SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 9 August 2024

Version

: 4.03

SECTION 1: Identific undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMAWELD 199 PASTE GREY
Product code	: 00157924
Other means of identificat	ion
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 of	f the safety data sheet
Sigma Paint Saudi Arabia Lto	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. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 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

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SECTION 2: Hazards	lentification
Hazard pictograms	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic 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 releas the environment. Avoid breathing vapour.
Response	Collect spillage.
Storage	Not applicable.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P391, P501
Hazardous ingredients	Fatty acids, C18-unsatd., trimers, compds. with oleylamine Fatty acids, tall-oil, compds. with oleylamine
Supplemental label elements	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Special packaging requirem	i <u>ts</u>
Containers to be fitted with child-resistant fastenings	Not applicable.
Tactile warning of danger	Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	This mixture does not contain any substances that are assessed to be a PBT or a vF
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
zinc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥25 - ≤50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - <20	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]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥5.0 - ≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[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]
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥1.0 - ≤4.0	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
Fatty acids, C18-unsatd., trimers, compds. with oleylamine	REACH #: 01-2119971821-33 CAS: 147900-93-4	≤0.30	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) (oral) Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg	[1]
Fatty acids, tall-oil, compds. with oleylamine	REACH #: 01-2119974148-28 EC: 288-315-1 CAS: 85711-55-3	≤0.30	Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 (gastrointestinal tract) (oral)	-	[1]
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2020/878	

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

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and pxylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effect	
Eye contact	auses serious eye irritation.
Inhalation	lo known significant effects or critical hazards.
Skin contact	auses skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	lo known significant effects or critical hazards.
Over-exposure signs/sympt	
Eye contact	Adverse symptoms may include the following: pain or irritation vatering edness
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: rritation edness dryness gracking
Ingestion	lo specific data.

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SECTION 4: First aid	measures
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: 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 fi	rom the substance or mixture
Hazards from the substance or mixture	: Highly 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 very 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. 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. Collect spillage.

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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

titanium dioxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p somers)] 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 Regulation Concerning Protection of Air from Pollution (United Arab 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-xylene and mixtures
1-methoxy-2-propanol	containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.
1-methoxy-2-propanol	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 10 mg/m ³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m ³ 8 hours. ACGIH TLV (United States, 7/2023). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles
	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 369 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 553 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 150 ppm 15 minutes. TWA: 369 mg/m ³ 8 hours. STEL: 553 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). STEL: 369 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m ³ 8 hours. TWA: 184 mg/m ³ 8 hours.
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m ³ 8 hours. Form: fumes STEL: 10 mg/m ³ 15 minutes. Form: fumes Abu Dhabi - OSHAD - Occupational air quality threshold limit

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ethylbenzene	of the aerosol and fume TWA: 2 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol and fume ACGIH TLV (United States, 7/2023). Notes: Respirable fraction; see Appendix C, paragraph C. ACGIH 2003 Adoption STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction Abu Dhabi - OSHAD - Occupational air quality 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 Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 125 ppm 15 minutes. 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). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption. TWA: 20 ppm 8 hours.
Isopropyl alcohol	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 492 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 984 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 500 ppm 15 minutes. TWA: 983 mg/m³ 8 hours. STEL: 1230 mg/m³ 15 minutes. TWA: 400 ppm 8 hours. ACGIH TLV (United States, 7/2023). Notes: Refers to Appendix A carcinogens. ACGIH 2003 Adoption STEL: 400 ppm 15 minutes.
Zeolites	TWA: 200 ppm 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [aluminum metal and insoluble compounds] TWA: 1 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol ACGIH TLV (United States, 7/2023). [Aluminum, metal and insoluble compounds] TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction
procedures	Ference should be made to monitoring standards, such as the following: European ndard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure nhalation to chemical agents for comparison with limit values and measurement ategy) European Standard EN 14042 (Workplace atmospheres - Guide for the plication and use of procedures for the assessment of exposure to chemical and ogical agents) European Standard EN 482 (Workplace atmospheres - General uirements for the performance of procedures for the measurement of chemical ents) Reference to national guidance documents for methods for the determination mazardous substances will also be required

of hazardous substances will also be required.

8.2 Exposure controls

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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of 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 measured	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	: 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	:
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Grey.
Odour	: Aromatic.
Odour threshold	: Not available.
Melting point/freezing point	: May start to solidify at the following temperature: -90°C (-130°F) This is based on data for the following ingredient: Isopropyl alcohol. Weighted average: -94.89°C (-138.8°F)

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Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	lot available.							
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.48%	Upper: 13.74%	% (1-met	hoxy-2-pr	opanol)	
Flash point	:	Closed cup: 20.4°C							
Auto-ignition temperature	:	290°C (554°F)							
Decomposition temperature		Stable under recomm	nended st	orage a	nd handling co	onditions	(see Sec	tion 7).	
рН	1	Not applicable. insolu		ter.					
Viscosity	1	Kinematic (40°C): >2	21 mm²/s						
Solubility(ies)	:								
Media		Result	Result						
cold water		Not soluble							
Partition coefficient: n-octanol water	/:	Not applicable.							
Vapour pressure	:	Ingradient nome	Vapour Pressure at 20°C			Vapo	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		Isopropyl alcohol	33.00268	4.4					
Evaporation rate	:	Highest known value butyl acetate	: 1.7 (Isop	oropyl al	cohol) Weight	ed avera	ıge: 0.860	compared wi	
Relative density	:	2.12							
Vapour density		Highest known value	•	,	, ,		•	· ,	
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	sent an o	xidizing	hazard.				
Particle characteristics									
Median particle size	- 1	Not applicable.							
.2 Other information									
No additional information.									

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Zinc powder - zinc dust (stabilized)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists		, C	
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
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	-
Isopropyl alcohol	LC50 Inhalation Vapour	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Fatty acids, C18-unsatd., trimers, compds. with oleylamine	LD50 Oral	Rat	>1570 mg/kg	-

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

Irritation/Corrosion

Product/ingredien	it name	Result	Species	Score	Exposure	Observation
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•	+	-	•
Skin	: There are	no data available on the r	mixture itself			
Eyes	: There are	no data available on the r	mixture itself			
Respiratory	: There are	no data available on the r	mixture itself	-		
Sensitisation						
Conclusion/Summary						
Skin	: There are	e no data available on the	mixture itsel	f.		
Respiratory	: There are	e no data available on the	mixture itsel	f.		
Mutagenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Specific target organ toxi	i <mark>city (single ex</mark> p	<u>oosure)</u>				

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SECTION 11: Toxicological information

Product/ingredient name		Category		Route of exposure	Target organs
xylene 1-methoxy-2-propanol propan-2-ol		Category 3 Category 3 Category 3		-	Respiratory tract irritation Narcotic effects Narcotic effects
Specific target organ toxicity (repeated	<u>exposure)</u>				
Product/ingredient name		Category		Route of exposure	Target organs
ethylbenzene Fatty acids, C18-unsatd., trimers, compds	-			- oral	hearing organs gastrointestinal tract, immune system, liver
Fatty acids, tall-oil, compds. with oleylami	ne	Catego	ory 2	oral	gastrointestinal tract
Aspiration hazard					
Product/ingredient n	ame				Result
xylene ethylbenzene				RATION HAZARD RATION HAZARD	
Information on likely : Not avail routes of exposure	lable.				
Ingestion: No knowSkin contact: CausesEye contact: CausesSymptoms related to the physical, cherInhalation: No speciesIngestion: No speciesSkin contact: Adverseirritation: rednessdrynesscrackingEye contact: Adverse	redness dryness cracking : Adverse symptoms may include the following: pain or irritation			allergic skin reaction.	
Delayed and immediate effects as well	as chronic effects	from sl	<u>nort a</u>	nd long-term exp	<u>osure</u>
Short term exposurePotential immediate: Not availeffects	lable.				
Potential delayed effects : Not avail	lable.				
Potential immediate : Not avail effects	lable.				
Potential delayed effects : Not avail Potential chronic health effects Not available.	lable.				
Conclusion/Summary : Not avail	lable.				

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SECTION 11: Toxicological information

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
Zínc powder - zinc dust (stabilized)	Acute EC50 0.106 mg/l	Algae -	72 hours
	Fresh water	Pseudokirchneriella	
		subcapitata	
	Acute EC50 354 µg/l Fresh	Daphnia - <i>Daphnia</i>	48 hours
	water	magna	
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia</i>	21 days
		<i>magna</i> - Neonate	
	Chronic LC10 185 µg/l Fresh	Fish - Oncorhynchus	30 days
	water	<i>mykiss</i> - Juvenile	
		(Fledgling, Hatchling,	
		Weanling)	
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - <i>Daphnia</i>	48 hours
	Fresh water	<i>magna</i> - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
Isopropyl alcohol	Acute EC50 10100 mg/l	Daphnia - <i>Daphnia</i>	48 hours
	Fresh water	magna	

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-
Conclusion/Summary	: There are no data	a available on the mixture itself.		

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SECTION 12: Ecological information

U			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene	-	-	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
ethylbenzene	3.6	79.43	Low
propan-2-ol	0.05	-	Low

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.

recycling is not feasible.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

12.1 Monto trantmont mothodo

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).

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

Type of packaging		European waste catalogue (EWC)
Container	15 01 06	mixed packaging

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

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SECTION 13: Disposal considerations

Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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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	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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 IMO	
instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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.

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SECTION 15: Regula	atory informatio	n	
Annex XVII - Restrictions			
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles			
Other national and international	tional regulations.		
Explosive precursors	: Not applicable.		
Ozone depleting substand Not listed.	<u>ces (1005/2009/EU)</u>		
15.2 Chemical safety assessment	: No Chemical Safety	y Assessment has been carried out.	
SECTION 16: Other	information		
Indicates information that	has changed from previ	iously issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived N EUH statement = 0	on, Labelling and Packaging Regulation [Re o Effect Level CLP-specific Hazard statement No Effect Concentration	gulation (EC) No.
Full text of abbreviated H statements	H226 Flammat H302 Harmful i H304 May be fa H312 Harmful i H315 Causes s H317 May caus H318 Causes s H319 Causes s H319 Causes s H332 Harmful i H335 May caus H336 May caus H373 May caus H400 Very toxi H410 Very toxi H411 Toxic to a	 H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. 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 classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATI LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Categor SERIOUS EYE DAMAGE/EYE IR SERIOUS EYE DAMAGE/EYE IR FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TO EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TO	TIC HAZARD - Category 1 TIC HAZARD - Category 2 TIC HAZARD - Category 3 y 1 RITATION - Category 1 RITATION - Category 2 y 2 y 3 - Category 2 y 1 y 1 KICITY - REPEATED

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SECTION 16: Other information

EXPOSURE - Category 3

<u>History</u>	
Date of issue/ Date of revision	: 9 August 2024
Date of previous issue	: 15 March 2024
Prepared by	: EHS
Version	: 4.03

<u>Disclaimer</u>

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