# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 3 July 2024

Version

: 5.01



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

1.1 Product identifier			
Product name	:	SIGMA SAILADVANCE RX REDBROWN	1
Product code	:	00371223	
Other means of identifica	tion		

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 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	2
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. 1B, H350 STOT SE 3, H336 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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SIGMA SAILADVANCE RX R	EDBROWN			
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 drowsiness May cause cancer.	skin reaction. amage.		
Precautionary statements				
Prevention		s, protective clothing and eye or face prarks, open flames and other ignition soument.		
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	l, regional, national and	
Hazardous ingredients	<ul> <li>Dicopper oxide</li> <li>Hydrocarbons, C9, arc</li> <li>rosin</li> <li>4-methylpentan-2-one</li> <li>zineb (ISO)</li> <li>Oils, pine</li> <li>p-mentha-1,4(8)-diene</li> </ul>			
Supplemental label elements	: Not applicable.			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to profession	onal users.		
Special packaging requirem	ents			
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	sed to be a PBT or a vPvl	
Other hazards which do not result in classification	: Prolonged or repeated	l contact may dry skin and cause irritatio	on.	

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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
øîcopper 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]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥10 - ≤15	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% EUH066: C ≥ 20%	[1]
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]
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]
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]
zineb (ISO)	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≥1.0 - ≤4.6	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥0.30 - ≤2.3	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
Oils, pine	CAS: 8002-09-3	<1.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
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## **SECTION 3: Composition/information on ingredients**

	CAS: 1317-38-0 Index: 029-016-00-6				
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	≤0.30	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
p-mentha-1,4(8)-diene	REACH #: 01-2119982325-32 EC: 209-578-0 CAS: 586-62-9	≤0.30	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	M [Acute] = 1 M [Chronic] = 1	[1]

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	: 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	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	<u>ms</u>

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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: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
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 <sub>2</sub> , 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	<ul> <li>Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides</li> </ul>
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.

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## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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	со	ntainment 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 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

sections

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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<b>Conforms to Regulation (EC)</b>	No. 1907/2006 (REACH),	, Annex II, as amended b	y Commission Regulation (EU)
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## SECTION 7: Handling and storage

7.2 Conditions for safe : 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 storage, including any container protected from direct sunlight in a dry, cool and well-ventilated area, away incompatibilities 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.

#### 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 na	me Exposure limit values
dicopper oxide	ACGIH TLV (United States, 7/2023). [copper fume]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
rosin	ACGIH TLV (United States, 7/2023). [resin acids] Skin sensitiser.
	Inhalation sensitiser.
	TWA: 0.001 mg/m <sup>3</sup> , (as total Resin acids) 8 hours. Form: Inhalable
	fraction
4-methylpentan-2-one	EU OEL (Europe, 1/2022).
	STEL: 208 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 83 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
12-hydroxyoctadecanoic acid, read	
with 1,3-benzenedimethanamine a	0
hexamethylenediamine	TWA: 3 mg/m³, (inhalable dust) Form: Respirable particle
procedures S b a b re a	eference should be made to monitoring standards, such as the following: European tandard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure y inhalation to chemical agents for comparison with limit values and measurement trategy) European Standard EN 14042 (Workplace atmospheres - Guide for the pplication and use of procedures for the assessment of exposure to chemical and iological agents) European Standard EN 482 (Workplace atmospheres - General equirements for the performance of procedures for the measurement of chemical gents) Reference to national guidance documents for methods for the determination f hazardous substances will also be required.
2 Exposure controls	
	se only with adequate ventilation. Use process enclosures, local exhaust ventilation or
re V	ther engineering controls to keep worker exposure to airborne contaminants below any ecommended or statutory limits. The engineering controls also need to keep gas, apour or dust concentrations below any lower explosive limits. Use explosion-proof entilation equipment.
ndividual protection measures	

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles and face shield.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear 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.
<b>Respiratory protection</b>	:
Environmental exposure controls	<ul> <li>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.</li> </ul>

# **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

(-46.8°F) This is based 9. Weighted average: 1. naphtha (petroleum),
. Weighted average:
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SECTION 9: Physical a	nd	chemical prop	perties						
Auto-ignition temperature	:	Ingredient name		°C	٥	•	Metho	ł	
		zineb (ISO)		149	30	0.2			
Decomposition temperature	:	Stable under recomm	nended st	orage a	nd handlin	g conditio	ons (see S	ection 7).	
pH	1	Not applicable. insolu	uble in wa	ter.		-		-	
Viscosity	:	Kinematic (40°C): >2	21 mm²/s						
Solubility(ies)	:								
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octanol water	/ :	Not applicable.							
Vapour pressure	:		Vapou	Vapour Pressure at 20°C		C V	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	l mn Hg	n kPa	Method	
		4-methylpentan-2-one	15.75128	2.1					
Evaporation rate	:	L Highest known value 1.61compared with b			l ntan-2-one	) Weigh	ted averag	e:	
Relative density	:	1.67							
Vapour density	1	Highest known value 3.67 (Air = 1)	e: 4.1 (Air	= 1) (1,	2,4-trimet	nylbenzei	ne). Weig	hted average:	
Explosive properties	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	esent an o	xidizing	hazard.				
Particle characteristics									

9.2 Other information

I

No additional information.

SECTION 10: Stabilit	y 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	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

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# **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 mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat - Female	3492 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists		U U	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine and hexamethylenediamine	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Oils, pine	LD50 Dermal	Rabbit	5 g/kg	-
	LD50 Oral	Rat	2.1 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
p-mentha-1,4(8)-diene	LD50 Oral	Rat	4390 mg/kg	-

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

Irritation/Corrosion	
<b>Conclusion/Summary</b>	
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	

### ensitisation

Product/ingredient name		Route of exposure	Species	Result
zíneb (ISO)		skin	Guinea pig	Sensitising
Conclusion/Summary		L		
Skin	: There are no data ava	ilable on the mixtu	re itself.	
Respiratory	: There are no data ava	ilable on the mixtu	re itself.	
Mutagenicity				
Conclusion/Summary	: There are no data ava	ilable on the mixtu	re itself.	
<b>Carcinogenicity</b>				
Conclusion/Summary	: There are no data ava	ilable on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data ava	ilable on the mixtu	re itself.	

English (GB)

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## **SECTION 11: Toxicological information**

### **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
Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
4-methylpentan-2-one zineb (ISO)	Category 3 Category 3	-  -	Narcotic effects Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

#### Aspiration hazard

Produ	uct/ingredient name	Result
Hydrocarbons, C9, aroma Oils, pine p-mentha-1,4(8)-diene	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	<u>ffects</u>	
Inhalation	: Can cause central nervou dizziness.	is system (CNS) depression. May cause drowsiness or
Ingestion	: Harmful if swallowed. Ca	n cause central nervous system (CNS) depression.
Skin contact	: Defatting to the skin. Mar reaction.	y cause skin dryness and irritation. May cause an allergic skin
Eye contact	: Causes serious eye dama	age.
Symptoms related to the	e physical, chemical and toxico	logical characteristics
Inhalation	: Adverse symptoms may i nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	nclude the following:
Ingestion	: Adverse symptoms may i stomach pains	nclude the following:
Skin contact	: Adverse symptoms may i pain or irritation redness dryness cracking blistering may occur	nclude the following:
Eye contact	: Adverse symptoms may i pain watering redness	nclude the following:
Delayed and immediate	effects as well as chronic effect	ts from short and long-term exposure
Short term exposure		

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## **SECTION 11: Toxicological information**

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	ct	<u>s</u>
Not available.		
<b>Conclusion/Summary</b>	:	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	:	May cause 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	:	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
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l	Daphnia	48 hours
	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 Fresh water	Algae	72 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and	3	Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - Daphnia	48 hours
		magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
		mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
		Pseudokirchneriella	
		subcapitata	
1	English (GB)	Saudi Arabia	12/16

: There are no data available on the mixture itself.

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		Chronic NOEC ≥50 mg/l	Daphnia - <i>magna (W</i>		21 days	
copper		Acute LC50 810 ppb Chronic EC10 8.1 µg/l	Fish Daphnia -	Daphnia	96 hours 21 days	

12.2 Persistence and degradability

Conclusion/Summary

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readily - 28 days	-	-
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-
12-hydroxyoctadecanoic acid, reaction products with	OECD 301D Ready	9 % - Not readily - 29 days	-	-
1,3-benzenedimethanamine and hexamethylenediamine	Biodegradability - Closed Bottle Test			

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C9, aromatics > 0.1% cumene 4-methylpentan-2-one	-	-	Readily Readily
4-memypentan-2-one	-	-	Reauly

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
rosin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High
p-mentha-1,4(8)-diene	4.47	-	High

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Endocrine disrupting properties**

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

magna - Neonate

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## **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 catalog	ue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### Packaging

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	taken when l Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

# **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	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**

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Tunnel code : (D/E)

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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SECTIC	N 14: Transpo	ort information		
IMDG	: The marin	e pollutant mark is not re	equired when transported in sizes of ≤5 L	or ≤5 kg.
ΙΑΤΑ	: The enviro regulations	-	bstance mark may appear if required by o	other transportation
14.6 Speci user	al precautions for	-	er's premises: always transport in closed insure that persons transporting the produ or spillage.	
14.7 Transport in bulk : Not appli according to IMO instruments		: Not applicable.		

## **SECTION 15: Regulatory information**

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

Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Restricted to professional users.

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.

**15.2 Chemical safety** : No Chemical Safety Assessment has been carried out.

assessment

## **SECTION 16: Other information**

		English (GB)	Saudi Arabia	15/16
	H335	May cause respiratory irritation.		
	H332	Harmful if inhaled.		
	H319	Causes serious eye irritation.		
	H318	Causes serious eye damage.		
	H317	May cause an allergic skin reaction	۱.	
	H315	Causes skin irritation.		
	H304	May be fatal if swallowed and ente	rs airwavs.	
Statements	H302	Harmful if swallowed.		
statements	H226	Highly flammable liquid and vapou Flammable liquid and vapour.	1.	
Full text of abbreviated H	: H225	-	r	
		REACH Registration Number		
		atement = CLP-specific Hazard state · Predicted No Effect Concentration	ment	
		Derived No Effect Level	mont	
	1272/20	-		
acronyms		Classification, Labelling and Packagir	ng Regulation [Regulation (E	C) No.
Abbreviations and		Acute Toxicity Estimate		
Indicates information that	has changed	from previously issued version.		

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Full text of classifications [CLP/GHS]	H350May cause ofH351Suspected ofH373May cause ofH400Very toxic toH410Very toxic toH411Toxic to aquH412Harmful to aH413May cause local	f causing cancer. amage to organs through prolonged or repeated exposure.
<u>History</u>	0.1.1.0004	
Date of issue/ Date of revision	: 3 July 2024	
Date of previous issue	: 21 October 2023	
Prepared by	: EHS	
Version	: 5.01	
<u>Disclaimer</u>		

<u>Disclaimer</u>

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