# SAFETY DATA SHEET

Date of issue/Date of revision

: 25 November 2022 Version : 23



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

1.1 Product identifier	
Product name	: SIGMA ECOFLEET 530 REDBROWN
Product code	: 00146095
Product type	: Liquid.
Other means of identification	on de la companya de
Not available.	
1.2 Relevant identified uses of	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.; 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
PPG Cameroun	
BP 1028, Douala Cameroon	
Tel: 00237 33 37 83 47	
Fax: 00237 33 37 88 98	
e-mail address of person	: PS.ACEMEA@ppg.com
responsible for this SDS	· · · · · · · · · · · · · · · · · · ·
1.4 Emergency telephone number	: ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00237 33 37 83 47

## **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

	No. 1907/2006 (REACH), Annex II
Code : 00146095	Date of issue/Date of revision : 25 November 202
SIGMA ECOFLEET 530 REDE	ROWN
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	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	<ul> <li>Copper 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	<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 vPvE
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Date of issue/Date of revision

#### : 25 November 2022

# SIGMA ECOFLEET 530 REDBROWN

: 00146095

Code

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øícopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10	[1] [2]
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 Index: 601-022-00-9	≥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	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		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	
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs)	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
	<u>.</u>	English	(GB) Car	neroon	3/18

Code : 0014609		Da	ate of issue/Date of revisi	on : 25 Novemb	per 2022
SIGMA ECOFLEET 530 I	position/informat	ion on i	aradiants		
	Index: 601-023-00-4		Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
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]
lead monoxide	EC: 215-267-0 CAS: 1317-36-8 Index: 082-001-00-6	≤0.10	Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l Repr. 2, H361f: C $\geq$ 2.5% STOT RE 2, H373: C $\geq$ 0.5% M [Acute] = 10 M [Chronic] = 1	[1] [2]
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	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]
			See Section 16 for the full text of the H statements declared above.		

#### See Section 16 for 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.

Туре

[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.

English (GB)

Code : 00146095 SIGMA ECOFLEET 530 REDBROWN Date of issue/Date of revision

: 25 November 2022

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

SUB codes represent substances without registered CAS Numbers.

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

#### 4.1 Description of first aid measures

an Booonprion of morala n	
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	: 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 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 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 : 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. : No specific treatment. **Specific treatments**

English (GB)	Cameroon
--------------	----------

## **SECTION 5: Firefighting measures**

: 00146095

SIGMA ECOFLEET 530 REDBROWN

Code

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	: 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 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,

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II			
Code : 00146095	Date of issue/Date of revision : 25 November 2022		
SIGMA ECOFLEET 530 R	EDBROWN		
<b>SECTION 6: Accid</b>	lental 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 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. 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.

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Code : 00146095 SIGMA ECOFLEET 530 REDBROWN Date of issue/Date of revision

### **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**

	ent name	Exposure limit values			
dicopper oxide		Ministry of Labor (France, 12/2021). [copper (fume)] TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume			
rosin		<b>Ministry of Labor (France, 12/2021).</b> TWA: 0.1 mg/m <sup>3</sup> , (expressed as formaldehyde) 8 hours.			
xylene		Ministry of Labor (France, 12/2021). [xylenes, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation			
		STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 221 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation			
5-methylhexan-2-one		Ministry of Labor (France, 12/2021). Absorbed through skin. STEL: 475 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 95 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation			
ethylbenzene		Ministry of Labor (France, 12/2021). Absorbed through skin. STEL: 442 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 88.4 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation			
lead monoxide		<b>Ministry of Labor (France, 12/2021). [lead and its compounds]</b> TWA: 0.1 mg/m <sup>3</sup> , (as Pb) 8 hours.			
Recommended monitoring procedures	Standard EN 689 by inhalation to o strategy) Europe application and u biological agents requirements for agents) Referer	Id be made to monitoring standards, such as the following: European 9 (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 s) European Standard EN 482 (Workplace atmospheres - General r the performance of procedures for the measurement of chemical nce to national guidance documents for methods for the determination bstances will also be required.			
.2 Exposure controls					
.2 Exposure controls Appropriate engineering controls	other engineerin recommended o	lequate ventilation. Use process enclosures, local exhaust ventilation o g controls to keep worker exposure to airborne contaminants below any or statutory limits. The engineering controls also need to keep gas, concentrations below any lower explosive limits. Use explosion-proof ment.			
Appropriate engineering	other engineerin recommended o vapour or dust c ventilation equip	g controls to keep worker exposure to airborne contaminants below any or statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof			
Appropriate engineering controls	other engineerin recommended o vapour or dust c ventilation equip <b>tres</b> : Wash hands, for eating, smoking Appropriate tech Contaminated w contaminated clo	g controls to keep worker exposure to airborne contaminants below any or statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof			
Appropriate engineering controls ndividual protection measu	other engineerin recommended o vapour or dust c ventilation equip <b>tres</b> : Wash hands, for eating, smoking Appropriate tech Contaminated w contaminated clo showers are close	ing controls to keep worker exposure to airborne contaminants below any or statutory limits. The engineering controls also need to keep gas, concentrations below any lower explosive limits. Use explosion-proof ment. The engineering controls also need to keep gas, concentrations below any lower explosive limits. Use explosion-proof ment. The engineer explosive limits is the explosion products, before and using the lavatory and at the end of the working period. Includes should be used to remove potentially contaminated clothing. Fork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety			

Date of issue/Date of revision

# SIGMA ECOFLEET 530 REDBROWN

		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	1	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.
Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
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

	English	(GB)	Came	roon 9/18
	5-methylhexan-2-one	400	752	EU A.15
Auto-ignition temperature	: Ingredient name	°C	°F	Method
Flash point	: Closed cup: 30°C			
Upper/lower flammability or explosive limits	: Greatest known range: L	.ower: 1.8% Upp	er: 9% (5-me	ethylhexan-2-one)
Flammability	: Not available.			
Initial boiling point and boiling range	: >37.78°C			
Melting point/freezing point	,	•		C (-101.2°F) This is based on . Weighted average: -86.55°C
Odour threshold	: Not available.			
Odour	: Aromatic.			
Colour	: Brownish-red.			
Physical state	: Liquid.			
<u>Appearance</u>				

Conforms to Regulation (EC) N	lo. 19	07/2006 (REACH), A						
Code : 00146095			Date o	f issue/l	Date of revision	on	: 25 N	lovember 202
SIGMA ECOFLEET 530 REDBR	NOWN							
SECTION 9: Physical	and	chemical prop	perties					
Decomposition temperature	:	Stable under recomr	nended s	torage a	and handling co	onditions	(see Sec	ction 7).
рН	:	Not applicable. insolu		ater.				
Viscosity	:	Kinematic (40°C): >2	21 mm²/s					
Solubility(ies)		Desult						]
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octane water	ol/ :	Not applicable.						
Vapour pressure	:	In smaller to smaller	Vapo	ur Pres	sure at 20°C	Vapo	our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.3	1.2				
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (et	hylbenz	ene) Weighteo	d average	e: 0.65co	mpared with
Relative density	:	1.94						
Vapour density		Highest known value 3.78 (Air = 1)	e: 3.9 (Aii	-= 1) (5	-methylhexan-	2-one).	Weighteo	d average:
Explosive properties	:	The product itself is vapour or dust with a			the formation	of an exp	olosible r	nixture of
Oxidising properties	:	Product does not pre	esent an o	oxidizing	hazard.			
Particle characteristics								
Median particle size		Not applicable.						
9.2 Other information								
No additional information.								
SECTION 10: Stability	and	d reactivity						
•		specific test data rela	ated to rea	activity a	vailable for this	s product	or its in	gredients.
I0.2 Chemical stability	: The	e product is stable.						
10.3 Possibility of nazardous reactions	: Un	der normal conditions	of storaç	je and u	se, hazardous	reactions	s will not	occur.
0.4 Conditions to avoid	: Wh	nen exposed to high to	emperatu	res may	produce haza	rdous de	composi <sup>.</sup>	tion products.
	Ret	fer to protective meas	sures liste	d in sec	tions 7 and 8.			
0.5 Incompatible materials		ep away from the follo dising agents, strong				g exother	mic read	tions:
10.6 Hazardous decomposition products	car	pending on conditions bon oxides nitrogen des						

Code : 00146095 SIGMA ECOFLEET 530 REDBROWN Date of issue/Date of revision

### **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	_
Aylone	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	i tut	0.10 mg/i	Thouse
	LD50 Dermal	Rabbit	3.9 g/kg	_
	LD50 Oral	Rat	567 mg/kg	_
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
ottyloonzono	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
coppoi	mists	i tut	- o. r r mg/r	Thouse
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists	i tat	2 0.00 mg/l	4 Hours
octadecanoic acid and	inioto			
1,3-phenylenedimethanamine				
octhilinone (ISO)	LC50 Inhalation Dusts and	Rat	0.27 mg/l	4 hours
	mists		0.27 mg/i	ritouro
	LD50 Dermal	Rabbit	311 mg/kg	_
	LD50 Oral	Rat	125 mg/kg	
		T CIL	120 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		•	•		

Conclusion/Summary	
Skin	: There are no
Eyes	: There are no
Respiratory	: There are no

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
octhilinone (ISO)	skin	Mouse	Sensitising
Conclusion/Summary			

#### Skin

: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Mutagenicity

Conforms to Regulation (EC)	No. 1907/2006	6 (REACH), A	Annex II				
Code : 00146095			Date of iss	sue/Date o	of revision	: 25 Nov	/ember 2022
SIGMA ECOFLEET 530 REDB	ROWN						
SECTION 11: Toxicol	ogical info	ormation	l				
Conclusion/Summary	: There are r	no data availa	able on the mi	xture itself			
Carcinogenicity							
Conclusion/Summary	: There are r	no data availa	able on the mi	xture itself			
Reproductive toxicity		[					
Product/ingredient name	Maternal toxicity	Fertility	Developmer toxin	ntal	Species	Dose	Exposure
5-methylhexan-2-one	-	-	Equivocal	Rabb	it	Inhalation: 1250 ppm	-
Conclusion/Summary	: There are r	no data availa	able on the mi	xture itself			
Teratogenicity							
<b>Conclusion/Summary</b>	: There are r	no data availa	able on the mi	xture itself	:		
Specific target organ toxicit	<u>y (single expo</u>	<u>osure)</u>					
Product/ingr	edient name		Catego	-	oute of xposure	Target	organs
xylene 4,5-dichloro-2-octyl-2H-isothia	azol-3-one		Categor Categor			Respiratory tra Respiratory tra	
Specific target organ toxicity	<u>y (repeated ex</u>	<u>(posure)</u>					
Product/ingr	edient name		Catego	-	Route of exposure	Target	organs
ethylbenzene lead monoxide			Categor Categor			hearing organ -	S
Aspiration hazard			1	ł			
Product/ii	ngredient nam	ne				Result	
xylene ethylbenzene	<u> </u>			ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1			
Information on likely routes of exposure	: Not availab	le.	I				
Potential acute health effect	<u>s</u>						
Inhalation	: Harmful if i	nhaled.					
Ingestion	: Harmful if s	swallowed.					
Skin contact	: Causes ski	in irritation.	Defatting to the	e skin. Ma	iy cause an	allergic skin rea	ction.
Eye contact	: Causes ser	rious eye dar	nage.				
Symptoms related to the phy	<u>ysical, chemic</u>	cal and toxic	cological cha	<u>racteristic</u>	<u>:s</u>		
Inhalation				ollowing:			
Ingestion	stomach pa reduced foe increase in	ains	y include the fo	ollowing:			
		motoms may	include the f	ollowing:			
Skin contact	: Adverse sy pain or irrita redness dryness cracking blistering m reduced for increase in	ation nay occur					

Date of issue/Date of revision

# **SECTION 11: Toxicological information**

: 00146095

SIGMA ECOFLEET 530 REDBROWN

Code

	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>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**

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
	English (GB)	Cameroon	13/18

	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
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 day 79 % - Readily - 10 day		-
Conclusion/Summary	: There are no o	data available on the mixtu	re itself.	
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability
xylene 5-methylhexan-2-one ethylbenzene				Readily Readily Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>ro</b> sin	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

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.

Code : 00146095 SIGMA ECOFLEET 530 REDBROWN Date of issue/Date of revision

### **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			
Packaging				
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.			

# **SECTION 14: Transport information**

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

#### Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.

English (GB)	Cameroon	15/18
--------------	----------	-------

Date of issue/Date of revision : 25 November 2022
nation
nation
zardous substance mark may appear if required by other transportation
t <b>within user's premises:</b> always transport in closed containers that are d secure. Ensure that persons transporting the product know what to do in the n accident or spillage.
able.
r

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

#### Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
Toxic to reproduction	lead monoxide	Recommended	ED/49/2014	11/10/2016

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.

Ozone depleting substances (1005/2009/EU)

Not listed.

Social Security Code, Articles L 461-1 to L 461-7	:	Rosin xylene 5-methylhexan-2-one ethylbenzene lead monoxide Surveillance médicale spéciale selon l'arrêté du 11 jui	RG 65, RG 66 RG 4bis, RG 84 RG 84 RG 84 RG 1	[1] [2]
		<ul> <li>[1] Benzène et homologues</li> <li>[2] Plomb et ses composés</li> <li>Pour les applications des peintures et vernis par pulvé</li> </ul>		
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities we surveillance: not applicable	hich require reinfo	rced medical
References	:	Reinforced medical surveillance ; Decree no. 2001-97 of 1 February 2001 establishing specific rules for the prevention of risks from carcinogens, mutagens and reprotoxics and amending the Labour code ; Decree no. 2003-1254 of 23 December 2003 relating to prevention of chemical risks and amending the Labour code ; Decree no. 2004-187 of 26 February 2004 on the placing on the market of biocidal products ; Decree no. 88-1231 of 29/12/1988 relating to poisonous preparations and substances. ; Decree no. 95-517 of 15 May 1997, relating to the classification of dangerous waste. ; Labour code article: R231-53 ; Labour code: Occupational air (ventilation, air purification): Art. R 232-5 to R 232-5-14 ; Labour code: Prevention of chemical risk: Art.R231-51 and R 231-54 to R 231-54-9 ; Labour code: Prevention of fires: Art.R232-12-13 to R 232-12-29 and R 233-30 ; Labour code: provisions applicable to women: Art. L 234-3 to L 236-6 ;		
		English (GB) C	ameroon	16/18

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II						
Code : 00146095		Date of issue/D	ate of revision	: 25 November 2022		
SIGMA ECOFLEET 530 REDBROWN						
SECTION 15: Regulation	SECTION 15: Regulatory information					
15.2 Chemical safety	<ul> <li>Labour code: provisions applicable to young workers: Art. L 234-3 to L 236-6; Art: R234-16 ; Labour code: Sanitary installations: Art. R 232-2 à R 232-2-7 ; Law 76-663 of 19 July 1976 amending and implementing decree of 21 September 1977 relating to classified installations for the protection of the environment ; Tables of anticipated professional diseases according to article R461-3 of the labour code</li> <li>No Chemical Safety Assessment has been carried out.</li> </ul>					
assessment SECTION 16: Other information						
		· · · · · · · ·				
Indicates information that h	• • •					
Abbreviations and acronyms	: ATE = Acute Toxicity Es CLP = Classification, La 1272/2008] DNEL = Derived No Effe EUH statement = CLP-s PNEC = Predicted No E RRN = REACH Registra	belling and Packa ect Level specific Hazard sta iffect Concentration	tement	ition (EC) No.		
Full text of abbreviated H statements	<ul> <li>H225 Highly flamma</li> <li>H226 Flammable lid</li> <li>H301 Toxic if swalle</li> <li>H302 Harmful if swal</li> <li>H304 May be fatal if</li> <li>H311 Toxic in conta</li> <li>H312 Harmful in col</li> <li>H312 Harmful in col</li> <li>H314 Causes sever</li> <li>H315 Causes skin i</li> <li>H317 May cause and</li> <li>H318 Causes seriou</li> <li>H319 Causes seriou</li> <li>H330 Fatal if inhaled</li> <li>H332 Harmful if inhaled</li> <li>H335 May cause ref</li> <li>H360Df May damage</li> <li>H361d Suspected of</li> <li>H373 May cause dat</li> <li>H400 Very toxic to a</li> <li>H410 Very toxic to a</li> <li>H412 Harmful to aq</li> <li>H413 May cause to to</li> </ul>	able liquid and vap quid and vapour. owed. allowed. f swallowed and er act with skin. ntact with skin. re skin burns and e rritation. n allergic skin react us eye damage. us eye damage. us eye irritation. d. aled. spiratory irritation. the unborn child. S damaging the unb amage to organs th aquatic life. aquatic life with lon uatic life with long ng lasting harmful he respiratory track	nters airways. eye damage. ion. Suspected of damaging for orn child. irough prolonged or repo g lasting effects. lasting effects. effects to aquatic life.			
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. 3 Repr. 1A Repr. 2 Skin Corr. 1 Skin Sens. 1 Skin Sens. 1A STOT RE 2	ACUTE TOXIC ACUTE TOXIC SHORT-TERM LONG-TERM LONG-TERM ASPIRATION SERIOUS EYI SERIOUS EYI SERIOUS EYI FLAMMABLE FLAMMABLE REPRODUCT REPRODUCT SKIN CORRO SKIN SENSIT SKIN SENSIT	CITY - Category 2 CITY - Category 3 CITY - Category 4 (ACUTE) AQUATIC H (CHRONIC) AQUATIC (CHRONIC) AQUATIC (CHRONIC) AQUATIC (CHRONIC) AQUATIC (CHRONIC) AQUATIC HAZARD - Category 1 E DAMAGE/EYE IRRIT/ LIQUIDS - Category 2 LIQUIDS - Category 3 IVE TOXICITY - Categor IVE TOXICITY - Categor SION/IRRITATION - Category 1 ISATION - Category 1 ISATION - Category 1A RGET ORGAN TOXICI	HAZARD - Category 1 HAZARD - Category 3 HAZARD - Category 4 ATION - Category 1 ATION - Category 2 ory 1A ory 2 ategory 1 ategory 2		
	Enc	glish (GB)	Cameroon	17/18		

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II						
Code : 00146095		Date of issue/Date of revision	: 25 November 2022			
SIGMA ECOFLEET 530 REDBROWN						
SECTION 16: Other information						
	STOT SE 3	EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	(ICITY - SINGLE			
<u>History</u>						
Date of issue/ Date of revision	: 25 November 2022					
Date of previous issue	: 13 June 2022					
Prepared by	: EHS					
Version	: 23					
<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.