# SAFETY DATA SHEET

**United Arab Emirates** 

: 2.02

#### Date of issue/Date of revision : 7 July 2024 Version SECTION 1: Identification of the substance/mixture and of the company/

## undertaking

1.1 Product identifier		
Product name	÷	SIGMA ECOFLEET 530 BLUE
Product code	÷	00445159
Other means of identification	n	
Not available.		

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Antifouling products
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

### 1.3 Details of the supplier of the safety data sheet

Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
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. Lig. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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

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

### 2.2 Label elements

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SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging the unborn child. 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P391, P305 + P351 + P338, P501</li> </ul>
Hazardous ingredients	<ul> <li>dicopper oxide rosin</li> <li>5-methylhexan-2-one</li> <li>4,5-dichloro-2-octyl-2H-isothiazol-3-one</li> <li>1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene</li> <li>Cashew, nutshell liq.</li> <li>octhilinone (ISO)</li> </ul>
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ients
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 vPv
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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

### 3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øicopper 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]
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]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤16	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]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥10 - ≤25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
5-methylhexan-2-one	REACH #: 01-2119472300-51 EC: 203-737-8 CAS: 110-12-3 Index: 606-026-00-4	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H332 Repr. 2, H361d (inhalation)	ATE [Inhalation (gases)] = 5000 ppm	[1] [2]
4,5-dichloro-2-octyl-2H- isothiazol-3-one	EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8	≥1.0 - ≤3.6	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 567 mg/ kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 0.16 mg/l Skin Corr. 1, H314: C $\geq$ 5% Skin Irrit. 2, H315: 0.025% $\leq$ C < 5% Eye Dam. 1, H318: C $\geq$ 3% Eye Irrit. 2, H319: 0.025% $\leq$ C < 3% Skin Sens. 1, H317: C $\geq$ 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
ethylbenzene	REACH #:	≥1.0 - ≤5.0	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
-		English			3/19

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SECTION 3: Com	position/informat	tion on ii	ngredients		
	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	(vapours)] = 17.8 mg/l	
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≥1.0 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1] [2]
Cashew, nutshell liq.	EC: 232-355-4	<1.0	Acute Tox. 4, H302	ATE [Oral] = 500 mg/	[1]

Acute Tox. 4, H312

Skin Irrit. 2, H315 Eye Dam. 1, H318

Skin Sens. 1, H317

Acute Tox. 3, H301

Acute Tox. 3. H311

Acute Tox. 2. H330

Skin Corr. 1, H314

Eye Dam. 1, H318

EUH071

above.

Skin Sens. 1A, H317

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

Aquatic Acute 1, H400 Aquatic Chronic 1, H410 kg

kg

mg/kg

≥ 0.0015%

M [Acute] = 100 M [Chronic] = 100

mg/kg

ATE [Dermal] = 1100

ATE [Oral] = 125 mg/

ATE [Dermal] = 311

ATE [Inhalation (dusts

and mists)] = 0.27 mg/l

Skin Sens. 1, H317: C

[1]

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

octhilinone (ISO)

<u>Type</u>

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

< 0.0010

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

SUB codes represent substances without registered CAS Numbers.

CAS: 8007-24-7

EC: 247-761-7

CAS: 26530-20-1

Index: 613-112-00-5

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

4.1 Description of first aid n	neasures
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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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 Eye contact : Causes serious eye damage. Inhalation : Harmful if inhaled. : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Skin contact Ingestion : Harmful if swallowed. **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: pain watering redness : Adverse symptoms may include the following: Inhalation reduced foetal weight increase in foetal deaths skeletal malformations **Skin contact** : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations Ingestion Adverse symptoms may include the following: 5 stomach pains reduced foetal weight increase in foetal deaths skeletal malformations 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. **Specific treatments** : No specific treatment.

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## SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	<ul> <li>Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides</li> </ul>
5.3 Advice for firefighters	
Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

 · Cop leak in without tisk. Move containers from spin area. Ose 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.

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

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. Avoid exposure during pregnancy. 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.
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.

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## **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] TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: fumes</li> <li>ACGIH TLV (United States, 7/2023). [copper fume] 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. Inhalat sensitiser.</li> </ul>				
xylene	ACGIH TLV (United States, 7/2023). [resin acids] Skin sensitiser. Inhalation sensitiser. TWA: 0.001 mg/m <sup>3</sup> , (as total Resin acids) 8 hours. Form: Inhalable fraction Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m <sup>3</sup> 15 minutes.				
	STEL: 150 ppm 15 minutes.TWA: 434 mg/m³ 8 hours.TWA: 100 ppm 8 hours.Cabinet Decree (12) of 2006 Regarding Regulation ConcerningProtection of Air from Pollution (United Arab Emirates, 5/2006).[xylene (all isomers)]STEL: 150 ppm 15 minutes.TWA: 434 mg/m³ 8 hours.STEL: 651 mg/m³ 15 minutes.TWA: 100 ppm 8 hours.ACGIH TLV (United States, 7/2023). [p-xylene and mixturescontaining p-xylene] Ototoxicant.TWA: 20 ppm 8 hours.				
zinc oxide	<ul> <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> <li>ACGIH TLV (United States, 7/2023). 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> </ul>				
5-methylhexan-2-one	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 234 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).				
·	English (GB) United Arab Emirates 8/19				

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titanium dioxide	TWA: 234 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. <b>ACGIH TLV (United States, 7/2023).</b> TWA: 93 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 234 mg/m <sup>3</sup> 15 minutes. <b>Abu Dhabi - OSHAD - Occupational air quality threshold limit</b> values (United Arab Emirates, 7/2016). TWA: 10 mg/m <sup>3</sup> 8 hours. <b>Cabinet Decree (12) of 2006 Regarding Regulation Concerning</b> <b>Protection of Air from Pollution (United Arab Emirates, 5/2006)</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
	TWA: 10 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 7/2023).</b> TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable fraction, finescale particles
ethylbenzene	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>STEL: 543 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 125 ppm 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> <li>STEL: 125 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 543 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 543 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>ACGIH TLV (United States, 7/2023). Ototoxicant. Notes:</li> <li>Substances for which there is a Biological Exposure Index or Indices 2002 Adoption.</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).</li> <li>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, 7/2023).</li> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> </ul>
copper oxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [copper fume] TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: fumes ACGIH TLV (United States, 7/2023). [copper fume] TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume

**Recommended monitoring** procedures 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

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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: Chemical splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear 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	: Blue.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	<ul> <li>May start to solidify at the following temperature: -74°C (-101.2°F) This is based on data for the following ingredient: 5-methylhexan-2-one. Weighted average: -87.39°C (-125.3°F)</li> </ul>

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SECTION 9: Physical	and	chemical prop	oerties					
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	: Not available.						
Upper/lower flammability or explosive limits	:	: Greatest known range: Lower: 1.8% Upper: 9% (5-methylhexan-2-one)						
Flash point	:	Closed cup: 29°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		29H,31H-phthalocyanina N30,N31,N32 copper	to(2-)-N29,	356	672.8		EU A.16	
Decomposition temperature	:	Stable under recomn	nended st	orage an	nd handling	conditior	ns (see Sec	tion 7).
рН	:	Not applicable. insolu		ter.				
Viscosity	:	Kinematic (40°C): >2	21 mm²/s					
Solubility(ies)								
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octane water	ol/ :	Not applicable.						
Vapour pressure			Vapour Pressure at 20°C Vapour pressure					sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2				
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (etl	nylbenzei	ne) Weight	ed avera	ige: 0.66co	mpared with
Relative density		1.88						
Vapour density		Highest known value 3.77 (Air = 1)			-	-	-	-
Explosive properties	:	The product itself is r vapour or dust with a			he formatio	n of an e	explosible n	nixture of
Oxidising properties	- 1	Product does not pre	sent an o	xidizing h	nazard.			
Particle characteristics		Net any Post 1						
Median particle size		Not applicable.						
9.2 Other information								
No additional information.								
SECTION 10: Stability		<b>G reactivity</b> specific test data rela	ted to rea	ctivitv av	ailable for t	nis produ	uct or its inc	redients.
····· <b>···</b>		,				1		, <b>-</b> -
10.2 Chemical stability	: Th	The product is stable.						

**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.

hazardous reactions

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SECTION 10: Stabilit	y and reactivity
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

# **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		Ū	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
5	LD50 Oral	Rat	4.3 g/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists		<b>- -</b>	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
5-methylhexan-2-one	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
- ···	LD50 Dermal	Rabbit	8.14 g/kg	-
	LD50 Oral	Rat	5657 mg/kg	-
4,5-dichloro-2-octyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and	Rat	0.16 mg/l	4 hours
.,	mists		<u>-</u>	
	LD50 Dermal	Rabbit	3.9 g/kg	-
	LD50 Oral	Rat	567 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists			
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists	, lat	0.00 mg/	1 nouro
octadecanoic acid and				
1,3-phenylenedimethanamine				
octhilinone (ISO)	LC50 Inhalation Dusts and	Rat	0.27 mg/l	4 hours
( /	mists			
	LD50 Dermal	Rabbit	311 mg/kg	_
	LD50 Oral	Rat	125 mg/kg	_
		, tat	120 1119/119	

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

### Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation	
<b>x</b> ylene		Skin - Moderate irritant Rabbit -		-	24 hours 500 mg	-	
Conclusion/Summary				1		L	
Skin	: There are no data available on the mixture itself.						
Eyes	: There are no data available on the mixture itself.						
Respiratory	: There are no data available on the mixture itself.						
Sensitisation							

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Product/ingred	ient name		Route exposi		Species	F	Result	
øcthilinone (ISO)			skin		Mouse	Sensitisi	Sensitising	
Conclusion/Summary								
Skin	: There are	no data availa	able on the	mixtur	e itself.			
Respiratory	: There are	no data availa	able on the	mixtur	e itself.			
<u>lutagenicity</u>								
Conclusion/Summary	: There are	no data availa	able on the	mixtur	e itself.			
Carcinogenicity								
Conclusion/Summary	: There are	no data availa	able on the	mixtur	e itself.			
Reproductive toxicity						·		
Product/ingredient name	Maternal toxicity	Fertility	Developm toxir		Species	Dose	Exposure	
5-methylhexan-2-one	-	- Equivocal			Rabbit	Inhalation: 1250 ppm	-	
Conclusion/Summary	: There are	no data availa	able on the	mixtur	e itself.			
eratogenicity								
Conclusion/Summary	: There are	no data availa	able on the	mixtur	e itself.			
pecific target organ toxicit	<u>y (single expo</u>	<u>osure)</u>						
Product/ingr		Cate	gory	Route of exposure	Target organs			
xylene 4,5-dichloro-2-octyl-2H-isothiazol-3-one			Catego Catego		-	Respiratory tract irritation Respiratory tract irritation		
Specific target organ toxicit	y (repeated ex	<u>kposure)</u>						
Product/ingr	edient name		Cate	jory	Route of exposure	Target	organs	
ethylbenzene			Catego	ory 2	-	hearing organ	hearing organs	
Aspiration hazard			•			- <b>!</b>		
Product/ii	ngredient nan	ne			F	Result		
xylene ethylbenzene				ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1				
nformation on likely outes of exposure	: Not availat	ole.						
Potential acute health effect	<u>s</u>							
Inhalation	: Harmful if i	inhaled.						
Ingestion	: Harmful if	swallowed.						
Skin contact	: Causes sk	in irritation. D	Defatting to	the sk	in. May cause an a	allergic skin rea	ction.	
Eye contact	: Causes se	rious eye dan	nage.					
Symptoms related to the phy	ysical, chemi	cal and toxic	ological ch	naract	eristics			
Inhalation	reduced fo	foetal deaths		e follov	ving:			

skeletal malformations

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### **SECTION 11: Toxicological information**

Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following:
	pain watering
	redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</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	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging the unborn child.
Other information	: Not available.
Prolonged or repeated contac	t may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

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## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dícopper oxide	LC50 0.003 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		
5-methylhexan-2-one	Acute LC50 159 mg/l	Fish	96 hours
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Acute EC50 267.368 µg/l	Algae - Nitzschia	96 hours
	Marine water	pungens	
	Acute LC50 0.318 mg/l	Crustaceans -	48 hours
	Marine water	Artemia sp.	
	Acute LC50 0.0027 mg/l	Fish	96 hours
	Fresh water		
	Chronic NOEC 19.789 µg/l	Algae - Nitzschia	96 hours
	Marine water	pungens	
	Chronic NOEC 0.00056 mg/l	Fish	97 days
	Fresh water		_
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
-	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i>	21 days
		magna - Neonate	
Reaction products of 12-hydroxyoctadecanoic acid	Acute LC50 >100 mg/l	Fish	96 hours
and octadecanoic acid and			
1,3-phenylenedimethanamine			

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

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
万→methylhexan-2-one ethylbenzene	OECD 301D -	67 % - Readily - 28 days 79 % - Readily - 10 days		-		-
Conclusion/Summary	Conclusion/Summary : There are no data available on the mixture itself.					
Product/ingredient name	Aquatic half-life	Photo	lysis	В	iodegradability	
ylene 5-methylhexan-2-one ethylbenzene			- - -		Re	eadily eadily eadily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>r</b> osin	1.9 to 7.7	-	High
xylene	3.12	7.4 to 18.5	Low
5-methylhexan-2-one	1.88	-	Low
ethylbenzene	3.6	79.43	Low
Cashew, nutshell liq.	>4.78	-	High
octhilinone (ISO)	2.45	-	Low

#### **12.4 Mobility in soil**

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### **SECTION 12: Ecological information**

Soil/water partition coefficient (K<sub>oc</sub>) Mobility : Not available.

: 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 catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
ackaging	
Methods of disposal	<ul> <li>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.</li> </ul>
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.

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### **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dicopper oxide)	Not applicable.

### **Additional information**

ADR/RID Tunnel code IMDG IATA	≤5 kg. : (D/E) : The marine po	entally hazardous substance mark is not required when transported in sizes of $\leq$ 5 L or ollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg. entally hazardous substance mark may appear if required by other transportation
14.6 Special pre user	ι	<b>Fransport 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 i according to IM		Not applicable.

#### instruments

### **SECTION 15: Regulatory information**

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

### Annex XIV - List of substances subject to authorisation

### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

### Other national and international regulations.

**Explosive precursors** : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

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15.2 Chemical safety assessment	: No Chemical Safety Ass	essment has been carried out.	
SECTION 16: Other	information		
Indicates information that	has changed from previously	issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived No Effe	belling and Packaging Regulation [Reg ect Level specific Hazard statement ffect Concentration	gulation (EC) No.
Full text of abbreviated H statements	<ul> <li>H225 Highly flamma H226 Flammable liq H301 Toxic if swallo H302 Harmful if swa H304 May be fatal if H311 Toxic in conta H312 Harmful in cor H314 Causes sever H315 Causes skin ir H317 May cause an H318 Causes seriou H319 Causes seriou H319 Causes seriou H310 Fatal if inhaled H332 Harmful if inha H335 May cause res H361d Suspected of H373 May cause da H400 Very toxic to a H410 Very toxic to a H412 Harmful to aqu</li> </ul>	ble liquid and vapour. uid and vapour. wed. illowed. swallowed and enters airways. ct with skin. tact with skin. e skin burns and eye damage. ritation. allergic skin reaction. Is eye damage. Is eye damage. Is eye irritation. d. aled. spiratory irritation. damaging the unborn child. mage to organs through prolonged or r quatic life. quatic life with long lasting effects. Jatic life with long lasting effects.	
Full text of classifications [CLP/GHS]	<ul> <li>Cute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2</li> </ul>	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATI LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category REPRODUCTIVE TOXICITY - Cat SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOXI EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXI EXPOSURE - Category 3	IC HAZARD - Category IC HAZARD - Category IC HAZARD - Category 1 RTATION - Category 1 RTATION - Category 2 2 3 egory 2 Category 1 Category 2 1 1A ICITY - REPEATED

English (GB) United Arab Emirates

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SECTION 16: Othe	r information				
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Date of previous issue	: 22 November 2022				
Prepared by	: EHS				
Version	: 2.02				

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