SAFETY DATA SHEET

: 3.05

United Arab

Date of issue/Date of revision

: 2 July 2024

Version

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

1.1 Product identifier	
Product name	: SIGMAWELD 190 PASTE REDBROWN
Product code	: 000001099125
Other means of identificatio	n
0 0160932; 00185986; 002803	17; 00478355
1.2 Relevant identified uses o	f 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 t	he safety data sheet
Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	

e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS

1.4 Emergency telephone : 00966 138473100 extn 1001 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic 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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SIGMAWELD 190 PASTE REI	BROWN	
SECTION 2: Hazards	dentification	
Hazard pictograms		
Signal word	: Warning	
Hazard statements	 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 relet the environment. Avoid breathing vapour.	ease to
Response	: Collect spillage.	
Storage	Not applicable.	
Disposal	 Dispose of contents and container in accordance with all local, regional, national a international regulations. P280, P210, P273, P261, P391, P501 	and
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	<u>nts</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	a vPvE
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	≥10 - ≤25	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]
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]
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]
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 - ≤3.8	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]
1	1	English	(GB) United Arab Er	nirates	3/17

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

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SECTION 3: Composition/information on ingredients

	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.

Туре

[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

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

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Specific treatments	: No specific treatment.
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Ingestion	: No specific data.
Skin contact	irritation redness dryness cracking
Inhalation Skin contact	No specific data.Adverse symptoms may include the following:
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Over-exposure signs/sy	
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Inhalation	: No known significant effects or critical hazards.
Eye contact	: Causes serious eye irritation.
Potential acute health ef	ifects
4.2 most important sympt	toms and enects, both acute and delayed

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 SECTION 5: Eirofighting magazures

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 f	om the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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, 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. 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
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.

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SECTION 6: Accidental release measures

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.

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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
xylene	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 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/m³ 8 hours. STEL: 651 mg/m³ 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 651 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.
zinc oxide	 Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m³ 8 hours. Form: fumes STEL: 10 mg/m³ 15 minutes. Form: fumes Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 10 mg/m³ 15 minutes. Form: measured as respirable fraction of the aerosol and fume TWA: 2 mg/m³ 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/m³ 15 minutes. Form: Respirable fraction TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
1-methoxy-2-propanol	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 369 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 553 mg/m³ 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/m³ 8 hours. STEL: 553 mg/m³ 15 minutes. TWA: 369 mg/m³ 15 minutes. TWA: 369 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). STEL: 369 mg/m³ 15 minutes. TWA: 100 ppm 15 minutes. TWA: 100 ppm 15 minutes. TWA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
diiron trioxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).
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	TWA: 5 mg/m ³ 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: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 7/2023). Notes: Refers to Appendix B Substances of Variable Composition. Respirable fraction; see Appendix C, paragraph C.
crystalline silica, respirable powder (>10 microns)	TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 0.1 mg/m ³ 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [silica] TWA: 10 mg/m ³ 8 hours. Form: inhalable particle TWA: 3 mg/m ³ 8 hours. Form: respirable particulate Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [quartz silica crystalline– α - quartz and cristobalite] TWA: 0.025 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol ACGIH TLV (United States, 7/2023). [Silica, crystalline] Notes: Respirable fraction; see Appendix C, paragraph C.
ethylbenzene	Respirable fraction, see Appendix C, paragraph C.TWA: 0.025 mg/m³ 8 hours. Form: RespirableAbu Dhabi - OSHAD - Occupational air quality threshold limitvalues (United Arab Emirates, 7/2016).STEL: 543 mg/m³ 15 minutes.STEL: 125 ppm 15 minutes.TWA: 100 ppm 8 hours.TWA: 434 mg/m³ 8 hours.Cabinet Decree (12) of 2006 Regarding Regulation ConcerningProtection of Air from Pollution (United Arab Emirates, 5/2006).STEL: 125 ppm 15 minutes.TWA: 434 mg/m³ 8 hours.STEL: 125 ppm 15 minutes.STEL: 543 mg/m³ 15 minutes.
Isopropyl alcohol	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. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 492 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. STEL: 984 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
Zeolites	Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 500 ppm 15 minutes. TWA: 983 mg/m ³ 8 hours. STEL: 1230 mg/m ³ 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. TWA: 200 ppm 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [aluminum metal and insoluble compounds]
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		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
Recommended monitoring procedures	Standard EN 6 by inhalation to strategy) Euro application and biological agen requirements agents) Refer	build be made to monitoring standards, such as the following: European 689 (Workplace atmospheres - Guidance for the assessment of exposure to chemical agents for comparison with limit values and measurement opean Standard EN 14042 (Workplace atmospheres - Guide for the d use of procedures for the assessment of exposure to chemical and hts) European Standard EN 482 (Workplace atmospheres - General for the performance of procedures for the measurement of chemical rence to national guidance documents for methods for the determination substances will also be required.
8.2 Exposure controls		
Appropriate engineering controls	other engineer recommended	adequate ventilation. Use process enclosures, local exhaust ventilation or ring controls to keep worker exposure to airborne contaminants below an d or statutory limits. The engineering controls also need to keep gas, t concentrations below any lower explosive limits. Use explosion-proof lipment.
Individual protection measu	<u>res</u>	
Hygiene measures	eating, smokir Appropriate te Contaminated contaminated	forearms and face thoroughly after handling chemical products, before ng and using the lavatory and at the end of the working period. chniques should be used to remove potentially contaminated clothing. work clothing should not be allowed out of the workplace. Wash clothing before reusing. Ensure that eyewash stations and safety lose to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical spla	sh goggles.
Hand protection	worn at all time necessary. Co during use tha noted that the glove manufac protection time frequently repo (breakthrough When only brid (breakthrough The user must product is the	stant, impervious gloves complying with an approved standard should be es when handling chemical products if a risk assessment indicates this is onsidering the parameters specified by the glove manufacturer, check t the gloves are still retaining their protective properties. It should be time to breakthrough for any glove material may be different for different cturers. In the case of mixtures, consisting of several substances, the e of the gloves cannot be accurately estimated. When prolonged or eated contact may occur, a glove with a protection class of 6 time greater than 480 minutes according to EN 374) is recommended. ef contact is expected, a glove with a protection class of 2 or higher time greater than 30 minutes according to EN 374) is recommended. t check that the final choice of type of glove selected for handling this most appropriate and takes into account the particular conditions of use, the user's risk assessment.
Gloves	: butyl rubber	
Body protection	performed and handling this p static protectiv should include 1149 for furthe	ective equipment for the body should be selected based on the task being d the risks involved and should be approved by a specialist before product. When there is a risk of ignition from static electricity, wear anti- ve clothing. For the greatest protection from static discharges, clothing e anti-static overalls, boots and gloves. Refer to European Standard EN er information on material and design requirements and test methods.
Other skin protection	based on the t	otwear and any additional skin protection measures should be selected ask being performed and the risks involved and should be approved by a re handling this product.
Respiratory protection	:	

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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 a	and	chemical proper	ties		
The conditions of measurement of	of all	properties are at standard	temperature an	d pressure ur	nless otherwise indicated.
9.1 Information on basic physic	al a	nd chemical properties			
<u>Appearance</u>					
Physical state	:	Liquid.			
Colour	:	Brownish-red.			
Odour	1	Aromatic.			
Odour threshold	:	Not available.			
Melting point/freezing point	:				: (-130°F) This is based or ighted average: -94.92°C
Initial boiling point and	:	>37.78°C			
boiling range					
Flammability	1	Not available.			
Upper/lower flammability or explosive limits	:	Greatest known range: L	ower: 1.48% Up	oper: 13.74%	(1-methoxy-2-propanol)
Flash point	:	Closed cup: 26°C			
Auto-ignition temperature	:	Ingredient name	°C	°F	Method
		1-methoxy-2-propanol	270	518	
Decomposition temperature	:	Stable under recommend	led storage and	handling cond	ditions (see Section 7).
рН	:	Not applicable. insoluble	in water.	-	
Viscosity		Kinematic (40°C): >21 m	m²/s		

Viscosity	: Kinematic (40°C): >21 mm ² /s
Solubility(ies)	the second s
Media	Result
cold water	Not soluble
Dertition coefficients n	

Partition coefficient: n-octanol/ : Not applicable. water

Vapour pressure ŝ Vapour Pressure at 20°C Vapour pressure at 50°C **Ingredient name** mm Hg kPa Method mm kPa Method Hg 33.00268 4.4 Isopropyl alcohol : Highest known value: 1.7 (Isopropyl alcohol) Weighted average: 0.85compared with **Evaporation rate** butyl acetate **Relative density** : 1.95 Vapour density : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.43 (Air = 1) **Explosive properties** The product itself is not explosive, but the formation of an explosible mixture of 2 vapour or dust with air is possible. **Oxidising properties** : Product does not present an oxidizing hazard. Particle characteristics Median particle size : Not applicable.

9.2 Other information

No additional information.

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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.
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	:	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		J J	
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
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	-
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/ingredient name		Result	Species	Score	Exposure	Observation	
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary		l	I				
Skin	: There are	no data available on the r	nixture itself				
Eyes	: There are	: There are no data available on the mixture itself.					
Respiratory	: There are	: There are no data available on the mixture itself.					
Sensitisation							
Conclusion/Summary							
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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
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3		Narcotic effects
propan-2-ol	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 2 Category 2	oral	hearing organs gastrointestinal tract, immune system, liver
Fatty acids, tall-oil, compds. with oleylamine	Category 2		gastrointestinal tract

Aspiration hazard

Produ	ict/ingredient name	Result
xylene ethylbenzene		ATION HAZARD - Category 1 ATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health ef	fects	
Inhalation	: No known significant effects or critical haza	ards.
Ingestion	: No known significant effects or critical haza	ards.
Skin contact	: Causes skin irritation. Defatting to the skir	n. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the	e physical, chemical and toxicological characte	ristics
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include the followi irritation redness dryness cracking	ing:
Eye contact	: Adverse symptoms may include the followi pain or irritation watering redness	ing:
-	effects as well as chronic effects from short an	<u>id long-term exposure</u>
<u>Short term exposure</u>		
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SECTION 11: Toxicological information

		-
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ct	<u>s</u>
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	1	No known significant effects or critical hazards.
Other information	1	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
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
zinc oxide	Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water	Algae Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	72 hours 48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
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	Isopropyl alcohol	Chronic NOEC 1 mg/l Fresh water Acute EC50 10100 mg/l Fresh water	Daphnia - Ceriodaphnia Daphnia - Dap magna		- 48 hours	

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	ily - 10 days -		-
Conclusion/Summary	: There are no dat	a available on the mixture	itself.		
Product/ingredient name		Aquatic half-life Photolysis Biodegradal		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 ethylbenzene	3.6	- 79.43	Low	
propan-2-ol	0.05	-	Low	

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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 <u>Product</u>				
Methods of disposal :	of this product, sol requirements of er regional local auth via a licensed was	lutions and any by-pu nvironmental protect ority requirements. te disposal contracto	bided or minimised wherever possible. roducts should at all times comply with ion and waste disposal legislation and Dispose of surplus and non-recyclable or. Waste should not be disposed of u ne requirements of all authorities with	n the any e products untreated to
Hazardous waste	Yes.			
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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	
ackaging		
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 	
Type of packaging	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
Special precautions	: 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	

SECTION 14: Transport information

drains and sewers.

	ADR/RID	IMDG	IATA
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		
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.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pred user	cautions 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 ir according to IMC instruments	

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SECTION 15: Regulatory information				
15.1 Safety, health and environmental regulation	ons/legislation specific for the substance or mixture			
EU Regulation (EC) No. 1907/2006 (REACH)				
Annex XIV - List of substances subject to au	<u>ithorisation</u>			
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 and use of certain dangerous substances, mixtures and articles				
Other national and international regulations.				
Explosive precursors : Not applicable.				
Ozone depleting substances (1005/2009/EU)				
Not listed.				

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Indicates information that has changed from previously issued version.				
Abbreviations and acronyms	1272/2008] DNEL = Derived No Ef	abelling and Packaging Regulation [Regula fect Level -specific Hazard statement Effect Concentration	ation (EC) No.	
Full text of abbreviated H statements	H226Flammable liH302Harmful if swH304May be fatalH312Harmful in coH315Causes skinH317May cause atH318Causes serioH319Causes serioH322Harmful if inhH335May cause atH336May cause atH373May cause atH400Very toxic toH410Very toxic toH411Toxic to aquata	if swallowed and enters airways. ontact with skin. irritation. n allergic skin reaction. ous eye damage. ous eye irritation. naled. espiratory irritation. rowsiness or dizziness. amage to organs through prolonged or rep	eated exposure.	
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	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC H LONG-TERM (CHRONIC) AQUATIC LONG-TERM (CHRONIC) AQUATIC LONG-TERM (CHRONIC) AQUATIC ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRIT	HAZARD - Category 1 HAZARD - Category 2 HAZARD - Category 3 ATION - Category 1	
	En	nglish (GB) United Arab Emirates	16/17	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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			SECTION 16: Other information	
	Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2 STOT SE 3	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
<u>History</u>				
Date of issue/ Date of revision	: 2 July 2024			
Date of previous issue	: 29 May 2024			
Prepared by	: EHS			
Version	: 3.05			
Disalainean				

<u>Disclaimer</u>

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