SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 25 July 2024

Version

: 3.02

undertaking	
Product name	: SIGMASHIELD 905 BASE BLACK
Product code	: 00254215
Other means of identificat	
Not available.	
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier o	f the safety data sheet
Sigma Paint Saudi Arabia Lto PO Box 7509	J.
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 number	: 00966 138473100 extn 1001

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture : Mixture **Product definition** Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Skin Irrit. 2, H315

Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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 **United Arab Emirates**

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

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SECTION 2: Hazards identification

ee ekin innitetien
es skin irritation. cause an allergic skin reaction. es serious eye irritation. to aquatic life with long lasting effects.
protective gloves. Wear eye or face protection. Avoid release to the environment. breathing vapour. Wash thoroughly after handling.
ct spillage.
pplicable.
se of contents and container in accordance with all local, regional, national and ational regulations. , P273, P261, P264, P391, P501
-(2,3-epoxipropoxi)phenyl]propane exanediol, reaction products with epichlorohydrin ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)
ains epoxy constituents. May produce an allergic reaction.
pplicable.
pplicable.
pplicable.
nixture does not contain any substances that are assessed to be a PBT or a vPvB.
known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ቓís-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥25 - ≤50	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]
1,6-Hexanediol, reaction products with epichlorohydrin	REACH #: 01-2119463471-41 EC: 618-939-5 CAS: 933999-84-9	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
		English	(GB) United Arab Er	nirates	2/14

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

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SECTION 3: Co	omposition/informat	tion on i	ngredients	
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5		Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ [1] [2] kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l

	Index: 603-057-00-5					
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	<1.0	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1] [2]	
zinc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≤0.30	· · · · · · · · · · · · · · · · · · ·	M [Acute] = 1 M [Chronic] = 1	[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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

easures
: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
: 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.
: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	ymptoms

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SECTION 4: First aid	l measures
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
Ingestion	: No specific data.
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: Firefigh	ting measures
5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic 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
		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.
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, protective 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. 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".			

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EL	U)
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SECTION 6: Accidental release measures

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. Collect spillage.			
6.3 Methods and materia	I for containment and cleaning up			
Small spill	: Stop leak if without risk. Move containers from spill area. 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. 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 spill 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.

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SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values	
ralc , not containing asbestiform fibres	 Abu Dhabi - OSHAD - Occupational air quality threshold values (United Arab Emirates, 7/2016). TWA: 2 mg/m³ 8 hours. Form: measured as respirable fract the aerosol Cabinet Decree (12) of 2006 Regarding Regulation Conce Protection of Air from Pollution (United Arab Emirates, 5/2). TWA: 2 mg/m³ 8 hours. ACGIH TLV (United States, 7/2023). 	tion of erning
glass, oxide, chemicals	TWA: 2 mg/m ³ 8 hours. Form: Respirable Abu Dhabi - OSHAD - Occupational air quality threshold values (United Arab Emirates, 7/2016). [synthetic vitreous continuous filament glass fibers]	s fibers,
	TWA: 5 mg/m ³ 8 hours. Form: measured as inhalable fractional aerosol STEL: 1 f/cc 15 minutes. Form: respirable fibers: length > 5 aspect ratio > 3:1, as determined by the membrane filter met 400-450 X magnification (4-mm objective), using phase-contri- illumination ACGIH TLV (United States). TWA: 1 f/cc Form: Continuous filament glass fibres TWA: 5 mg/m ³ , (Inhalable) Form: Continuous filament glass TWA: 3 mg/m ³ Form: Respirable TWA: 10 mg/m ³ Form: Total dust ACGIH TLV (United States, 7/2023). [Continuous filament fibers] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction TWA: 1 f/cc 8 hours. Form: Respirable fibers: length greater uM; aspect ratio equal to or greater than 3:1 as determined b membrane filter method at 400-450X magnification (4-mm of phase contrast illumination.	μm; hod at rast s fibres t glass r than 5 by the
carbon black, respirable powder	 Abu Dhabi - OSHAD - Occupational air quality threshold values (United Arab Emirates, 7/2016). TWA: 3.5 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerence of Air from Pollution (United Arab Emirates, 5, TWA: 3.5 mg/m³ 8 hours. ACGIH TLV (United States, 7/2023). Notes: Substance ide by other sources as a suspected or confirmed human carcinogen. 1996 Adoption Refers to Appendix A Carcin TWA: 3 mg/m³ 8 hours. 	erning /2006). entified
procedures Standard EN by inhalation strategy) Eu application a biological ag requirement agents) Ref	should be made to monitoring standards, such as the following: European Standard EN 14042 (Workplace atmospheres - Guidance for the assessment of expropean Standard EN 14042 (Workplace atmospheres - Guide for to and use of procedures for the assessment of exposure to chemical gents) European Standard EN 482 (Workplace atmospheres - Genets for the performance of procedures for the measurement of chemical substances will also be required.	exposure ment the and neral ical

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8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measu	<u>es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: 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.
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	: Characteristic.			
Odour threshold	: Not available.			
Melting point/freezing point	: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: 1.46°C (34.6°F)			
Initial boiling point and boiling range	: >37.78°C			
Flammability	: Not available.			
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SECTION 9: Physical a	nd	chemical prop	perties					
Upper/lower flammability or explosive limits	:	Greatest known ran	ge: Lower:	1.3% L	Jpper: 13% (b	enzyl al	cohol)	
Flash point	1	Closed cup: 100°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		benzyl alcohol 436 816.8						
Decomposition temperature pH Viscosity Solubility(ies)		Stable under recomi Not applicable. insol Kinematic (40°C): >:	uble in wa	-	nd handling co	ondition	s (see Sec	tion 7).
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octano water	I/ :	Not applicable.						
Vapour pressure		Ingredient name	Vapour Pressure at 20°C		Va	Vapour pressure at 50°C		
		ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		benzyl alcohol	0.05	0.0067				
		benzyr alconol	0.05					
Evaporation rate	:	0.007 (benzyl alcoho		ed with t	outyl acetate			
				ed with t	utyl acetate		 	
Relative density	:	0.007 (benzyl alcoho 1.26 Fighest known value	ol) compare	-=1) (t	•	xipropo	oxi)phenyl]p	propane).
Relative density Vapour density	:	0.007 (benzyl alcoho 1.26	e: 11.7 (Ai 10.37 (Ai not explos	- = 1) (t = 1) ve, but	bis-[4-(2,3-epc			
Relative density Vapour density Explosive properties	: :	0.007 (benzyl alcoho 1.26 Mighest known value Weighted average: The product itself is	bl) compar e: 11.7 (Ai 10.37 (Air not explos air is possi	⁻ = 1) (k = 1) ive, but ble.	bis-[4-(2,3-epc			
Relative density Vapour density Explosive properties Oxidising properties	: :	0.007 (benzyl alcoho 1.26 Mghest known value Weighted average: The product itself is vapour or dust with a	bl) compar e: 11.7 (Ai 10.37 (Air not explos air is possi	⁻ = 1) (k = 1) ive, but ble.	bis-[4-(2,3-epc			
Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size	::	0.007 (benzyl alcoho 1.26 Mghest known value Weighted average: The product itself is vapour or dust with a	bl) compar e: 11.7 (Ai 10.37 (Air not explos air is possi	⁻ = 1) (k = 1) ive, but ble.	bis-[4-(2,3-epc			
Relative density Vapour density Explosive properties Oxidising properties article characteristics	::	0.007 (benzyl alcoho 1.26 Mghest known value Weighted average: 7 The product itself is vapour or dust with a Product does not pre	bl) compar e: 11.7 (Ai 10.37 (Air not explos air is possi	⁻ = 1) (k = 1) ive, but ble.	bis-[4-(2,3-epc			

SECTION 10: Stability and reactivity

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10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
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.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	: The product is stable.
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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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	-
1,6-Hexanediol, reaction products with	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
epichlorohydrin		Female		
	LD50 Oral	Rat - Male,	2189 mg/kg	-
		Female	0.0	
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m ³	4 hours
	mists		Ū	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-1-amide)	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Zinc powder - zinc dust (stabilized)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists			
	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
s-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar		0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

Conclusion/Summary

: There are no data available on the mixture itself.

Eyes

Skin

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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising
Conclusion/Summary			

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

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SECTION 11: Toxico	logical information
Not available.	
Specific target organ toxici	ty (repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
Information on likely routes of exposure	: Not available.
Potential acute health effect	ts
Inhalation	 No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to the pl	nysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	ects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed 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.

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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SECTION 11: Toxicological information

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
øís-[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
1,6-Hexanediol, reaction products with epichlorohydrin	Acute EC50 47 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 30 mg/l Fresh water	Fish	96 hours
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - <i>Daphnia</i> <i>magna</i>	48 hours
Zinc powder - zinc dust (stabilized)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 354 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
	Chronic LC10 185 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	30 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
	OECD 301D Ready Biodegradability - Closed Bottle Test	47 % - Not readily - 28 days	-	-
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
b is-[4-(2,3-epoxipropoxi)phenyl]propane 1,6-Hexanediol, reaction products with epichlorohydrin benzyl alcohol N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	- - -	- - - -	Not readily Not readily Readily Readily

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

<u> </u>			
Product/ingredient name	LogPow	BCF	Potential
	0.822	-	Low
benzyl alcohol N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	0.87 >6	-	Low 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 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 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 weets estales	

European waste catalogue (EWC)

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
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 wher 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.	

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Code

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi) phenyl]propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	Ш	Ш	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	<mark>≬</mark> bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional infor	mation		
ADR/RID	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.		
Tunnel code	: (-)		
IMDG	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. 		
ΙΑΤΑ			
14.6 Special pro user	ecautions 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 according to IN instruments			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market

dangerous substances, mixtures and articles Other national and international regulations.

and use of certain

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SECTION 15: Reg	ulatory information		
Explosive precursors Ozone depleting subst Not listed.	: Not applicable. ances (1005/2009/EU)		
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.		
SECTION 16: Othe	er information		
Indicates information the second s	nat has changed from previously is	sued version.	
Abbreviations and acronyms	: ATE = Acute Toxicity Estir CLP = Classification, Labe 1272/2008] DNEL = Derived No Effect EUH statement = CLP-spe PNEC = Predicted No Effe RRN = REACH Registration	elling and Packaging Regulation [Reg t Level ecific Hazard statement ect Concentration	gulation (EC) No.
Full text of abbreviated H statements	H315 Causes skin irrita H317 May cause an al H319 Causes serious H322 Harmful if inhale H400 Very toxic to aqu H410 Very toxic to aqu H411 Toxic to aquatic	 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H32 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. 	
Full text of classification [CLP/GHS]		ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATION LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT SERIOUS EYE DAMAGE/EYE IRF SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category	IC HAZARD - Category IC HAZARD - Category IC HAZARD - Category RITATION - Category 2 Category 2 1
<u>History</u> Date of issue/ Date of	: 25 July 2024	5,	
revision	20 July 2024		

Date of previous issue	: 28 March 2024
Prepared by	: EHS
Version	: 3.02

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.