SAFETY DATA SHEET

Date of issue/Date of revision

: 15 March 2024

Version

: 4.03



pPG

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

1.1 Product identifier	
Product name	: SIGMAWELD 190 PASTE REDBROWN
Product code	: 00280317
Other means of identification	on
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	the safety data sheet
Sigma Paint Saudi Arabia Ltd PO Box 7509, Dammam 314	
Saudi Arabia	-
Tel: 00966 138 47 31 00	
Fax: 00966 138 47 17 34	
e-mail address of person	: PS.ACEMEA@ppg.com
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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SECTION 2: Hazards	identification		
Hazard pictograms			
Signal word	: Warning		
Hazard statements	: Flammable liquid ar Causes skin irritatio May cause an allerg Causes serious eye Very toxic to aquatio	n. jic skin reaction.	
Precautionary statements			
Prevention	surfaces, sparks, op	ves. Wear eye or face protection. Keep av pen flames and other ignition sources. No s void breathing vapour.	
Response	: Collect spillage.		
Storage	: Not applicable.		
Disposal	: Dispose of contents international regulat P280, P210, P273,		, regional, national and
Hazardous ingredients		satd., trimers, compds. with oleylamine 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 requiren	<u>nents</u>		
Containers to be fitted with child-resistant fastenings	: Not applicable.		
Tactile warning of danger	: Not applicable.		
2.3 Other hazards			
Product meets the criteria for PBT or vPvB	: This mixture does n	ot contain any substances that are assess	ed to be a PBT or a vPvE
Other hazards which do not result in classification	: Prolonged or repeat	ted contact may dry skin and cause irritatio	on.

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	≥10 - ≤25	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]
		English	(GB) Saudi		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Co	mmission Regulation (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. <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

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 effects Eye contact : Causes serious eye irritation. Inhalation : No known significant effects or critical hazards. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms Eye contact 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 Inhalation : No specific data. Skin contact : Adverse symptoms may include the following: irritation redness Ingestion : No specific data. 4.3 Indication of any immediate 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.		English (G	B) Saudi Arabia	4/16
Eye contact : Causes serious eye irritation. Inhalation : No known significant effects or critical hazards. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms	Specific treatments	: No specific treatment.		
Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact: Adverse symptoms may include the following: pain or irritation watering rednessInhalation: No specific data.Skin contact: Adverse symptoms may include the following: rednessInhalation: No specific data.Skin contact: Adverse symptoms may include the following: rednessInhalation: No specific data.Skin contact: Adverse symptoms may include the following: redness dryness crackingIngestion: No specific data.	Notes to physician			large
Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact: Adverse symptoms may include the following: pain or irritation watering rednessInhalation: No specific data.Skin contact: Adverse symptoms may include the following: rednessInhalation: No specific data.Skin contact: Adverse symptoms may include the following: rednessInhalation: No specific data.Skin contact: Adverse symptoms may include the following: riritation rednessInhalation: Cause symptoms may include the following: riritation redness dryness cracking	4.3 Indication of any imme	liate medical attention and special	treatment needed	
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Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact: Adverse symptoms may include the following: pain or irritation watering rednessInhalation: No specific data.Skin contact: Adverse symptoms may include the following:		dryness		
Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact: Adverse symptoms may include the following: pain or irritation watering redness	Skin contact		e the following:	
Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact: Adverse symptoms may include the following: pain or irritation watering	Inhalation	: No specific data.		
Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.	Eye contact	pain or irritation watering	the following:	
Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.				
Eye contact: Causes serious eye irritation.Inhalation: No known significant effects or critical hazards.	Ingestion	: No known significant effects or	critical hazards.	
Eye contact : Causes serious eye irritation.	Skin contact	: Causes skin irritation. Defatting	to the skin. May cause an allergic skin re	action.
	Inhalation	: No known significant effects or	critical hazards.	
Potential acute health effects	Eye contact	: Causes serious eye irritation.		
4.2 Most important symptoms and enects, both acute and delayed		,		

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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	rom 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

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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 ar 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			
viene		EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.			
1-methoxy-2-propanol		EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 568 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.			
ethylbenzene		EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.			
propan-2-ol		ACGIH TLV (United States, 1/2023). STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.			
Recommended monitoring : procedures	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as the following: European O (Workplace atmospheres - Guidance for the assessment of exposure chemical agents for comparison with limit values and measurement ean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and o) European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical icce to national guidance documents for methods for the determination			
		ostances will also be required.			
Appropriate engineering :	Use only with add other engineering recommended of	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof			
3.2 Exposure controls Appropriate engineering : controls Individual protection measures	Use only with add other engineering recommended of vapour or dust co ventilation equipr	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof			
Appropriate engineering : controls Individual protection measures	Use only with add other engineering recommended of vapour or dust co ventilation equipr Wash hands, for eating, smoking a Appropriate tech Contaminated wo contaminated clo	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof			
Appropriate engineering : controls Individual protection measures Hygiene measures :	Use only with add other engineering recommended of vapour or dust co ventilation equipr Wash hands, for eating, smoking a Appropriate tech Contaminated wo contaminated clo	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment. earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.			

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	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>				
Physical state	: Liquid.			
Colour	: Various			
Odour	: Aromatic.			
Odour threshold	: Not available.			
Melting point/freezing point	: May start to solidify at the follo data for the following ingredie (-138.9°F)			
nitial boiling point and boiling range	: >37.78°C			
Flammability	: Not available.			
Upper/lower flammability or explosive limits	: Greatest known range: Lower	:: 1.48% Up	per: 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 recommended s	storage and	handling cond	litions (see Section 7).
	: Not applicable. insoluble in wa	ater	-	. ,
рН	• Not applicable. It soluble in wa			

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SECTION 9: Physical and chemical properties

Media		Result						
cold water		Not soluble						
Partition coefficient: n-octa water	inol/ :	Not applicable.						
Vapour pressure	:		Vapou	Ir Pres	sure at 20°C	Vapo	our press	sure 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	e: 1.7 (Isop	propyl a	Icohol) Weigh	ted avera	ige: 0.850	compared w
		•						
Relative density		1.95						
		1.95 Highest known value	e: 3.7 (Air	= 1) (x	ylene). Weigh	ited avera	age: 3.43	(Air = 1)
Vapour density	:		not explos	ive, but	• • •		-	,
Vapour density Explosive properties	:	Highest known value The product itself is	not explos air is possi	ive, but ble.	the formation		-	. ,
Relative density Vapour density Explosive properties Oxidising properties varticle characteristics	:	Highest known value The product itself is vapour or dust with a	not explos air is possi	ive, but ble.	the formation		-	,

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

	-	
10.1 Reactivity	1	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

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
ℤnc powder - zinc dust (stabilized)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists			
	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.	LD50 Oral	Rat	>1570 mg/kg	-
with oleylamine				

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	-	24 hours 500 mg	-	
Conclusion/Summary			•			•
Skin	: There are	no data available on the r	nixture itself			
Eyes	: There are	no data available on the r	nixture itself			
Respiratory	: There are	no data available on the r	nixture itself			
<u>Sensitisation</u>						
Conclusion/Summary						
Skin	: There are	no data available on the	mixture itsel	f.		
Respiratory	: There are	no data available on the	mixture itsel [.]	f.		
<u>Mutagenicity</u>						
Conclusion/Summary	: There are	no data available on the				
Carcinogenicity						
Conclusion/Summary	: There are	no data available on the	mixture itsel ⁻	f.		
Reproductive toxicity						
Conclusion/Summary	: There are	no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There are	no data available on the	mixture itsel	f.		
Specific target organ toxi	<u>city (single exp</u>	<u>osure)</u>				

Product/ingredient name Category **Route of Target organs** exposure **x**ylene Category 3 Respiratory tract irritation -Narcotic effects 1-methoxy-2-propanol Category 3 -Category 3 Narcotic effects propan-2-ol

Specific target organ toxicity (repeated exposure)

Code : 00280317 Date of issue/Date of revision : 15 March 2024 SIGMAWELD 190 PASTE REDBROWN **SECTION 11: Toxicological information Product/ingredient name** Category **Route of Target organs** exposure ethylbenzene Category 2 hearing organs

Category 2

Category 2

oral

oral

gastrointestinal tract,

immune system, liver

gastrointestinal tract

Fatty acids, tall-oil, compds. with oleylamine Aspiration hazard

Fatty acids, C18-unsatd., trimers, compds. with oleylamine

Product/ingredient name Result ASPIRATION HAZARD - Category 1 **x**ylene ethylbenzene **ASPIRATION HAZARD - Category 1** Information on likely : Not available. routes of exposure Potential acute health effects Inhalation : No known significant effects or critical hazards.

: No known significant effects or critical hazards. Ingestion : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Skin contact : Causes serious eye irritation. Eye contact Symptoms related to the physical, chemical and toxicological characteristics : No specific data. Inhalation Ingestion : No specific data. **Skin contact** : Adverse symptoms may include the following: irritation redness dryness cracking Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<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	1	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.
Other information	1	Not available.

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SECTION 11: Toxicological information

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	Algae -	72 hours
	Fresh water	Pseudokirchneriella subcapitata	
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
Isopropyl alcohol	Acute EC50 10100 mg/l	, Daphnia - <i>Daphnia</i>	48 hours
,	Fresh water	magna	

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum	
ethylbenzene	-	79 % - Readily - 10 days	;	-		-	
Conclusion/Summary : There are no data available on the mixture itself.							
Product/ingredient name Aquatic half-life Photolysis Biodegradability							
<mark>xy</mark> lene ethylbenzene		-	-			adily adily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	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

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SECTION 12: Ecological information

Soil/water partition coefficient (Koc) **Mobility**

: Not available.

: 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 waste catalogue (EWC)

Waste code	Waste designation waste paint and varnish containing organic solvents or other hazardous substances		
08 01 11*			
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, 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	III	III	III
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 ≤5 L or ≤5 kg.	
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.		
14.6 Special pre 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 i according to IM		

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

<u>Annex XIV</u>

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.

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SECTION 15: Regula	atory information		
15.2 Chemical safety assessment	: No Chemical Safety Asse	essment has been carried out.	
SECTION 16: Other	information		
Indicates information that	has changed from previously	issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived No Effe	belling and Packaging Regulation [Re ect Level pecific Hazard statement ffect Concentration	gulation (EC) No.
Full text of abbreviated H statements	H226Flammable liqH302Harmful if swaH304May be fatal ifH312Harmful in corH315Causes skin irH317May cause anH318Causes seriouH319Causes seriouH32Harmful if inhaH335May cause resH336May cause datH400Very toxic to aH410Very toxic to aquat	swallowed and enters airways. Itact with skin. ritation. allergic skin reaction. Is eye damage. Is eye irritation. aled. spiratory irritation. owsiness or dizziness. mage to organs through prolonged or	repeated 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 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 - Category SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	TIC HAZARD - Category 2 TIC HAZARD - Category 2 TIC HAZARD - Category 2 TIC HAZARD - Category 3 TIC HAZARD - Category 1 RITATION - Category 1 RITATION - Category 2 2 2 3 - Category 2 1 1 A CICITY - REPEATED
<u>History</u> Date of issue/ Date of	: 15 March 2024		
revision			
Date of previous issue	: 20 December 2023		
Prepared by Version	: EHS : 4.03		

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SECTION 16: Other information

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.