# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 21 October 2023 Version



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: 9

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

1.1 Product identifier	
Product name	: SIGMA SAILADVANCE RX REDBROWN
Product code	: 00371223
Other means of identification	on
Not available.	
1.2 Relevant identified uses of	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/	: Antifouling products

mixture		
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 Coatings PTY 9 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone number	: +27 51 444 2134

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

Mam. 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

English (GB)

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SIGMA SAILADVANCE RX	EDBROWN		
SECTION 2: Hazards	identification		
Hazard pictograms			
Signal word	: Danger		
Hazard statements	: Mammable liquid ar Harmful if swallowe May cause an aller Causes serious eye May cause drowsin May cause cancer. Very toxic to aquatio	d. gic skin reaction. a damage.	
Precautionary statements			
Prevention		ves, protective clothing and eye or face pro sparks, open flames and other ignition sour onment.	
Response	: 🖉ollect spillage.		
Storage	: Store in a well-venti	lated place. Keep container tightly closed.	
Disposal	international regulat	and container in accordance with all local, tions. P391, P403 + P233, P501	regional, national and
Hazardous ingredients	<ul> <li>dicopper oxide</li> <li>Hydrocarbons, C9, rosin</li> <li>4-methylpentan-2-o</li> <li>zineb (ISO)</li> <li>Oils, pine</li> <li>p-mentha-1,4(8)-die</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 profes	sional users.	
Special packaging requiren	<u>nents</u>		
Containers to be fitted with child-resistant fastenings	: Not applicable.		
Tactile warning of danger	: Not applicable.		
2.3 Other hazards			
Product meets the criteria for PBT or vPvB	: This mixture does n	not contain any substances that are assess	ed to be a PBT or a vPv
Other hazards which do not result in classification	: Prolonged or repeat	ted 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
øícopper 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: 64742-95-6	≥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 - ≤4.7	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]
		English	(GB) South	Africa	3/17

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

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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>

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		nses. Immediately flush eyes with running water for open. Seek immediate medical attention.
Inhalation		arm and at rest. If not breathing, if breathing is s, provide artificial respiration or oxygen by trained
Skin contact	emove contaminated clothing and s r use recognised skin cleanser. Do l	hoes. Wash skin thoroughly with soap and water NOT use solvents or thinners.
Ingestion	swallowed, seek medical advice im erson warm and at rest. Do NOT inc	mediately and show the container or label. Keep duce vomiting.
Protection of first-aiders	uspected that fumes are still present elf-contained breathing apparatus. I	y personal risk or without suitable training. If it is t, the rescuer should wear an appropriate mask or t may be dangerous to the person providing aid to Vash contaminated clothing thoroughly with water

#### **4.2 Most important symptoms and effects, both acute and delayed**

Potential acute health eff	ects
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	: 📕 armful if swallowed. Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/syn</u>	iptoms

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#### **SECTION 4: First aid measures**

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	<ul> <li>Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> </ul>
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 fr	om the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides 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 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.
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# 6.4 Reference to other: See Section 1 for emergency contact information.sections: See Section 8 for information on appropriate personal protective equipment.<br/>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	Fut 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)

South Africa

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onforms to Regulation (EC) No.	1907/2006 (REACH), Annex II, as amended by Commission 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.

#### 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	DOL OEL (South Africa, 3/2021). [copper: fume (copper oxide) as Cu]				
rosin	TWA: 0.4 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Fume ACGIH TLV (United States, 1/2022). [resin acids as total Resin acids] Skin sensitiser. Inhalation sensitiser. TWA: 0.001 mg/m <sup>3</sup> , (as total Resin acids) 8 hours. Form: Inhalable				
zinc oxide	fraction DOL OEL (South Africa, 3/2021).				
4-methylpentan-2-one	TWA: 4 mg/m <sup>3</sup> 8 hours. Form: Fume, respirable fraction STEL: 20 mg/m <sup>3</sup> 15 minutes. Form: Fume, respirable fraction <b>DOL OEL (South Africa, 3/2021). Absorbed through skin.</b> TWA: 40 ppm 8 hours.				
diiron trioxide	STEL: 150 ppm 15 minutes. DOL OEL (South Africa, 3/2021).				
1,2,4-trimethylbenzene	TWA: 10 mg/m <sup>3</sup> , (as Fe) 8 hours. Form: Fume, respirable fraction <b>DOL OEL (South Africa, 3/2021). [trimethylbenzene, all isomers or mixtures]</b>				
calcium carbonate	TWA: 50 ppm 8 hours. <b>ACGIH TLV (United States).</b> TWA: 3 mg/m <sup>3</sup> Form: Respirable TWA: 10 mg/m <sup>3</sup> Form: Total dust				
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine ethylbenzene	ACGIH TLV (United States). TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form: Respirable particle DOL OEL (South Africa, 3/2021). Absorbed through skin. TWA: 40 ppm 8 hours.				

#### **Biological exposure indices**

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Product/ingredient name	Exposure indices			
<b>₽</b> -methylpentan-2-one	<b>DOL BEI (South Africa, 3/2021)</b> BEI: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of			

		English (GB)	South Africa	8/17
Other skin protection	based on the	task being performed and ore handling this product.	skin protection measures should the risks involved and should be	approved by a
Body protection	Personal prot performed ar handling this static protecti should includ 1149 for furth	nd the risks involved and sh product. When there is a r ive clothing. For the greate e anti-static overalls, boots her information on material	ody should be selected based or ould be approved by a specialist isk of ignition from static electric est protection from static discharg and gloves. Refer to European and design requirements and test	t before ity, wear anti- ges, clothing Standard EN st methods.
Hand protection	worn at all tin necessary. C during use th noted that the glove manufa protection tim frequently rep (breakthroug) When only br (breakthroug) The user mus product is the	hes when handling chemica Considering the parameters at the gloves are still retain time to breakthrough for a acturers. In the case of mix- ne of the gloves cannot be beated contact may occur, th time greater than 480 min- rief contact is expected, a g th time greater than 30 minu- st check that the final choice	omplying with an approved stand al products if a risk assessment if specified by the glove manufact ing their protective properties. It any glove material may be different tures, consisting of several substance accurately estimated. When pro- a glove with a protection class of nutes according to EN 374) is read- love with a protection class of 2 utes according to EN 374) is read- e of type of glove selected for hall as into account the particular cor- nt.	ndicates this is turer, check should be ent for different stances, the longed or 6 commended. or higher ommended. andling this
Eye/face protection Skin protection	showers are	d clothing before reusing. E close to the workstation loc ash goggles and face shiel		d safety
Hygiene measures	: Wash hands, eating, smok Appropriate t	ing and using the lavatory a echniques should be used	ghly after handling chemical proc and at the end of the working per to remove potentially contaminat be allowed out of the workplace.	iod. ted clothing.
Individual protection measu				
8.2 Exposure controls Appropriate engineering controls	other engineer recommende	ering controls to keep work d or statutory limits. The e st concentrations below an	process enclosures, local exhan er exposure to airborne contamin ngineering controls also need to y lower explosive limits. Use exp	nants below any keep gas,
	of nazardous	substances will also be red	juirea.	
Recommended monitoring procedures	Standard EN by inhalation strategy) Eu application ar biological age requirements agents) Refe	689 (Workplace atmosphe to chemical agents for com ropean Standard EN 14042 nd use of procedures for th ents) European Standard E for the performance of pro- erence to national guidance	g standards, such as the followin pres - Guidance for the assessme parison with limit values and me (Workplace atmospheres - Guide assessment of exposure to che N 482 (Workplace atmospheres cedures for the measurement of documents for methods for the	ent of exposure asurement de for the emical and s - General f chemical
		BEI: 0.15 g/g creatin acid [in urine]. Sampli	ne, sum of mandelic acid and pl ng time: end of shift.	nenylglyoxylic
ethylbenzene		BEI: 1 mg/l, methyl is shift. DOL BEI (South Afric		ig time: end of
		BEI: 1 mg/l. methvl is	sobutyl ketone [in urine]. Samplir	ng time: end of

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Respirat	ory protection	hazards of the proc are exposed to con certified respirators with an approved s	n must be based on known or anticipated ex duct and the safe working limits of the select icentrations above the exposure limit, they r s. Use a properly fitted, air-purifying or air-fe tandard if a risk assessment indicates this is ng to EN140. Filter type: organic vapour (T	ed respirator. If workers nust use appropriate, ed respirator complying s necessary. Wear a
Environr controls	nental exposure	they comply with th cases, fume scrubl	ntilation or work process equipment should e requirements of environmental protection pers, filters or engineering modifications to t p reduce emissions to acceptable levels.	legislation. In some

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

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

	_						9/17
:	5.07 (All - 1)						
1		: 4.1 (Air	= 1) (1,2	2,4-trimethy	lbenzene)	Weighte	ed average:
:	1.68						
:				tan-2-one)	Weighted	average:	
	#methylpentan-2-one	15.75	2.1				
		mm Hg	kPa	Method	mm Hg	kPa	Method
	Ingredient name	Vapoι	Ir Press	ure at 20°C	Vap	our press	sure at 50°C
	Not applicable.	1					
	Not soluble						
1	1						
:	Kinematic (40°C): >21 mm <sup>2</sup> /s						
÷	Not applicable. insoluble in water.						
	Stable under recomm	nended st				(500 500	tion 7)
	zineb (ISO)		149	300.2	2		
:	Ingredient name		°C	°F		Method	
:	Closed cup: 34°C						
:	Greatest known rang light aromatic)	le: Lower:	1.4% U	pper: 7.6%	(Solvent n	aphtha (p	etroleum),
:	>37.78°C						
	on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average: -70.44°C (-94.8°F)						
:		4 4k - 6 - 11 -			10.77%0 /		
- 1							
1	Brownish-red.						
	Liquid.						
		<ul> <li>Brownish-red.</li> <li>Characteristic.</li> <li>Not available.</li> <li>May start to solidify a on data for the follow -70.44°C (-94.8°F)</li> <li>&gt;37.78°C</li> <li>Not available.</li> <li>Greatest known rang light aromatic)</li> <li>Closed cup: 34°C</li> <li>Ingredient name metric (ISO)</li> <li>Stable under recommetimes (ISO)</li> <li>Stable under recommetimes (40°C): &gt;2</li> <li>Result Not applicable. insolute</li> <li>Not applicable.</li> <li>Ingredient name</li> <li>Mot soluble</li> <li>Not applicable.</li> <li>Ingredient name</li> <li>Mot soluble</li> <li>Not applicable.</li> <li>Highest known value 1.61compared with b 1.68</li> <li>Highest known value 3.67 (Air = 1)</li> </ul>	<ul> <li>Brownish-red.</li> <li>Characteristic.</li> <li>Not available.</li> <li>May start to solidify at the follow on data for the following ingred -70.44°C (-94.8°F)</li> <li>&gt;37.78°C</li> <li>Not available.</li> <li>Greatest known range: Lower: light aromatic)</li> <li>Closed cup: 34°C</li> <li>Ingredient name Meb (ISO)</li> <li>Stable under recommended states Not applicable. insoluble in wates Kinematic (40°C): &gt;21 mm²/s</li> <li>Result Not soluble</li> <li>Not applicable.</li> <li>Ingredient name Mesult</li> <li>Not applicable.</li> <li>Ingredient name Mesult</li> <li>Not applicable.</li> <li>Highest known value: 1.7 (4-m 1.61compared with butyl acetaation in the states in</li></ul>	<ul> <li>Brownish-red.</li> <li>Characteristic.</li> <li>Not available.</li> <li>May start to solidify at the following term on data for the following ingredient: 1,2 -70.44°C (-94.8°F)</li> <li>&gt;37.78°C</li> <li>Not available.</li> <li>Greatest known range: Lower: 1.4% U light aromatic)</li> <li>Closed cup: 34°C</li> <li>Ingredient name °C Freb (ISO) 149</li> <li>Stable under recommended storage and Not applicable. insoluble in water.</li> <li>Kinematic (40°C): &gt;21 mm²/s</li> <li>Result Not soluble</li> <li>Not applicable.</li> <li>Ingredient name Vapour Press mm Hg kPa Frethylpentan-2-one 15.75 2.1</li> <li>Highest known value: 1.7 (4-methylpen 1.61compared with butyl acetate</li> <li>1.68</li> <li>Highest known value: 4.1 (Air = 1) (1,2 3.67 (Air = 1)</li> </ul>	<ul> <li>Brownish-red.</li> <li>Characteristic.</li> <li>Not available.</li> <li>May start to solidify at the following temperature: -4 on data for the following ingredient: 1,2,4-trimethylt -70.44°C (-94.8°F)</li> <li>&gt;37.78°C</li> <li>Not available.</li> <li>Greatest known range: Lower: 1.4% Upper: 7.6% light aromatic)</li> <li>Closed cup: 34°C</li> <li>Ingredient name °C °F</li> <li>Ingredient name °C °C °F</li> <li>Ingredient name °F</li> <li>In</li></ul>	<ul> <li>Brownish-red.</li> <li>Characteristic.</li> <li>Not available.</li> <li>May start to solidify at the following temperature: -43.77°C (-4 on data for the following ingredient: 1,2,4-trimethylbenzene. V -70.44°C (-94.8°F)</li> <li>&gt;37.78°C</li> <li>Not available.</li> <li>Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent n light aromatic)</li> <li>Closed cup: 34°C</li> <li>Ingredient name °C °F I</li> <li>Igffeb (ISO) 149 300.2</li> <li>Stable under recommended storage and handling conditions</li> <li>Not applicable. insoluble in water.</li> <li>Kinematic (40°C): &gt;21 mm²/s</li> <li>Result</li> <li>Not applicable.</li> <li>Ingredient name Vapour Pressure at 20°C 149</li> <li>Ingredient name IS.75 2.1</li> <li>Highest known value: 1.7 (4-methylpentan-2-one) Weighted 1.61compared with butyl acetate</li> <li>1.68</li> <li>Highest known value: 4.1 (Air = 1) (1,2,4-trimethylbenzene).</li> </ul>	<ul> <li>Brownish-red.</li> <li>Characteristic.</li> <li>Not available.</li> <li>May start to solidify at the following temperature: -43.77°C (-46.8°F) Tr on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted -70.44°C (-94.8°F)</li> <li>&gt;37.78°C</li> <li>Not available.</li> <li>Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (p light aromatic)</li> <li>Closed cup: 34°C</li> <li>Ingredient name °C °F Method #feb (ISO)</li> <li>149 300.2</li> <li>Stable under recommended storage and handling conditions (see Sect Not applicable. insoluble in water.</li> <li>Kinematic (40°C): &gt;21 mm²/s</li> <li>Result</li> <li>Not soluble</li> <li>Ingredient name Vapour Pressure at 20°C Vapour press mm Hg kPa Method mm kPa Hg</li> <li>Frethylpentan-2-one 15.75 2.1</li> <li>Highest known value: 1.7 (4-methylpentan-2-one) Weighted average: 1.61compared with butyl acetate</li> <li>1.68</li> <li>Highest known value: 4.1 (Air = 1) (1,2,4-trimethylbenzene). Weighted 3.67 (Air = 1)</li> </ul>

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

The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

- : Product does not present an oxidizing hazard.
- Particle characteristics Median particle size

**Oxidising properties** 

: Not applicable.

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: 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
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	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat -	3492 mg/kg	-
		Female		
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		l i	
	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	mists		J	
and hexamethylenediamine				
,	LD50 Dermal	Rat	>2000 mg/kg	-
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 LD50 Oral
 Rat
 >2000 mg/kg

 Oils\_pipe
 LD50 Dermal
 Rat
 >2000 mg/kg

	LD50 OTal	i tat	~ 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	-	
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.					

# Irritation/Corrosion

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.
Sonaitiantian	

#### Sensitisation

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

<b>Conclusion/Summary</b>	
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.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
0	

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

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
	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

Product/ingredient name	Result
₩ydrocarbons, C9, aromatics > 0.1% cumene Oils, pine p-mentha-1,4(8)-diene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely : Not available. routes of exposure	

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Potential acute health effect	
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion	:
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 ph	ysical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: 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
<u>Short term exposure</u>	
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	ects
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	: 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 contac	t may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled.

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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**SECTION 11: Toxicological information** 

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	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	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
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	_	Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia</i>	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	
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia</i>	21 days
		magna (Water flea)	
copper	Acute LC50 810 ppb	Fish	96 hours

**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	-	75 % - Readily - 28 days	-	-
4-methylpentan-2-one 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine		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 4-methylpentan-2-one	-	-	Readily Readily

#### **12.3 Bioaccumulative potential**

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# **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
<b>Fo</b> sin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
12-hydroxyoctadecanoic acid, reaction products	>6	-	High
with 1,3-benzenedimethanamine and			
hexamethylenediamine			
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.

#### **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.
Element of the second state of the second stat	

#### European waste catalogue (EWC)

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
ackaging	I	
Methods of disposal	packaging s	tion of waste should be avoided or minimised wherever possible. Waste should be recycled. Incineration or landfill should only be considered when not feasible.
Type of packaging		European waste catalogue (EWC)
Container	15 01 06	mixed packaging

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#### **SECTION 13: Disposal considerations**

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.
--

## **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	111	III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dicopper oxide, zinc 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	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are user 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 EU Regulation (EC) No. 1907/2006 (REACH)

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	atory information		
Annex XV	II - Restrictions	: Restricted to professio	nal users.	
	inufacture,			
and use o	n the market of certain			
	s substances,			
mixtures	and articles			
		tional regulations.		
-	<u>pleting substan</u>	<u>ces (1005/2009/EU)</u>		
Not listed.				
15.2 Chemic assessmen		: No Chemical Safety As	sessment has been carried out.	
SECTION	16: Other	information		
		has changed from previous		
Abbreviation	ns and	: ATE = Acute Toxicity E	Estimate .abelling and Packaging Regulation [Re	gulation (EC) No
acronyms		1272/2008]		
		DNEL = Derived No Ef		
		EUH statement = CLP- PNEC = Predicted No	-specific Hazard statement	
		RRN = REACH Regist		
Full text of a	abbreviated H		able liquid and vapour.	
statements			iquid and vapour.	
		H302 Harmful if sw H304 May be fatal	/allowed. if swallowed and enters airways.	
		H315 Causes skin		
		-	n allergic skin reaction.	
			ous eye damage.	
		H332 Harmful if inf	ous eye irritation. naled.	
		H335 May cause re	espiratory irritation.	
			rowsiness or dizziness.	
		5	f causing cancer.	
		H373 May cause d	amage to organs through prolonged or	repeated exposure.
		H400 Very toxic to H410 Very toxic to	aquatic life. aquatic life with long lasting effects.	
			atic life with long lasting effects.	
		H412 Harmful to a	quatic life with long lasting effects.	
			ong lasting harmful effects to aquatic life posure may cause skin dryness or crac	
Full text of c	lassifications	: Acute Tox. 4	ACUTE TOXICITY - Category 4	King.
[CLP/GHS]		Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATI	C HAZARD - Category 1
		Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUAT	
		Aquatic Chronic 2 Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUA LONG-TERM (CHRONIC) AQUA	
		Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUA	
		Asp. Tox. 1	ASPIRATION HAZARD - Categor	y 1
		Carc. 1B	CARCINOGENICITY - Category 1	
		Carc. 2 Eye Dam. 1	CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IR	
		Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IR	RITATION - Category 2
		Flam. Liq. 2	FLAMMABLE LIQUIDS - Category	
		Flam. Liq. 3 Skin Irrit. 2	FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION	
		Fr	nglish (GB) South Afric	a 16/17

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

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SECTION 16: Other information					
	Skin Sens. 1	SKIN SENSITISATION - Category	1		
	Skin Sens. 1B	SKIN SENSITISATION - Category			
	STOT RE 2	SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2	ICITY - REPEATED		
	STOT SE 3	SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	ICITY - SINGLE		
<u>History</u>		5,7			
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The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this

recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary

information is to draw attention to the health and safety aspects concerning the products supplied by us, and to

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: EHS

measures described in this data sheet or for any misuse of the products.

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revision

Version

Prepared by

**Disclaimer** 

Date of previous issue

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