# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 12 April 2024

Version

: 1.02

P	DG

SECTION 1: Identific undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: PPG SIGMA SAILADVANCE RX REDBROWN
Product code	: 000001188845
Other means of identificati 00444779	on
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
PPG Cameroun BP 1028, Douala Cameroon Tel: 00237 33 37 83 47 Fax: 00237 33 37 88 98	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone number	: ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00237 33 37 83 47

## **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 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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PPG SIGMA SAILADVANCE RX REDBROWN				
SECTION 2: Hazards	identification			
Hazard pictograms			>	
Signal word	: Danger			
Hazard statements	: Flammable liquid and Harmful if swallowed May cause an allergi Causes serious eye May cause respirator May cause drowsine Suspected of causing	c skin reaction. damage. ry irritation. ss or dizziness.		
Precautionary statements				
Prevention		es, protective clothing and eye or face pro parks, open flames and other ignition sou nment.		
Response	: Collect spillage.			
Storage	: Store in a well-ventila	ated place. Keep container tightly closed.		
Disposal	international regulation	and container in accordance with all local ons. '391, P403 + P233, P501	, regional, national and	
Hazardous ingredients	<ul> <li>dicopper oxide Hydrocarbons, C9, a rosin 4-methylpentan-2-on zineb (ISO) xylene Terpineol</li> </ul>	romatics < 0.1% cumene e		
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>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 no	t contain any substances that are assess	ed to be a PBT or a vPvI	
Other hazards which do not result in classification	: Prolonged or repeate	ed contact may dry skin and cause irritation	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	Туре
dícopper 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	and ATEs 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: 64742-95-6	≥10 - <20	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]
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 - ≤5.0	Skin Sens. 1, H317 STOT SE 3, H335	-	[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]
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 - ≤2.4	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]
Terpineol	REACH #: 01-2119553062-49	≥1.0 - ≤4.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
		English	(GB) Car	neroon	3/17

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SECTION 3: Co	mposition/informat	tion o	n ingredients		
	EC: 232-268-1 CAS: 8000-41-7		Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411		
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
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]
			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.

[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.

### **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.
	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. 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. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympton	<u>ns</u>

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	)
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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 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 imm	nediate 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	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides oxides of lead
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.

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<b>SECTION 5: Firefight</b>	ting measures		
Special protective equipment for fire-fighters	apparatus (SCBA) with for fire-fighters (includir	ar appropriate protective equipment ar a full face-piece operated in positive p ng helmets, protective boots and glove rovide a basic level of protection for ch	oressure mode. Clothing s) conforming to European
<b>SECTION 6: Acciden</b>	tal release measu	res	
6.1 Personal precautions, pro	otective equipment and e	mergency procedures	
For non-emergency personnel	Evacuate surrounding a entering. Do not touch flares, smoking or flam	n involving any personal risk or without areas. Keep unnecessary and unprote or walk through spilt material. Shut of es in hazard area. Do not breathe vap Vear appropriate respirator when venti al protective equipment.	ected personnel from f all ignition sources. No our or mist. Provide
For emergency responders		s required to deal with the spillage, tak nd unsuitable materials. See also the	
6.2 Environmental precautions	sewers. Inform the rele pollution (sewers, wate	material and runoff and contact with so evant authorities if the product has cau rways, soil or air). Water polluting mat ased in large quantities. Collect spillag	sed environmental terial. May be harmful to
6.3 Methods and material for	containment and cleanin	g up	
Small spill	explosion-proof equipm or if water-insoluble, at	. Move containers from spill area. Us nent. Dilute with water and mop up if w sorb with an inert dry material and place spose of via a licensed waste disposal	vater-soluble. Alternatively, ce in an appropriate waste
Large spill	explosion-proof equipm sewers, water courses, treatment plant or proc combustible, absorben place in container for d	. Move containers from spill area. Us nent. Approach the release from upwir basements or confined areas. Wash eed as follows. Contain and collect sp t material e.g. sand, earth, vermiculite isposal according to local regulations. tor. Contaminated absorbent material fuct.	nd. Prevent entry into spillages into an effluent illage with non- or diatomaceous earth and Dispose of via a licensed
6.4 Reference to other sections	See Section 8 for inforr	gency contact information. nation on appropriate personal protect itional waste treatment information.	ive equipment.

# **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

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	Protective measures	
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English (GB)

Cameroon

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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SECTION 7: Handli	ing and storage			
	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. 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 name	Exposure limit values
øicopper oxide	ACGIH TLV (United States, 1/2023). [Copper Fume]
	TWA: 0.2 mg/m <sup>3</sup> 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/m³, (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.
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
12-hydroxyoctadecanoic acid, reaction products	ACGIH TLV (United States).
with 1,3-benzenedimethanamine and	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle
hexamethylenediamine	TWA: 3 mg/m³, (inhalable dust) Form: Respirable particle

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PPG SIGMA SAILADVANCE F Recommended monitoring procedures	<ul> <li>REDBROWN</li> <li>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.</li> </ul>
8.2 Exposure controls	
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 measu	<u>res</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.
<b>Respiratory protection</b>	: · · · · · · · · · · · · · · · · · · ·
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.

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# **SECTION 9: Physical and chemical properties**

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

<u>Appearance</u>								
Physical state	÷	Liquid.						
Colour	1	Brownish-red.						
Odour	1	Aromatic. [Slight]						
Odour threshold	4	Not available.						
Melting point/freezing point	:	May start to solidify a This is based on data -69.17°C (-92.5°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Jpper/lower flammability or explosive limits	:	Greatest known rang light aromatic)	e: Lower:	1.4% L	Jpper: 7.6% (\$	Solvent	naphtha (p	etroleum),
Flash point	:	Closed cup: 28°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		zineb (ISO)		149	300.2			
	:	> 100 s (ISO 6mm)						
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result Not soluble						
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	: :	Result       Not soluble       Not applicable.	Vapor	ur Press	ure at 20°C	Vat	pour press	sure at 50°C
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	: :	Result         Not soluble         Not applicable.         Ingredient name	mm Hg	kPa	sure at 20°C Method	Vap mm Hg	oour press	sure at 50°C Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result         Not soluble         Not applicable.         Ingredient name		kPa	1	mm		1
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water /apour pressure	:	Result         Not soluble         Not applicable.         Ingredient name	mm Hg 15.75128 : 1.7 (4-m	kPa 2.1 nethylper	Method	mm Hg	kPa	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ vater /apour pressure	:	Result         Not soluble         Not applicable.         Ingredient name         Image: Mathematical Structure         Image: Mathematical Structure         Highest known value	mm Hg 15.75128 : 1.7 (4-m	kPa 2.1 nethylper	Method	mm Hg	kPa	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ vater /apour pressure	:	Result         Not soluble         Not applicable.         Ingredient name         Impredient nampredient nampredient nampredient nampredient nampredient nampred	mm Hg 15.75128 : 1.7 (4-m utyl aceta	kPa 2.1 nethylper ate	Method ntan-2-one) V	mm Hg Veighteo	kPa	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density /apour density	:	Result         Not soluble         Not applicable.         Ingredient name         Image: Market M	mm Hg 15.75128 : 1.7 (4-m utyl aceta : 5.3 (Air not explos	kPa 2.1 aethylper ate = 1) (Te sive, but	Method Intan-2-one) V erpineol). We	mm Hg Veighted	kPa d average:	Method .84 (Air = 1)
/iscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ vater /apour pressure Evaporation rate Relative density /apour density Explosive properties		Result         Not soluble         Not applicable.         Ingredient name         Impredient nampredient nampredient nampredient name	mm Hg 15.75128 : 1.7 (4-m utyl aceta : 5.3 (Air not explos ir is possi	kPa 2.1 nethylper ate = 1) (Te sive, but ible.	Method ntan-2-one) V erpineol). We the formation	mm Hg Veighted	kPa d average:	Method .84 (Air = 1)
		Result         Not soluble         Not applicable.         Ingredient name         Impredient nampredient nampredient nampredient name	mm Hg 15.75128 : 1.7 (4-m utyl aceta : 5.3 (Air not explos ir is possi	kPa 2.1 nethylper ate = 1) (Te sive, but ible.	Method ntan-2-one) V erpineol). We the formation	mm Hg Veighted	kPa d average:	Method .84 (Air = 1)

No additional information.

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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 metal oxide/oxides

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dícopper 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	-
Hydrocarbons, C9, aromatics < 0.1%	LD50 Dermal	Rabbit -	>2000 mg/kg	-
cumene		Male,		
		Female		
	LD50 Oral	Rat	8400 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			
	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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine	mists			
and hexamethylenediamine				
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists		-	

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation		
₩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.							

#### : There are no data available on the mixture itself.

÷. There are no data available on the mixture itself.

Respiratory

Eyes

: 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

#### **Conclusion/Summary**

Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Charifie terret erren tevi	

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

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

Product/ingredient name	Result
₩ydrocarbons, C9, aromatics < 0.1% cumene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Terpineol	ASPIRATION HAZARD - Category 1

#### Information on likely : Not available.

#### routes of exposure

### Potential acute health effects

- Inhalation
- : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

English (	GB)
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Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic ski reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the physical sectors and the sector sectors and the sector sector sectors and the sector sectors and the sector sectors are sectors and the sectors are se	vsical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</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	: 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**

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Not available.

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 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 Fresh water	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	48 hours
	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 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days

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

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ydrocarbons, C9, aromatics < 0.1% cumene 4-methylpentan-2-one 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	78 % - 28 days 83 % - Readily - 28 days 9 % - Not readily - 29 days		-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
₩ydrocarbons, C9, aromatics < 0.1% cumene	-	-	Readily
4-methylpentan-2-one	-	-	Readily
xylene	-	-	Readily

#### **12.3 Bioaccumulative potential**

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# **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
ydrocarbons, C9, aromatics < 0.1% cumene rosin 4-methylpentan-2-one zineb (ISO) xylene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	3.7 to 4.5 1.9 to 7.7 1.9 1.3 3.12 >6	10 to 2500 - - 7.4 to 18.5 -	High High Low Low Low High
Terpineol	2.6	-	Low

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

#### 12.5 Results of PBT and vPvB assessment

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

#### 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
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Hazardous waste	regional local authority requirements. Dispose of surplus and non-recyclable produce via a licensed waste disposal contractor. Waste should not be disposed of untreated the sewer unless fully compliant with the requirements of all authorities with jurisdict

#### European waste catalogue (EWC)

Waste code		Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal		on of waste should be avoided or minimised wherever possible. Waste nould be recycled. Incineration or landfill should only be considered when ot feasible.
Type of packaging		European waste catalogue (EWC)
Container	15 01 06	mixed packaging

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Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex	II, as amended by Co	ommission Regulation (EU)	
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# **SECTION 13: Disposal considerations**

Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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# **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	Ш	Ш
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)
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>

**14.6 Special precautions for : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

## **SECTION 15: Regulatory information**

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regul		n	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	<b>:</b> Not applicable.		
Other national and interna Explosive precursors	tional regulations. : Not applicable.		
Ozone depleting substan Not listed.	• •		
15.2 Chemical safety assessment	: No Chemical Safet	y Assessment has been carried out.	
SECTION 16: Other	information		
Indicates information that	has changed from previ	ously issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived N EUH statement = (	on, Labelling and Packaging Regulation [Re o Effect Level CLP-specific Hazard statement No Effect Concentration	gulation (EC) No.
Full text of abbreviated H statements	: H225 Highly fla H226 Flamma H302 Harmful H304 May be flamma H312 Harmful H315 Causes H317 May cau H318 Causes H319 Causes H319 Causes H332 Harmful H335 May cau H336 May cau H351 Suspecte H373 May cau H400 Very tox H410 Very tox H411 Toxic to H412 Harmful H413 May cau	ammable liquid and vapour. ble liquid and vapour. if swallowed. fatal if swallowed and enters airways. in contact with skin. skin irritation. se an allergic skin reaction. serious eye damage. serious eye damage. serious eye irritation. if inhaled. se respiratory irritation. se drowsiness or dizziness. ed of causing cancer. se damage to organs through prolonged or ic to aquatic life. ic to aquatic life with long lasting effects. aquatic life with long lasting effects. to aquatic life with long lasting effects. se long lasting harmful effects to aquatic lif ed exposure may cause skin dryness or cra	e.
Full text of classifications [CLP/GHS]	: 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		TIC HAZARD - Category 1 TIC HAZARD - Category 2 TIC HAZARD - Category 3 TIC HAZARD - Category 4 TY 1 RITATION - Category 1 RITATION - Category 2 Y 2 Y 3
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SECTION 16: Other information			
Skin Sens. 1 STOT RE 2	SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATE	D	

EXPOSURE - Category 2

EXPOSURE - Category 3

SPECIFIC TARGET ORGAN TOXICITY - SINGLE

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<u>History</u>	
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Date of previous issue	: 30 August 2023
Prepared by	: EHS
Version	: 1.02
Dicoloimor	

#### <u>Disclaimer</u>

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