# **SAFETY DATA SHEET**

United Arab Emirates

: 8.03

Date of issue/Date of revision

: 16 December 2024 Version

SECTION 1: Identif undertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMA ECOFLEET 290 S REDBROWN
Product code	: 00249481
Other means of identificate Not available.	ation
1.2 Relevant identified use	es 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 L PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	.td.
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 : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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

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

#### 2.2 Label elements

Code : 00249481	Date of issue/Date of revision : 16 December 2024
SIGMA ECOFLEET 290 S REI	DBROWN
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour. Harmful if swallowed.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Suspected of causing cancer.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	: Collect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P391, P403 + P233, P501</li> </ul>
Supplemental label elements	: Repeated exposure may cause skin dryness or cracking.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ents</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 assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Code :

: 00249481

Date of issue/Date of revision

: 16 December 2024

SIGMA ECOFLEET 290 S REDBROWN

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

### 3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dícopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10	[1] [2]
Hydrocarbons, C9, aromatics < 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥10 - ≤25	Skin Sens. 1, H317	-	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥5.0 - ≤10	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	≥5.0 - ≤10	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
copper	REACH #: 01-2119480154-42	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
		English	(GB) United Arab Er	nirates	3/18

 Code
 <th::00249481</th>
 Date of issue/Date of revision
 : 16 December 2024

 SIGMA ECOFLEET 290 S REDBROWN
 Image: Comparison of the state o

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

EC: 231-159-6 CAS: 7440-50-8	•	-	
the full text of the H statements declared above.		statements declared	

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

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### SUB codes represent substances without registered CAS Numbers.

# SECTION 4: First aid measures

## 4.1 Description of first aid measures

an Booonption of motula i	
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	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Potential acute health effects	<u>5</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

Code : 00249481	Date of issue/Date of revision : 16 December 2024
SIGMA ECOFLEET 290 S RE	DBROWN
SECTION 4: First aid	I measures
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immed	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.
<b>SECTION 5: Firefigh</b>	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	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides oxides of lead
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing</li> </ul>

**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.

Code : 00249481

SIGMA ECOFLEET 290 S REDBROWN

Date of issue/Date of revision :

: 16 December 2024

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

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into

Coop loak in without first. Move containers ment opin area. One optimit for the original 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 spill 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.

English (GB)

**United Arab Emirates** 

<b>Conforms to Regulat</b>	ion (EC) No.	1907/2006 (REACH)	, Annex II,	as amen	ded by Co	mmission Re	gulation (El	U)
2020/878								

Code : 00249481 SIGMA ECOFLEET 290 S REDBROWN Date of issue/Date of revision

: 16 December 2024

## **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	
<b>d</b> ícopper oxide	Ministry of Labor (France, 9/2023) [cuivre (fumées)] TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Fume.
Hydrocarbons, C9, aromatics < 0.1% cumene	Ministry of Labor (France, 9/2023) [hydrocarbures en C6-C12] TWA 8 hours: 1000 mg/m <sup>3</sup> . Form: Vapour. STEL 15 minutes: 1500 mg/m <sup>3</sup> . Form: Vapour.
rosin	Ministry of Labor (France, 9/2023)
	TWA 8 hours: 0.1 mg/m <sup>3</sup> (expressed as formaldehyde).
4-methylpentan-2-one	Ministry of Labor (France, 9/2023) Carc 2.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 83 mg/m <sup>3</sup> .
	STEL 15 minutes: 208 mg/m <sup>3</sup> .
	STEL 15 minutes: 50 ppm.
xylene	Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes,
	purs] Absorbed through skin.
	STEL 15 minutes: 442 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm.
	TWA 8 hours: 221 mg/m <sup>3</sup> .
	TWA 8 hours: 50 ppm.

Product/ingredient name	Exposure limit values
øícopper oxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper fume] TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: fumes. ACGIH TLV (United States, 7/2023) [copper fume] TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Fume.
rosin	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) Sensitiser, Keep exposure as low as possible.</li> <li>ACGIH TLV (United States, 7/2023) [resin acids] Skin sensitiser, Inhalation sensitiser.</li> <li>TWA 8 hours: 0.001 mg/m<sup>3</sup> (as total Resin acids). Form: Inhalable fraction.</li> </ul>
zinc oxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016)
	English (GB) United Arab Emirates 7/18

2020/878	
Code : 00249481	Date of issue/Date of revision         : 16 December 2024
SIGMA ECOFLEET 290 S REDBROW	
4-methylpentan-2-one	<ul> <li>STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: measured as respirable fraction of the aerosol and fume.</li> <li>TWA 8 hours: 2 mg/m<sup>3</sup>. Form: measured as respirable fraction of the aerosol and fume.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> <li>TWA 8 hours: 5 mg/m<sup>3</sup>. Form: fumes.</li> <li>STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: fumes.</li> <li>ACGIH TLV (United States, 7/2023)</li> <li>TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable fraction.</li> <li>STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Respirable fraction.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3.</li> <li>TWA 8 hours: 20 ppm.</li> <li>STEL 15 minutes: 307 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 75 ppm.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning</li> </ul>
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 75 ppm. TWA 8 hours: 205 mg/m <sup>3</sup> . STEL 15 minutes: 307 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. ACGIH TLV (United States, 7/2023) A3. TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm.
1,2,4-trimethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [trimethyl benzene (mixed isomers)] TWA 8 hours: 123 mg/m <sup>3</sup> . TWA 8 hours: 25 ppm. ACGIH TLV (United States, 7/2023) A4. TWA 8 hours: 10 ppm.
diiron trioxide	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 5 mg/m<sup>3</sup>. 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 8 hours: 5 mg/m<sup>3</sup>.</li> <li>ACGIH TLV (United States, 7/2023) A4. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.</li> </ul>
xylene	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit</li> <li>values (United Arab Emirates, 7/2016) [xylene (o, m &amp; p isomers)]</li> <li>A4.</li> <li>STEL 15 minutes: 651 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 150 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 100 ppm.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning</li> <li>Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> <li>[xylene (all isomers)]</li> <li>STEL 15 minutes: 150 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 150 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 651 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 40 ppm.</li> <li>TWA 8 hours: 100 ppm.</li> <li>ACGIH TLV (United States, 7/2023) [p-xylene and mixtures</li> <li>containing p-xylene] A4. Ototoxicant.</li> <li>TWA 8 hours: 20 ppm.</li> </ul>
	English (GB) United Arab Emirates 8/18

code : 00249481	Date of issue/Date of revision : 16 December 202
SIGMA ECOFLEET 290 S REDBROWN	
Talc , not containing asbestiform fibres copper(II) oxide	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 2 mg/m<sup>3</sup>. 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 8 hours: 2 mg/m<sup>3</sup>.</li> <li>ACGIH TLV (United States, 7/2023) A4. TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable fraction.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper fume] TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: fumes.</li> <li>ACGIH TLV (United States, 7/2023) [copper fume]</li> </ul>
copper	<ul> <li>TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Fume.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper dusts and mists] TWA 8 hours: 1 mg/m<sup>3</sup> (as Cu). Form: dusts and mists.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper fume] TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: fumes.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: fumes.</li> <li>TWA 8 hours: 1 mg/m<sup>3</sup>. Form: fumes.</li> <li>TWA 8 hours: 1 mg/m<sup>3</sup>. Form: fumes.</li> <li>TWA 8 hours: 1 mg/m<sup>3</sup>. Form: fumes.</li> <li>TWA 8 hours: 2.2 mg/m<sup>3</sup>. Form: fumes.</li> <li>TWA 8 hours: 1 mg/m<sup>3</sup>. Form: fumes.</li> <li>TWA 8 hours: 2.2 mg/m<sup>3</sup>. Form: Dusts and mists.</li> <li>ACGIH TLV (United States, 7/2023) [copper fume] TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Fume.</li> </ul>
✓methylpentan-2-one	<b>DOL BEI (South Africa, 3/2021)</b> BEI: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.
xylene	<b>DOL BEI (South Africa, 3/2021) [xylenes]</b> BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.
procedures Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as the following: European O (Workplace atmospheres - Guidance for the assessment of exposure chemical agents for comparison with limit values and measurement ean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and O European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical action to the assessments for methods for the determination postances will also be required.
.2 Exposure controls	
Appropriate engineering controls : Use only with add other engineering recommended of	equate ventilation. Use process enclosures, local exhaust ventilation of g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof

Individual protection measures

2020/878	
Code : 00249481	Date of issue/Date of revision : 16 December 2024
SIGMA ECOFLEET 290 S RE	DBROWN
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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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

### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Brownish-red.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	: Not determined.
Initial boiling point and	: >37.78°C
boiling range	
Flammability	: Not determined. There are no data available on the mixture itself.
Upper/lower flammability or explosive limits	: Not available.
	Manad augu 21°C
Flash point	: Ølosed cup: 31°C
Auto-ignition temperature	:

Code : 00249481			Date of	issue/l	Date of I	revisio	n	: 16 D	ecember 202
SIGMA ECOFLEET 290 S REDBI	ROV	VN							
SECTION 9: Physical a	nd	chemical prop	perties						
		Ingredient name		°C		°F		Method	
		zineb (ISO)		149		300.2			
Decomposition temperature	:	Stable under recomi	mended st	orage a	and hand	ling co	nditions	s (see Sec	tion 7).
рН	1	Not applicable. insol	uble in wa	er.		-		·	·
Viscosity	:	Kinematic (room ten	ynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/s						
Solubility(ies)	:								
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octano water	/:	Not applicable.							
Vapour pressure	:		Vapou	r Pres	r Pressure at 20°C		Vap	Vapour pressure at 50°C	
		Ingredient name	mm Hg	kPa	Meth	od	mm Hg	kPa	Method
		4-methylpentan-2-one	15.75128	2.1					
Relative density	:	1.68			1		1	•	-
Explosive properties	:	The product itself is vapour or dust with a			the forn	nation	of an ex	plosible m	nixture of
Oxidising properties article characteristics	- :	Product does not pre	esent an o	kidizing	hazard.				

### 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 halogenated compounds metal oxide/ oxides				

- Code : 00249481
- SIGMA ECOFLEET 290 S REDBROWN

Date of issue/Date of revision

: 16 December 2024

## **SECTION 11: Toxicological information**

## **11.1 Information on toxicological effects**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
Hydrocarbons, C9, aromatics < 0.1% cumene	LD50 Dermal	Rabbit - Male,	>2000 mg/kg	-
cumene		Female		
	LD50 Oral	Rat	8400 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours

**Conclusion/Summary** : 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**

: There are no data available on the mixture itself.

Eyes

Skin

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

### **Sensitisation**

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

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

Code : 00249481

Date of issue/Date of revision

: 16 December 2024

SIGMA ECOFLEET 290 S REDBROWN

# **SECTION 11: Toxicological information**

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Product/i	ngredient name	Result
Hydrocarbons, C9, aromatics < 0.1% cumene xylene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effect	<u>'S</u>	
Inhalation	: Can cause central nervous system dizziness. May cause respiratory i	(CNS) depression. May cause drowsiness or rritation.
Ingestion	: Harmful if swallowed. Can cause of	central nervous system (CNS) depression.
Skin contact	: Defatting to the skin. May cause s reaction.	kin dryness and irritation. May cause an allergic skin
Eye contact	: Causes serious eye damage.	
Symptoms related to the ph	<u>ysical, chemical and toxicological c</u>	haracteristics
Inhalation	: Adverse symptoms may include th respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	e following:
Ingestion	: Adverse symptoms may include th stomach pains	e following:
Skin contact	: Adverse symptoms may include th pain or irritation redness dryness cracking blistering may occur	e following:
Eye contact	: Adverse symptoms may include th pain watering redness	e following:
Delayed and immediate effe	cts as well as chronic effects from s	short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects Long term exposure	: Not available.	

- Code : 00249481
- SIGMA ECOFLEET 290 S REDBROWN

Date of issue/Date of revision

: 16 December 2024

## **SECTION 11: Toxicological information**

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	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.
Prolonged or repeated contact	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**

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
Hydrocarbons, C9, aromatics < 0.1% cumene	LC50 9.2 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water	Ŭ	
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

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9, aromatics < 0.1% cumene	-	78 % - 28 days	-	-
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

English (GB) United Arab Emirates

Code : 00249481		Date of issue	Date of issue/Date of revision	
U)	SIGMA ECOFLEET 290 S REDBROWN			
0,	SECTION 12: Ecological information	n		
	Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
	₩ydrocarbons, C9, aromatics < 0.1% cumene 4-methylpentan-2-one xylene		- - -	Readily Readily Readily

### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
₩ydrocarbons, C9, aromatics < 0.1% cumene	3.7 to 4.5	10 to 2500	High
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	: Yes.
European waste catalog	ue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878			
Code	: 00249481	Date of issue/Date of revision	: 16 December 2024
SIGMA EC	OFLEET 290 S REDBROWN		

## **SECTION 13: Disposal considerations**

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06 mixed packaging		
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

# **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	111		III
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 Tunnel code IMDG IATA	≤5 kg. : (D/E) : The marir	mentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ . mentally hazardous substance mark may appear if required by other transportation
14.6 Special pre user	cautions for	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO		: Not applicable.

instruments

ments

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u> <u>Annex XIV - List of substances subject to authorisation</u> <u>Annex XIV</u> None of the components are listed.

Substances of very high concern

2020/878 Code : 00249481		Date of issue/Date of revision	: 16 December 2024
SIGMA ECOFLEET 290 S RE	EDBROWN		
SECTION 15: Regul	atory information		
None of the components a			
Annex XVII - Restrictions			
on the manufacture,			
placing on the market and use of certain			
dangerous substances,			
mixtures and articles			
Other national and interna			
Explosive precursors	: Not applicable.		
Ozone depleting substand Not listed.	<u>ces (1005/2009/EU)</u>		
NOT IISTED.			
15.2 Chemical safety	: No Chemical Safety As	ssessment has been carried out.	
assessment			
SECTION 16: Other	information		
Indicates information that	has changed from previous	sly issued version.	
Abbreviations and	: ATE = Acute Toxicity I		
acronyms	CLP = Classification, I 1272/2008]	_abelling and Packaging Regulation [Re	gulation (EC) No.
	DNEL = Derived No E	ffect Level	
		P-specific Hazard statement	
	PNEC = Predicted No RRN = REACH Regist		
Full text of abbreviated H	-	nable liquid and vapour.	
statements	H226 Flammable I	liquid and vapour.	
	H302 Harmful if sv H304 May be fatal	vallowed. if swallowed and enters airways.	
		ontact with skin.	
	H315 Causes skin		
	-	an allergic skin reaction. ous eye damage.	
	H319 Causes serie	ous eye irritation.	
	H332 Harmful if in		
		espiratory irritation. drowsiness or dizziness.	
	H351 Suspected c	of causing cancer.	
	H400 Very toxic to H410 Very toxic to	aquatic life. aquatic life with long lasting effects.	
	5	atic life with long lasting effects.	
		quatic life with long lasting effects.	
	•	kposure may cause skin dryness or crac	king.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATI	C HAZARD - Category 1
	Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUAT	
	Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUAT	FIC HAZARD - Category 2
	Aquatic Chronic 3 Asp. Tox. 1	LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category	
	Carc. 2	CARCINOGENICITY - Category 2	
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRI	RITATION - Category 1
	Eye Irrit. 2 Flam. Liq. 2	SERIOUS EYE DAMAGE/EYE IRI FLAMMABLE LIQUIDS - Category	0,
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category	
	Skin Irrit. 2	SKIN CORROSION/IRRITATION	

SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

English (GB) United Arab Emirates

Skin Sens. 1 STOT SE 3

17/18

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
Code	: 00249481	Date of issue/Date of revision	: 16 December 2024	
SIGMA ECOFLEET 290 S REDBROWN				

## **SECTION 16: Other information**

EXPOSURE - Category 3

<u>History</u>	
Date of issue/ Date of revision	: 16 December 2024
Date of previous issue	: 12 April 2024
Prepared by	: EHS
Version	: 8.03

## <u>Disclaimer</u>

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to 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 measures described in this data sheet or for any misuse of the products.