# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 11 June 2024

Version

: 1.01



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

1.1 Product identifier	
Product name	: SIGMA ECOFLEET 530 REDBROWN
Product code	: 000001202285
Other means of identificat 00477408	ion
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 o	f the safety data sheet
Sigma Paint Saudi Arabia Lt PO Box 7509, Dammam 314 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
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 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

Code : 000001202285		Date of issue/Date of revision	: 11 June 2024
SIGMA ECOFLEET 530 REDBROWN			
SECTION 2: Hazards	identification		
Hazard pictograms			
Hazard statements	: Danger	dvanaur	
Hazard statements		l or if inhaled. n. ic skin reaction.	
Precautionary statements			
Prevention		ves, protective clothing and eye or face pro parks, open flames and other ignition sou nment.	
Response		N EYES: Rinse cautiously with water for s esent and easy to do. Continue rinsing.	several minutes. Remove
Storage	: Not applicable.		
Disposal	international regulati	and container in accordance with all local ons. P391, P305 + P351 + P338, P501	, regional, national and
Hazardous ingredients	: dicopper oxide rosin 5-methylhexan-2-on 4,5-dichloro-2-octyl-2 1,3-bis[12-hydroxy-o Cashew, nutshell liq octhilinone (ISO)	2H-isothiazol-3-one octadecamide-N-methylene]-benzene	
Supplemental label elements	: Not applicable.		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Special packaging requirem	<u>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	ot contain any substances that are assess	ed to be a PBT or a vPvI
Other hazards which do not result in classification	: Prolonged or repeate	ed contact may dry skin and cause irritatio	on.

Code : 000001202285

Date of issue/Date of revision

: 11 June 2024

SIGMA ECOFLEET 530 REDBROWN

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

### 3.2 Mixtures

: Mixture

				1	r
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dicopper 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]
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]
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	≥5.0 - ≤10	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]
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 - ≤4.3	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 ≥ 5% Skin Irrit. 2, H315: $0.025\% \le C < 5\%$ Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: $0.025\% \le C < 3\%$ Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
ethylbenzene	REACH #:	≥1.0 - ≤5.0	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
		English	(GB) Saudi	Arabia	3/17

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

Code : 000001202285	Date of issue/Date of revision	: 11 June 2024		
SIGMA ECOFLEET 530 REDBROWN				
SECTION 3: Composition/information on ingredients				

	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 CAS: 8007-24-7	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
octhilinone (ISO)	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	<0.0010	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 See Section 16 for	ATE [Oral] = 125 mg/ kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: C $\geq$ 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
			the full text of the H statements declared above.		

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

	English (GB)	Saudi Arabia	4/17
Skin contact	: Remove contaminated clothing and sho or use recognised skin cleanser. Do NC		oap and water
Inhalation	<ul> <li>Remove to fresh air. Keep person warm irregular or if respiratory arrest occurs, p personnel.</li> </ul>		
Eye contact	: Check for and remove any contact lense at least 15 minutes, keeping eyelids ope		
4.1 Description of first	aid measures		

Code	: 000001202285	Date of issue/Date of revision	: 11 June 2024
SIGMA ECOF	LEET 530 REDBROWN		

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

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 effec	S S
Eye contact	– : Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sympt	<u>oms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: 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: 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	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.

## SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

English (GB)

 Code
 <th::000001202285</th>
 Date of issue/Date of revision
 : 11 June 2024

SIGMA ECOFLEET 530 REDBROWN

SECTION 5: Firefighting measures

ezemente. Energin	
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
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 proc	edures	
For non-emergency personnel	:	Evacuate surrounding areas. Keep un entering. Do not touch or walk through flares, smoking or flames in hazard are	personal risk or without suitable training. necessary and unprotected personnel from spilt material. Shut off all ignition source ea. Do not breathe vapour or mist. Provid e respirator when ventilation is inadequate ipment.	es. No de
For emergency responders	:		al with the spillage, take note of any inforr aterials. See also the information in "For	
6.2 Environmental precautions	:	sewers. Inform the relevant authorities	noff and contact with soil, waterways, drai if the product has caused environmental r). Water polluting material. May be harn antities. Collect spillage.	
6.3 Methods and material for	со	ntainment and cleaning up		
Small spill	:	explosion-proof equipment. Dilute with	ers from spill area. Use spark-proof tools water and mop up if water-soluble. Alter ert dry material and place in an appropriate ensed waste disposal contractor.	natively,
Large spill	:	explosion-proof equipment. Approach sewers, water courses, basements or of treatment plant or proceed as follows. combustible, absorbent material e.g. sa place in container for disposal according	ers from spill area. Use spark-proof tools the release from upwind. Prevent entry in confined areas. Wash spillages into an el Contain and collect spillage with non- and, earth, vermiculite or diatomaceous e ig to local regulations. Dispose of via a lic red absorbent material may pose the sam	nto ffluent arth and censed
6.4 Reference to other sections	:	See Section 1 for emergency contact in See Section 8 for information on appro See Section 13 for additional waste tree	priate personal protective equipment.	
		English (GB)	Saudi Arabia	6/17

Code : 000001202285

Date of issue/Date of revision :

: 11 June 2024

SIGMA ECOFLEET 530 REDBROWN

## **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.

### **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	ACGIH TLV (United S	ACGIH TLV (United States, 7/2023). [copper fume]				
	TWA: 0.2 mg/m <sup>3</sup> 8 ho	urs. Form: Fume				
rosin	ACGIH TLV (United States, 7/2023). [resin acids] Skin sensitiser					
	Inhalation sensitiser.					
	TWA: 0.001 mg/m³, (as total Resin acids) 8 hours. Form: Inhalal					
	fraction					
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed					
, yielde	through skin.					
	STEL: 442 mg/m <sup>3</sup> 15 minutes.					
	STEL: 100 ppm 15 minutes.					
	English (GB)	Saudi Arabia	7/17			

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001202285 Date of issue/Date of revision : 11 June 2024 SIGMA ECOFLEET 530 REDBROWN TWA: 221 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. 5-methylhexan-2-one EU OEL (Europe, 1/2022). TWA: 95 ma/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. ACGIH TLV (United States). 1,3-bis[12-hydroxy-octadecamide-N-methylene]benzene TWA: 3 mg/m<sup>3</sup>, (Respirable fraction) **Recommended monitoring** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure procedures 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** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or controls 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 measures **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** : Chemical splash goggles and face shield. **Skin protection** 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.

English (GB) Saudi Arabia 8/17

Code : 00000120228	5 Date of issue/Date	of revision : 11 June 2024
SIGMA ECOFLEET 530 RED	BROWN	
Other skin protection	Appropriate footwear and any additional skin p based on the task being performed and the risl specialist before handling this product.	
<b>Respiratory protection</b>	4	
Environmental exposure controls	: Emissions from ventilation or work process equilibrium they comply with the requirements of environm cases, fume scrubbers, filters or engineering millibrium be necessary to reduce emissions to accept	nental protection legislation. In some nodifications to the process equipment

## **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 Colour Odour Odour threshold	:	Liquid.							
Colour Odour Odour threshold	÷	Liquid.							
Odour Odour threshold		Brownish-red.							
Odour threshold									
		Aromatic. [Strong]	lot available.						
The states as a first filler and states as a first	1.1				7.	00 ( 404			
Melting point/freezing point			lay start to solidify at the following temperature: -74°C (-101.2°F) This is based on ata for the following ingredient: 5-methylhexan-2-one. Weighted average: -86.55°C 123.8°F)						
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.8% (	Jpper: 9% (5-ı	methylhe	xan-2-one	e)	
Flash point	:	Closed cup: 29°C							
Auto-ignition temperature	:	Ingredient name		°C	°F		Method		
		5-methylhexan-2-one		400	752	E	U A.15		
Decomposition temperature	:	Stable under recomm	Stable under recommended storage and handling conditions (see Section 7).						
рН	:	Not applicable.							
Viscosity	:	Kinematic (room tem Kinematic (40°C): >2	• •	: >400 r	mm²/s				
Viscosity	:	60 - 100 s (ISO 6mm	ı)						
Solubility(ies)	:								
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octanol/ water	:	Not applicable.							
Vapour pressure	:	la ma dia nt mana	Vapoι	ır Press	sure at 20°C	Vap	our pres	sure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		ethylbenzene	9.30076	1.2					
Evaporation rate	:	L Highest known value butyl acetate	: 0.84 (eth	ylbenze	ene) Weighte	d average	e: 0.65co	mpared with	
Relative density	:	1.94							
Vapour density	:	Highest known value 3.78 (Air = 1)	ighest known value: 3.9 (Air = 1) (5-methylhexan-2-one). Weighted average:						
Explosive properties	:								

Code: 000001202285Date of issue/Date of revision: 11 June 2024SIGMA ECOFLEET 530 REDBROWN

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

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

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

: Not applicable.

#### 9.2 Other information

No additional information.

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

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredi	ents.
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 occu	ır.
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition p Refer to protective measures listed in sections 7 and 8.	products.
10.5 Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions oxidising agents, strong alkalis, strong acids.	3:
10.6 Hazardous decomposition products	Depending on conditions, decomposition products may include the following m carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal 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	-
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	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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			
	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	-
	English (GB)	Saudi	Arabia	10/17

Code : 000001202285 Date of issue/Date of revision : 11 June 2024 SIGMA ECOFLEET 530 REDBROWN

## **SECTION 11: Toxicological information**

	LD50 Oral	Rat	3.5 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
octhilinone (ISO)	LC50 Inhalation Dusts and mists	Rat	0.27 mg/l	4 hours
	LD50 Dermal	Rabbit	311 mg/kg	-
	LD50 Oral	Rat	125 mg/kg	-

**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**

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.

: There are no data available on the mixture itself.

#### **Sensitisation**

Product/ingred	lier	nt name		Route of exposure	Species	F	Result
octhilinone (ISO)				skin	Mouse	Sensitisi	ng
Conclusion/Summary					1		
Skin	:	There are r	no data avail	able on the mixtur	e itself.		
Respiratory	:	There are r	no data avail	able on the mixtur	e itself.		
Mutagenicity							
Conclusion/Summary	:	There are r	no data avail	able on the mixtur	e itself.		
Carcinogenicity							
Conclusion/Summary	:	There are r	no data avail	able on the mixtur	e itself.		
Reproductive toxicity							
Product/ingredient name		Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
5-methylhexan-2-one	-		-	Equivocal	Rabbit	Inhalation: 1250 ppm	-
Conclusion/Summary	:	There are r	no data avail	able on the mixtur	e itself.		
Teratogenicity							
Conclusion/Summary	1	There are r	no data avail	able on the mixtur	e itself.		
Product/ing	red	ient name		Category	Route of exposure	Target	organs
Information on likely routes of exposure	:	Not availab	le.	I			
Potential acute health effect	<u>ts</u>						
Inhalation	:	Harmful if i	nhaled.				
Ingestion	:	Harmful if s	swallowed.				
Skin contact	:	Causes ski	n irritation. I	Defatting to the sk	in. May cause an al	lergic skin rea	ction.
			En	glish (GB)	Saudi Arab	ia	11/17

Code<th:: 000001202285</th>Date of issue/Date of revision: 11 June 2024SIGMA ECOFLEET 530 REDBROWN

## **SECTION 11: Toxicological information**

Eye contact	: Causes serious eye damage.
· · · · · · · · · · · · · · · · · · ·	vsical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following:
Innalation	reduced foetal weight increase in foetal deaths skeletal malformations
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 Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: 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 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**

English (GB)

Code : 000001202285

SIGMA ECOFLEET 530 REDBROWN

Date of issue/Date of revision

: 11 June 2024

## **SECTION 11: Toxicological 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
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
5-methylhexan-2-one ethylbenzene	OECD 301D -	67 % - Readily - 28 da 79 % - Readily - 10 da		-		-
Conclusion/Summary : There are no data available on the mixture itself.						
Product/ingredient name		Aquatic half-life	Photo	olysis	B	iodegradability
xylene 5-methylhexan-2-one ethylbenzene					Re	eadily eadily eadily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>F</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
	I		
	English (GB)	Saudi Ara	bia <i>13/17</i>

Code : 000001202285 SIGMA ECOFLEET 530 REDBROWN Date of issue/Date of revision

: 11 June 2024

## **SECTION 12: Ecological information**

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 catalogue (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.

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.

Code: 000001202285Date of issue/Date of revision: 11 June 2024SIGMA ECOFLEET 530 REDBROWN

## **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	111	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**

<b>SECTION 1</b>	5: Regulatory information
14.7 Transport i according to IM instruments	
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.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
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.
Tunnel code	: (D/E)
ADR/RID	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.

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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001202285 Date of issue/Date of revision : 11 June 2024

SIGMA ECOFLEET 530 REDBROWN

## **SECTION 15: Regulatory information**

: 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.

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	H226Flammable licH301Toxic if swalleH302Harmful if swalleH304May be fatal ifH311Toxic in contaH312Harmful in colH314Causes severH315Causes skin iH317May cause arH318Causes seriorH319Causes seriorH330Fatal if inhaleH332Harmful if inhaleH335May cause reH361dSuspected ofH373May cause daH400Very toxic to aH410Very toxic to aH412Harmful to aqH413May cause loor	<ul> <li>Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H301 Toxic if swallowed.</li> <li>H302 Harmful if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H311 Toxic in contact with skin.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</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 damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H320 Harmful if inhaled.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H361d Suspected of damaging the unborn child.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H413 May cause long lasting harmful effects to aquatic life.</li> </ul>			
Full text of classifications [CLP/GHS]	: Acute 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. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2	<ul> <li>b the respiratory tract.</li> <li>ACUTE TOXICITY - Category 2</li> <li>ACUTE TOXICITY - Category 3</li> <li>ACUTE TOXICITY - Category 4</li> <li>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category</li> <li>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category</li> <li>ASPIRATION HAZARD - Category 1</li> <li>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1</li> <li>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</li> <li>FLAMMABLE LIQUIDS - Category 3</li> <li>REPRODUCTIVE TOXICITY - Category 1</li> <li>SKIN CORROSION/IRRITATION - Category 1</li> <li>SKIN CORROSION/IRRITATION - Category 1</li> <li>SKIN SENSITISATION - CATEGORY 1</li> </ul>		D - Category 1 D - Category 3 D - Category 4 - Category 1 - Category 2	
	En	glish (GB)	Saudi Arabia	16/17	
L					

Code : 000001202285	Date of issue/Date of revision	: 11 June 2024
SIGMA ECOFLEET 530 REDBROWN		

## **SECTION 16: Other information**

EXPOSURE - Category 3

<u>History</u>	
Date of issue/ Date of revision	: 11 June 2024
Date of previous issue	: 29 April 2024
Prepared by	: EHS
Version	: 1.01

#### <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.

English (GB)	Saudi Arabia	17/17