SAFETY DATA SHEET

Date of issue/Date of revision

: 12 April 2024

Version

: 3.01

Saudi Arabia



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

1.1 Product identifier		
Product name :	SIGMA SAILADVANCE GX	REDBROWN
Product code :	00371293	
Other means of identification		

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	: Antifouling products
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 3147 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone number	: 00966 138473100 extn 1001

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 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 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	: Danger		
Hazard statements	: Flammable liquid and Harmful if swallowed. May cause an allergic Causes serious eye da May cause respiratory Suspected of causing Very toxic to aquatic lit	skin reaction. amage. irritation.	
Precautionary statements		0	
Prevention		s, protective clothing and eye or face pro arks, open flames and other ignition sou ment.	
Response	: Collect spillage.		
Storage	: Store in a well-ventilat	ed place. Keep container tightly closed.	
Disposal	international regulation	nd container in accordance with all local, ns. 91, P403 + P233, P501	, regional, national and
Hazardous ingredients	xylene Terpineol	omatics < 0.1% cumene adecamide-N-methylene]-benzene	
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>ients</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 assess	ed to be a PBT or a vPvI
Other hazards which do not result in classification	: Prolonged or repeated	l contact may dry skin and cause irritatio	n.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dicopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10	[1] [2]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥10 - ≤25	Skin Sens. 1, H317	-	[1] [2]
zineb (ISO)	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≥5.0 - ≤10	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥5.0 - ≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]
Hydrocarbons, C9, aromatics < 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥5.0 - ≤9.8	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1]
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]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	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]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≥1.0 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
Terpineol	REACH #: 01-2119553062-49	≥0.30 - ≤2.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
		English	(GB) Saudi	Arabia	3/16

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
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SECTION 3: Composition/information on ingredients

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	EC: 232-268-1 CAS: 8000-41-7		Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411		
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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

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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sympto	<u>ms</u>

English (GB)

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SECTION 4: First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
	•

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	

5.2 Special hazards arising from the substance or mixture

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 nitrogen oxides sulfur 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 Europear standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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. Do not breathe 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.
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

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 spill product.
 6.4 Reference to other

sections 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.

English (GB)

Saudi Arabia

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Conform 2020/878	U (C) No. 1907/2006 (REA	CH), Annex II, as amended by Commissior	Regulation (EU)
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SECTION 7: Handling and storage

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. Store locked up. 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.
	Section to for incompatible materials before nandling of use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
dícopper oxide	ACGIH TLV (United States, 1/2023). [Copper Fume] TWA: 0.2 mg/m ³ 8 hours. Form: Fume
rosin	ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitiser. Inhalation sensitiser. TWA: 0.001 mg/m ³ , (as total Resin acids) 8 hours. Form: Inhalable fraction
4-methylpentan-2-one	EU OEL (Europe, 1/2022). STEL: 208 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
xylene	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.
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	ACGIH TLV (United States). TWA: 3 mg/m ³ , (Respirable fraction)

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination 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 or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>sures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: Chemical splash goggles and face shield.
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	1 · · · · · · · · · · · · · · · · · · ·
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Brownish-red.
Odour	: Aromatic. [Slight]
Odour threshold	: Not available.
Melting point/freezing point	 May start to solidify at the following temperature: -35.9 to -28.2°C (-32.6 to -18.8°F) This is based on data for the following ingredient: Terpineol. Weighted average: -74.78°C (-102.6°F)

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SECTION 9: Physical	and	chemical prop	erties						
Initial boiling point and boiling range		>37.78°C							
Flammability	: Not available.								
Upper/lower flammability or explosive limits	:	: Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic)							
Flash point	:	Closed cup: 27°C							
Auto-ignition temperature	:	Ingredient name		°C	°F	N	Method		
		zineb (ISO)		149	300.2				
Decomposition temperature pH Viscosity Viscosity Solubility(ies)		 Stable under recommended storage and handling conditions (see Section 7). Not applicable. insoluble in water. Kinematic (40°C): >21 mm²/s 60 - 100 s (ISO 6mm) 							
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octane water	ol/ :	Not applicable.							
Vapour pressure	:		Vapour Pressure at 20°C V			Vapo	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		4-methylpentan-2-one	15.75128	2.1					
Evaporation rate	:	 Highest known value: 1.7 (4-methylpentan-2-one) Weighted average: 1.44compared with butyl acetate 							
Relative density	:	: 1.76							
Vapour density Explosive properties	:	 Highest known value: 5.3 (Air = 1) (Terpineol). Weighted average: 3.77 (Air = 1) 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	•		azard.				
Particle characteristics				-					
Median particle size	:	Not applicable.							
0.2 Other information									
No additional information.									
SECTION 10: Stability	and	d reactivity							
-		specific test data rela	ted to rea	ctivity ava	ailable for this	product	or its ing	redients.	
10.2 Chemical stability	: The product is stable.								
10.3 Possibility of	· Un	der normal conditions	ofatoroa		bazardayay	roactions	will pot	000115	

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.

hazardous reactions

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878						
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SECTION 10: Stabilit	y and reactivity	/				
10.5 Incompatible materials		he following materials to prevent strong exot strong alkalis, strong acids.	hermic reactions:			
10.6 Hazardous decomposition products		nditions, decomposition products may include rogen oxides sulfur oxides metal oxide/oxic				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Hydrocarbons, C9, aromatics < 0.1%	LD50 Dermal	Rabbit -	>2000 mg/kg	-
cumene		Male,		
		Female		
	LD50 Oral	Rat	8400 mg/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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists			
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists		-	
octadecanoic acid and				
1,3-phenylenedimethanamine				

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<mark>x</mark> ylene Terpineol	Skin - Moderate irritant Skin - Irritant	Rabbit Rabbit	-	24 hours 500 mg -	-

- Conclusion/Summary
- Skin

: There are no data available on the mixture itself.

Eyes

- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
zineb (ISO)	skin	Guinea pig	Sensitising
Terpineol	skin	Guinea pig	Sensitising

English ((GB)
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SECTION 11: Toxicological information

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	ity (single exposure)

<u>Specific target organ toxicity (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
zineb (ISO)	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
Hydrocarbons, C9, aromatics < 0.1% cumene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Produ	ct/ingredient name	Result	
₩ydrocarbons, C9, aroma xylene Terpineol	atics < 0.1% cumene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health ef	fects		
Inhalation	: May cause respiratory irritation.		
Ingestion	: Harmful if swallowed.		
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.		
Eye contact	: Causes serious eye damage.		
Symptoms related to the	physical, chemical and toxicological	<u>characteristics</u>	
Inhalation	: Adverse symptoms may include respiratory tract irritation coughing	he following:	
Ingestion	: Adverse symptoms may include stomach pains	he following:	
Skin contact	: Adverse symptoms may include a pain or irritation redness dryness cracking blistering may occur	he following:	

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SECTION 11: Toxico	logical information
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	ects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</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	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	

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
dícopper oxide	LC50 0.003 mg/l	Fish	96 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
Hydrocarbons, C9, aromatics < 0.1% cumene	LC50 9.2 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	<i>magna</i> - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i>	21 days
		magna - Neonate	-
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours
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Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
 methylpentan-2-one Hydrocarbons, C9, aromatics 0.1% cumene 	OECD 301F -	83 % - Readily - 28 days 78 % - 28 days	6	-	-
Conclusion/Summary	There are no dat	a available on the mixture	e itself.		
Product/ingredient name		Aquatic half-life	Photo	lysis	Biodegradability
#-methylpentan-2-one Hydrocarbons, C9, aromatics - xylene	< 0.1% cumene		- - -		Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
P osin	1.9 to 7.7	-	High
zineb (ISO)	1.3	-	Low
4-methylpentan-2-one	1.9	-	Low
Hydrocarbons, C9, aromatics < 0.1% cumene	3.7 to 4.5	10 to 2500	High
xylene	3.12	7.4 to 18.5	Low
Terpineol	2.6	-	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	: 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.

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SECTION 13: Disposal considerations

Hazardous waste	: Yes.		
European waste catalog	ue (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 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	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	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	dicopper oxide)	Not applicable.

Additional information

			English (GB)	Saudi Arabia	14/16
14.7 Transport i according to IM instruments		: Not applicable.			
14.6 Special pre user	cautions for		ure. Ensure that persons t	ays transport in closed contain transporting the product know	
ΙΑΤΑ	: The enviro regulations		us substance mark may a	appear if required by other tran	isportation
IMDG		•		orted in sizes of ≤5 L or ≤5 kg.	
Tunnel code	: (D/E)				
ADR/RID	: The enviro ≤5 kg.	onmentally hazardo	us substance mark is not	required when transported in	sizes of ≤5 L or

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SECTION 15: Regulatory informat	tion		
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			

SECTION 16: Other information

Other national and international regulations.

Ozone depleting substances (1005/2009/EU)

and use of certain dangerous substances, mixtures and articles

Explosive precursors

15.2 Chemical safety

Not listed.

assessment

Indicates information that has changed from previously issued version.

: Not applicable.

Indicates information that	s changed from previously issued version.	
Abbreviations and	: ATE = Acute Toxicity Estimate	
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.	
-	1272/2008]	
	DNEL = Derived No Effect Level	
	EUH statement = CLP-specific Hazard statement	
	PNEC = Predicted No Effect Concentration	
	RRN = REACH Registration Number	
Full text of abbreviated H	H225 Highly flammable liquid and vapour.	
statements	H226 Flammable liquid and vapour.	
	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.	
	H351 Suspected of causing cancer.	
	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.	
	H412 Harmful to aquatic life with long lasting effects.	
	H413 May cause long lasting harmful effects to aquatic life.	
	EUH066 Repeated exposure may cause skin dryness or cracking.	
Full text of eleccifications		

: No Chemical Safety Assessment has been carried out.

Full text of classifications [CLP/GHS]

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SECTION 16: Other	r information		
	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC LONG-TERM (CHRONIC) AQUATIC LONG-TERM (CHRONIC) AQUATIC LONG-TERM (CHRONIC) AQUATIC LONG-TERM (CHRONIC) AQUATIC ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRI SERIOUS EYE DAMAGE/EYE IRRI SERIOUS EYE DAMAGE/EYE IRRI FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - C SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXIC EXPOSURE - Category 3	C HAZARD - Category 1 C HAZARD - Category 2 C HAZARD - Category 3 C HAZARD - Category 4 TATION - Category 1 TATION - Category 2 Category 2
<u>History</u> Date of issue/ Date of revision	: 12 April 2024		
Date of previous issue	: 30 August 2023		
Prepared by	: EHS		

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