# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 20 February 2024

Version

: 1



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

1.1 Product identifier	
Product name	: SIGMA ECOFLEET 290 S BROWN
Product code	: 000001201502
Other means of identification 00476166	on and a second s
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/ 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	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Product definition: MixtureClassification according to Regulation (EC) No. 1272/2008 [CLP/GHS]Flam. Liq. 3, H226Acute Tox. 4, H302Eye Dam. 1, H318Skin Sens. 1, H317Carc. 1B, H350STOT SE 3, H335STOT SE 3, H336Aquatic Acute 1, H400

Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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SECTION 2: Hazards	identification				
Hazard pictograms			•		
	: Danger				
Hazard statements	: Flammable liquid a Harmful if swallow May cause an alle Causes serious ey May cause respira May cause drowsi May cause cancer Very toxic to aqua	ved. ergic skin reaction. ye damage. atory irritation. iness or dizziness.			
Precautionary statements					
Prevention		loves, protective clothing and eye or face pro , sparks, open flames and other ignition sou ironment.			
Response	: Collect spillage.				
Storage	: Store in a well-ver	ntilated place. Keep container tightly closed.			
Disposal	international regul	its and container in accordance with all local ations. 3, P391, P403 + P233, P501	, regional, national and		
Hazardous ingredients	: dicopper oxide Hydrocarbons, C9 rosin 4-methylpentan-2- zineb (ISO)	), aromatics > 0.1% cumene -one			
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 profe	essional 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	not contain any substances that are assess	ed to be a PBT or a vPvB.		
Other hazards which do not result in classification	: Prolonged or repe	ated contact may dry skin and cause irritatio	on.		

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# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

: Mixture

Producting reduction rating       Identifiers $\gamma_0$ Classification       Limits, M-factors and ATEs       Type         dicopper oxide       REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X $225 - 550$ Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410       ATE [oral] = 500 mg/ kg       [1] [2]         Hydrocarbons, C9, aromatics > 0.1% cumene       REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6 $210 - <20$ Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066       Carc. 1B, H350: C ≥ 10%       [1]         rosin       REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 $210 - 525$ Skin Sens. 1, H317       -       [1] [2]         zinc oxide       REACH #: 01-2119463881-32 EC: 215-222-6 $25.0 - 510$ Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH066       M [Acute] = 1 M [Chronic] = 1       [1]         zinc oxide       REACH #: 01-2119463881-32 EC: 215-222-7 Index: 030-013-00-7 $25.0 - 510$ 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 $25.0 - 510$ Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit, 2, H319 Carc. 2, H319 CAS: 108-10-1 Index: 606-004-00-4 $55.0 - 510$ Skin Sens. 1, H317 STOT SE 3, H335       -       [1] <th><b></b></th> <th></th> <th></th> <th></th> <th></th> <th></th>	<b></b>					
01-2119513794-36 EC:215-270-7 CAS:1317-39-1 Index: 029-002-00-XAcute Tox. 4, H322 Eye Dam. 1, H316 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 M [Chronic] = 10Acute Tox. 4, H322 Eye Dam. 1, H316 Aquatic Acute 1, H400 M [Chronic] = 10Acute Tox. 4, H322 Aquatic Acute 1, H400 M [Chronic] = 10Acute Tox. 4, H322 Aquatic Acute 1, H400 M [Chronic] = 10Acute Tox. 4, H322 Aquatic Acute 1, H400 M [Chronic] = 10Acute Tox. 4, H322 Aquatic Acute 1, H400 Aquatic Chronic 2, H411Acute Tox. 4, H322 Aquatic Chronic 1, H410A [Acute] = 1 M [Acute] = 1 M [Chronic] = 1[1] [2] Aquatic Chronic 1, H410A [Acute] = 1 M [Chronic] = 1[1] [2] Acute Tox. 4, H332 Eye Intr. 2, H335Acute Tox. 4, H332 Acute Tox. 4, H332 Eye Intr. 2, H335Acute Tox. 4, H332 Eye Intr. 2, H335 <td>Product/ingredient name</td> <td>Identifiers</td> <td>%</td> <td>Classification</td> <td></td> <td>Туре</td>	Product/ingredient name	Identifiers	%	Classification		Туре
aromatics > 0.1% cumene01-2119455851-35 CCAS: 64742-95-6Car. 18, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH06610% EUH066: C $\ge 20\%$ rosinREACH #: 01-2119480418-32 EC: 222475-7 CAS: 8050-09-7 Index: 650-015-00-7 $\ge 10 - \le 25$ Skin Sens. 1, H317 Aquatic Chronic 2, H411 EUH066-[1] [2]zinc oxideREACH #: 01-2119480381-32 EC: 215-2225 CAS: 1314-13-2 Index: 030-013-00-7 $\ge 5.0 - \le 10$ Aquatic Acute 1, H400 Aquatic Chronic 1, H410M [Acute] = 1 M [Chronic] = 1[1]4-methylpentan-2-oneREACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 060-004-00-4 $\ge 5.0 - \le 10$ Flam. Liq. 2, H225 Acute Tox. 4, H322 Eye Irrit. 2, H319 Carc. 2, H335ATE [Inhalation (Vapours)] = 11 mg/l[1] [2]xyleneEC: 215-535-7 CAS: 1330-20-7 $\ge 0 \le 10$ Skin Sens. 1, H317 STOT SE 3, H336 EUH066-ATE [Inhalation (Vapours)] = 11 mg/l[1] [2]xyleneEC: 215-535-7 CAS: 1330-20-7 $\ge 1.0 - \le 50$ Flam. Liq. 3, H226 Acute Tox. 4, H312 Stin Irrit. 2, H315 STOT SE 3, H335-[1] [1]copper(II) oxideREACH #: 01-2119502447-44 CAS: 137-38-0 Index: 029-016-00-6 $\ge 1.0 - \le 50$ Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Acut	dicopper oxide	01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1	≥25 - ≤50	Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100	[1] [2]
$01-2119480418-32$ EC: $232.475-7$ CAS: $8050-09-7$ Index: $650-015-00-7$ $\geq 5.0 - \leq 10$ Aquatic Acute 1, H400 Aquatic Chronic 1, H410M [Acute] = 1 M [Chronic] = 1[1] $4$ -methylpentan-2-oneREACH #: $01-2119473980-30$ EC: $215-522-5$ CAS: $1314-13-2$ Index: $030-013-00-7$ $\geq 5.0 - \leq 10$ Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336ATE [Inhalation (vapours)] = 11 mg/l[1] [2] $4$ -methylpentan-2-oneREACH #: $01-2119473980-30$ EC: $203-550-1$ CAS: $108-10-1$ Index: $06-078-00-2$ $\geq 5.0 - \leq 10$ Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336ATE [Inhalation (vapours)] = 11 mg/l[1] [2] $xylene$ EC: $235-180-1$ CAS: $12122-67-7$ 		01-2119455851-35 EC: 918-668-5	≥10 - <20	Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	10%	[1]
$\begin{array}{c} 01-2119463881-32\\ EC: 215-222-5\\ CAS: 1314-13-2\\ Index: 030-013-00-7\\ \end{tabular} \\ \$	rosin	01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7	≥10 - ≤25	Skin Sens. 1, H317	-	[1] [2]
01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336(vapours)] = 11 mg/l EUH066: C $\geq$ 20%zineb (ISO)EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2 $\geq$ 5.0 - $\leq$ 10Skin Sens. 1, H317 STOT SE 3, H335-[1]xyleneEC: 215-535-7 CAS: 1330-20-7 $\geq$ 1.0 - $\leq$ 5.0Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H315 Eye Irrit. 2, H319 STOT SE 3, H335ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l[1] [2]copper(II) oxideREACH #: 01-2119502447-44 EC: 215-269-1 	zinc oxide	01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2	≥5.0 - ≤10			[1]
CAS: 12122-67-7 Index: 006-078-00-2STOT SE 3, H335ATE [Dermal] = 1700 mg/kg ATE [Inhalation STOT SE 3, H332[1] [2]xyleneEC: 215-535-7 CAS: 1330-20-7 $\geq 1.0 - \leq 5.0$ Flam. Liq. 3, H226 Acute Tox. 4, H312 	4-methylpentan-2-one	01-2119473980-30 EC: 203-550-1 CAS: 108-10-1	≥5.0 - ≤10	Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336	(vapours)] = 11 mg/l	[1] [2]
CAS: 1330-20-7Acute 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 $mg/kg$ ATE [Inhalation (vapours)] = 11 mg/lcopper(II) oxideREACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6 $\leq 1.0$ Aquatic Acute 1, H400 Aquatic Chronic 1, H410M [Acute] = 100 M [Chronic] = 10[1]	zineb (ISO)	CAS: 12122-67-7	≥5.0 - ≤10		-	[1]
01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	xylene		≥1.0 - ≤5.0	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	mg/kg ATE [Inhalation	[1] [2]
copper         REACH #:         <1.0         Aquatic Acute 1, H400         M [Acute] = 1         [1]	copper(II) oxide	01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0	≤1.0			[1]
	copper	REACH #:	<1.0	Aquatic Acute 1, H400	M [Acute] = 1	[1]
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	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	Aquatic Chronic 3, H412	
		See Section 16 for	

			the full text of the H statements declared above.		
There are no additional ingred	dients present which, v	within the cu	rrent knowledge of the supp	plier and in the concentra	tions

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.

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

Potential acute health effect	<u>S</u>
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/sympto	oms
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

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SECTION 4: First aid	I measures
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 immedi	ate 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: Firefight	ting 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	from the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the
Substance of mixture	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	lasting effects. Fire water contaminated with this material must be contained and
Hazardous combustion products	<ul> <li>lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</li> <li>Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides</li> </ul>
Hazardous combustion	<ul> <li>lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</li> <li>Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides</li> </ul>

# 6.1 Personal precautions, protective 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
personner	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.

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<b>SECTION 6: Accident</b>	al release measures
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.

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7.2 Conditions for safe storage, including any incompatibilities	with local regulations. container protected fro from incompatible mat Eliminate all ignition so closed and sealed unti carefully resealed and containers. Use appro	wing temperatures: 0 to 35°C (32 to 95 Store in a segregated and approved are m direct sunlight in a dry, cool and well- erials (see Section 10) and food and drin burces. Separate from oxidising materia I ready for use. Containers that have be kept upright to prevent leakage. Do not priate containment to avoid environment atible materials before handling or use.	ea. Store in original ventilated area, away nk. Store locked up. ls. Keep container tightl en opened must be store in unlabelled

#### 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			
dicopper oxide rosin	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [copper fume]</li> <li>TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: fumes</li> <li>ACGIH TLV (United States, 1/2023). [Copper Fume]</li> <li>TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: Fume</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). Skin sensitiser. Inhalation sensitiser.</li> </ul>			
diiron trioxide	<ul> <li>ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitiser. Inhalation sensitiser.</li> <li>TWA: 0.001 mg/m<sup>3</sup>, (as total Resin acids) 8 hours. Form: Inhalable fraction</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>TWA: 5 mg/m<sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>TWA: 5 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). Notes: Refers to Appendix B</li> </ul>			
zinc oxide	<ul> <li> Substances of Variable Composition. Respirable fraction; see Appendix C, paragraph C. TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m<sup>3</sup> 8 hours. Form: fumes STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: fumes</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: measured as respirable fraction of the aerosol and fume TWA: 2 mg/m<sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol and fume</li> </ul>			
1	English (GB) United Arab Emirates 7/17			

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4-methylpentan-2-one	<ul> <li>ACGIH TLV (United States, 1/2023). Notes: Respirable fraction; see Appendix C, paragraph C. ACGIH 2003 Adoption STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Respirable fraction TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 82 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 307 mg/m<sup>3</sup> 15 minutes. STEL: 307 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 75 ppm 15 minutes.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 75 ppm 15 minutes. TWA: 205 mg/m<sup>3</sup> 8 hours. STEL: 307 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 307 mg/m<sup>3</sup> 15 minutes. TWA: 205 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 307 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 50 ppm 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). Notes: Substances for which there is a Biological Exposure Index or Indices STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.</li> </ul>
1,2,4-trimethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [trimethyl benzene (mixed isomers)] TWA: 123 mg/m <sup>3</sup> 8 hours. TWA: 25 ppm 8 hours. ACGIH TLV (United States, 1/2023).
xylene	<ul> <li>TWA: 10 ppm 8 hours.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m &amp; p isomers)]</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>[xylene (all isomers)]</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant.</li> <li>TWA: 20 ppm 8 hours.</li> </ul>
Talc , not containing asbestiform fibres	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 2 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> </ul>

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Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure controls	
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>is</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.

.1 Information on basic physica Appearance								
Physical state	:	Liquid.						
Colour		Brown.						
Odour	:	Aromatic. [Strong]						
Odour threshold		Not available.						
Melting point/freezing point	:	May start to solidify a on data for the follow -70.04°C (-94.1°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang light aromatic)	e: Lower:	1.4% U	lpper: 7.6%	(Solvent	naphtha (p	etroleum),
Flash point	:	Closed cup: 32°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		zineb (ISO)		149	300.2	2		
Decomposition temperature pH Viscosity	:	Stable under recomm Not applicable.		-	-	condition	s (see Sec	tion 7).
	_	Kinemalic troom lem	perature)	· >400 m	nm-/s			
	1	Kinematic (room tem Kinematic (40°C): >2		: >400 m	1m²/s			
-	:			: >400 m	1m²/s			
Viscosity	:	Kinematic (40°C): >2		: >400 m	1m²/s			
Viscosity	:	Kinematic (40°C): >2		: >400 m	1m-/s			
Viscosity Solubility(ies)	:	Kinematic (40°C): >2 > 100 s (ISO 6mm)		: >400 m	1m²/s			
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/	· : : / :	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble		: >400 m	1m²/s			
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	· : : / : :	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable.	1 mm²/s ́		ure at 20°C	Va	pour press	sure at 50°C
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	: : / : :	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble	1 mm²/s ́	ır Press		Va mm Hg	pour press	sure at 50°0
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	· : : : :	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable.	1 mm²/s ́ Vapou mm Hg	ır Press	ure at 20°C	mm		1
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure	:	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable.	1 mm²/s Vapou mm Hg 15.75128 : 1.7 (4-m	ar Press kPa 2.1 ethylper	ure at 20°C Method	mm Hg	kPa	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure	:	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable. Ingredient name 4-methylpentan-2-one Highest known value:	1 mm²/s Vapou mm Hg 15.75128 : 1.7 (4-m	ar Press kPa 2.1 ethylper	ure at 20°C Method	mm Hg	kPa	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	:	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable. Ingredient name 4-methylpentan-2-one Highest known value: 1.54compared with b	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta	ar Press kPa 2.1 ethylper te	ure at 20°C Method ntan-2-one)	mm Hg Weighte	kPa d average:	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density	: : : :	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable. Ingredient name 4-methylpentan-2-one Highest known value: 1.54compared with b 1.68 Highest known value:	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.1 (Air not explos	<b>Ir Press</b> <b>kPa</b> 2.1 ethylper te = 1) (1,2 ive, but	ure at 20°C Method Itan-2-one) 2,4-trimethy	Weighter	kPa d average: ). Weighte	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	: : : : :	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable. Ingredient name 4-methylpentan-2-one Highest known value: 1.54compared with b 1.68 Highest known value: 3.69 (Air = 1) The product itself is n	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.1 (Air not explos ir is possi	<b>kPa</b> 2.1 ethylper te = 1) (1, ive, but	ure at 20°C Method Itan-2-one) 2,4-trimethy the formatic	Weighter	kPa d average: ). Weighte	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	: : : : :	Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable. Ingredient name 4-methylpentan-2-one Highest known value: 1.54compared with b 1.68 Highest known value: 3.69 (Air = 1) The product itself is n vapour or dust with a	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.1 (Air not explos ir is possi	<b>kPa</b> 2.1 ethylper te = 1) (1, ive, but	ure at 20°C Method Itan-2-one) 2,4-trimethy the formatic	Weighter	kPa d average: ). Weighte	Method
Viscosity Solubility(ies) Media		Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable. Ingredient name 4-methylpentan-2-one Highest known value: 1.54compared with b 1.68 Highest known value: 3.69 (Air = 1) The product itself is n vapour or dust with a	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.1 (Air not explos ir is possi	<b>kPa</b> 2.1 ethylper te = 1) (1, ive, but	ure at 20°C Method Itan-2-one) 2,4-trimethy the formatic	Weighter	kPa d average: ). Weighte	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics		Kinematic (40°C): >2 > 100 s (ISO 6mm) Result Not soluble Not applicable. Ingredient name 4-methylpentan-2-one Highest known value: 1.54compared with b 1.68 Highest known value: 3.69 (Air = 1) The product itself is n vapour or dust with at Product does not pres	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.1 (Air not explos ir is possi	<b>kPa</b> 2.1 ethylper te = 1) (1, ive, but	ure at 20°C Method Itan-2-one) 2,4-trimethy the formatic	Weighter	kPa d average: ). Weighte	Method

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# **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%	LD50 Dermal	Rabbit	>3160 mg/kg	-
cumene				
	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			
	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	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists			

#### Conclusion/Summary : Ther

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary						
Skin : There are no data available on the mixture itself.						
Eyes : There are no data available on the mixture itself.						

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# **SECTION 11: Toxicological information**

#### Respiratory

: There are no data available on the mixture itself.

Product/ing	redient name	Route of exposure	Species	Result
zineb (ISO)		skin	Guinea pig	Sensitising
Conclusion/Summary		-		
Skin	: There are no data ava	ailable on the mixt	ure itself.	
Respiratory	: There are no data ava	ailable on the mixt	ure itself.	
Mutagenicity				
Conclusion/Summary	: There are no data ava	ailable on the mixt	ure itself.	
<b>Carcinogenicity</b>				
Conclusion/Summary	: There are no data ava	ailable on the mixt	ure itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data ava	ailable on the mixt	ure itself.	
<b>Teratogenicity</b>				
Conclusion/Summary	: There are no data ava	ailable on the mixt	ure itself.	-
Product/ir	ngredient name	Category	Route of exposure	Target organs
Information on likely routes of exposure	: Not available.		-	
Potential acute health effe	<u>ects</u>			
Inhalation	: Can cause central ne dizziness. May cause			cause drowsiness or
Ingestion	: Harmful if swallowed.	Can cause centra	al nervous system (C	NS) depression.
Skin contact	reaction.	-	ryness and irritation.	May cause an allergic skin
Eye contact	: Causes serious eye c	•		
	physical, chemical and to			
Inhalation	: Adverse symptoms m respiratory tract irritat coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	ion		
Ingestion	: Adverse symptoms m stomach pains	nay include the follo	owing:	
Skin contact	: Adverse symptoms m pain or irritation redness dryness cracking blistering may occur	nay include the follo	owing:	
Eye contact	: Adverse symptoms m pain watering redness	nay include the follo	owing:	
Delayed and immediate e	ffects as well as chronic e	ffects from short	and long-term exp	<u>osure</u>
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# **SECTION 11: Toxicological information**

	-
<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	<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	: 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
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 Fresh water	Algae	72 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
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**

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# **SECTION 12: Ecological information**

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	-	-

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

#### 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
xylene	3.12	7.4 to 18.5	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

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	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogu	<u>ie (EWC)</u>
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### Packaging

English (GB) United Arab Emirates

Conforms to Regulation (E 2020/878	C) No. 1907/2006 (F	REACH), Annex II, as amended by Commission	n Regulation (EU)	
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SECTION 13: Dispo	osal considera	ations		
Methods of disposal		on of waste should be avoided or minimised wher ould be recycled. Incineration or landfill should o ot feasible.		
Type of packaging		European waste catalogue (EWC)		
Container	15 01 06	mixed packaging		
Special precautions	taken when h Empty contain residues may Do not cut, w	and its container must be disposed of in a safe w andling emptied containers that have not been cl ners or liners may retain some product residues. create a highly flammable or explosive atmosphe eld or grind used containers unless they have bee roid dispersal of spilt material and runoff and cont ewers.	leaned or rinsed out. Vapour from product ere inside the container. en cleaned thoroughly	

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
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
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	<ul> <li>This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.</li> <li>(D/E)</li> </ul>
IMDG	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in
	packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in according to IM0 instruments	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001201502 Date of issue/Date of revision : 20 February 2024 SIGMA ECOFLEET 290 S BROWN **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. 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. : Not applicable. **Explosive precursors** 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

Indicates information that has changed from previously issued version.

	has changed from previously issued version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number</li> </ul>
Full text of abbreviated H statements	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H350 May cause cancer.</li> <li>H351 Suspected of causing cancer.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>EUH066 Repeated exposure may cause skin dryness or cracking.</li> </ul>
The state of the s	

# Full text of classifications [CLP/GHS]

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SIGINA ECOFLEET 290 5 D			
SECTION 16: Other	r information		
	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 1B Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZ LONG-TERM (CHRONIC) AQUATIC HAZ LONG-TERM (CHRONIC) AQUATIC HAZ LONG-TERM (CHRONIC) AQUATIC HAZ ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITAT SERIOUS EYE DAMAGE/EYE IRRITAT FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Cate SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY EXPOSURE - Category 3	AZARD - Category 1 AZARD - Category 2 AZARD - Category 3 TON - Category 1 TON - Category 2 gory 2
History	• 20 Eabruary 2024		
Date of issue/ Date of revision	: 20 February 2024		
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