate irritant	Rabbit Rabbit Rabbit Rabbit	0.5 0.8 - -	4 hours 4 hours 4 hours 24 hours 500 mg	-

Conclusion/Summary

Skin	
Eyes	

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory	
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

Conforms to Regulation (EC) No. 1907/20	006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 11: Toxicological information

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 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
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure	: Not available.	
Potential acute health effe	ects	
Inhalation	: No known significant effects or critical hazards.	
Indestion	: No known significant effects or critical hazards.	

ingestion	: No known significant effects or critical nazards.
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	physical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate	effects as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.

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SECTION 11: Toxicological information

Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.
Dualaw washing was a start a sufficient	terre de cluis and accessionitations. Oca die a and anis die a duate erre de la merful if interlad

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

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	In	oculum
ethylbenzene	-	79 % - Readily - 10 da	79 % - Readily - 10 days		-	
Conclusion/Summary	no data available on the mixtu	ure itself.				
Product/ingredient name		Aquatic half-life	Photo	olysis	Biode	gradability
bis-[4-(2,3-epoxipropoxi)phenyl]propane xylene ethylbenzene		- - -	- - -		Not rea Readil Readil	у

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
X lene	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	

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
øs-[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
Epoxy 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
Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment method	5
<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue	(EWC)

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SECTION 13: Disposal considerations

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

<u>ckaging</u> 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 cata		uropean waste catalogue (EWC)
Container	15 01 06 mi	xed packaging
Special precautions	taken when handling empt Empty containers or liners residues may create a hig Do not cut, weld or grind u	ainer must be disposed of in a safe way. Care should be tied containers that have not been cleaned or rinsed out. may retain some product residues. Vapour from product hly flammable or explosive atmosphere inside the container. Ised containers unless they have been cleaned thoroughly of spilt material and runoff and contact with soil, waterways,

SECTION 14: Transport information

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

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are user upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	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 substand	<u>ces (1005/2009/EU)</u>
Notlisted	

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	CLP = C 1272/20 DNEL = EUH sta PNEC =	cute Toxicity Estimate Classification, Labelling and Packaging Regulation [Regulation (EC) No. 08] Derived No Effect Level tement = CLP-specific Hazard statement Predicted No Effect Concentration REACH Registration Number
Full text of abbreviated H statements	: H225 H226 H304 H312 H315 H317 H318 H319 H332 H335 H336 H373 H411 H412 H413	 Highly flammable liquid and vapour. Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
Full text of classifications		

[CLP/GHS]

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SECTION 16: Other	r information		
	: 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) AQUATIC HAZARD - C LONG-TERM (CHRONIC) AQUATIC HAZARD - C ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Cat SERIOUS EYE DAMAGE/EYE IRRITATION - Cat FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEA EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	Category 3 Category 4 egory 1 egory 2 .TED
<u>History</u> Date of issue/ Date of revision	: 3 September 2024		
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Prepared by	: EHS		
Version	: 3		

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