SAFETY DATA SHEET

Date of issue/Date of revision

: 25 November 2022 Version : 25



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

1.1 Product identifier	
Product name	: SIGMA ECOFLEET 530 BLACK
Product code	: 00180438
Product type	: Liquid.
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 Sigma Coatings PTY 9 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800	the safety data sheet
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com

1.4 Emergency telephone : +27 51 444 2134 number

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 : 00180438	No. 1907/2006 (REACH), Annex II Date of issue/Date of revision : 25 November 2023
SIGMA ECOFLEET 530 BLAC	
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 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.
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	 Effcopper oxide rosin 5-methylhexan-2-one 4,5-dichloro-2-octyl-2H-isothiazol-3-one 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene Cashew, nutshell liq. octhilinone (ISO)
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>nents</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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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
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]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[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]
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 - ≤3.4	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 #: 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]
	·	English	(GB) South	Africa	3/17

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SIGMA ECOFLEET 530 BLACK SECTION 3: Composition/information on ingredients					
	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.		

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

M Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

English (GB)

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	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health e	ffects
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.
<u>Over-exposure signs/sy</u>	mptoms
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 imm	ediate 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.
Constitution transfer	No aposific treatment

Specific treatments : No specific treatment.

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SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture

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

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SECTION 6: Accid	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 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.

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

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

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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	Exp	osure limit values	
dicopper oxide		ACGIH TLV (United States		
xylene		TWA: 0.2 mg/m ³ 8 hours. EU OEL (Europe, 1/2022). through skin. STEL: 442 mg/m ³ 15 minu	[xylene, mixed isomers] Absor	bed
		STEL: 100 ppm 15 minute TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.	S.	
rosin		Inhalation sensitiser.	s, 1/2022). [resin acids] Skin sei tal Resin acids) 8 hours. Form: In	
5-methylhexan-2-one		EU OEL (Europe, 1/2022). TWA: 95 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.		
ethylbenzene		EU OEL (Europe, 1/2022). STEL: 884 mg/m ³ 15 minute STEL: 200 ppm 15 minute TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.	ites. is.	
1,3-bis[12-hydroxy-octadecamid benzene lead monoxide	e-N-methylene]-	TWA: 0.15 mg/m ³ 8 hours	e fraction) [inorganic lead and its compou (Europe, 12/2017). [lead and its	-
Recommended monitoring : procedures	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	 Workplace atmospheres - hemical agents for comparise ean Standard EN 14042 (Wo use of procedures for the ass European Standard EN 48 the performance of procedu 	ndards, such as the following: Eu Guidance for the assessment of e on with limit values and measurer rkplace atmospheres - Guide for t essment of exposure to chemical 2 (Workplace atmospheres - Ger res for the measurement of chem uments for methods for the detern l.	exposure ment the and heral iical
controls	other engineering recommended of vapour or dust co ventilation equipr	g controls to keep worker exp r statutory limits. The engine oncentrations below any lowe	ess enclosures, local exhaust ver posure to airborne contaminants b ering controls also need to keep o er explosive limits. Use explosion	pelow any gas,
Individual protection measures	È.			
Hygiene measures :	eating, smoking a Appropriate techn Contaminated we contaminated clo	and using the lavatory and a niques should be used to rer ork clothing should not be all	fter handling chemical products, to the end of the working period. nove potentially contaminated clo bwed out of the workplace. Wash to that eyewash stations and safet	thing. า
		English (GB)	South Africa	8/17

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SECTION 8: Exposure controls/personal protection

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 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)	South Africa 9/17
Auto-ignition temperature		
Flash point	: Closed cup: 29.7°C	
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.8% l	Jpper: 9% (5-methylhexan-2-one)
Flammability	: Not available.	
Initial boiling point and boiling range	: >37.78°C	
Melting point/freezing point	, , , ,	nperature: -74°C (-101.2°F) This is based on thylhexan-2-one. Weighted average: -87.69°C
Odour threshold	: Not available.	
Odour	: Aromatic.	
Colour	: Black.	
Physical state	: Liquid.	
<u>Appearance</u>		

onforms to Regulation (EC) No	o. 19	07/2006 (REACH), A	nnex II					
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SECTION 9: Physical a	nd	chemical pro	perties					
	:	Ingredient name		°C	٥	`F	Method	
		5-methylhexan-2-one		400	75	52	EU A.15	
Decomposition temperature	:	Stable under recomm	mended st	orage a	and handlir	ng conditio	ns (see Seo	ction 7).
pH	:	Not applicable. insol	uble in wa	ter.		-	·	,
Viscosity	:	Kinematic (40°C): >2	21 mm²/s					
Solubility(ies)	1							
Media		Result						
<mark>⊭</mark> old water		Not soluble						
Partition coefficient: n-octanol water	/:	Not applicable.						
Vapour pressure	:	In muching the second	Vapour Pressure at 20°C		°C V	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Metho	d mm Hg	ı kPa	Method
		ethylbenzene	9.3	1.2				
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (eth	lylbenz	ene) Weig	ghted aver	age: 0.67co	mpared with
Relative density	:	1.78						
Vapour density	- 1	Highest known value 3.77 (Air = 1)	e: 3.9 (Air	= 1) (5	-methylhe	xan-2-one). Weighteo	d average:
Explosive properties	:	The product itself is vapour or dust with a			the forma	ation of an	explosible r	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
Particle characteristics								

9.2 Other information

No additional information.

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dícopper 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 ³	4 hours
	mists		5	
	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat	>5000 mg/kg	_
xylene	LD50 Dermal	Rabbit	1.7 g/kg	_
	LD50 Oral	Rat	4.3 g/kg	_
rosin	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat	7600 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		e	
	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
ooppol	mists	, lat	o	1 nouro
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists	i tut	- 0.00 mg/i	Thouse
octadecanoic acid and				
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	-
		1.01	120 mg/ng	

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	•	•	•		

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

: 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
øcthilinone (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

English (GB)

	C) NO. 1907/200	6 (REACH), A	Annex II				
ode : 00180438			Date of iss	sue/E	Date of revision	: 25 Nov	vember 2022
IGMA ECOFLEET 530 BLA	4CK						
SECTION 11: Toxic	ological inf	formation	ı				
Conclusion/Summary	: There are	no data availa	able on the mi	ixture	e itself.		
Carcinogenicity							
Conclusion/Summary Reproductive toxicity	: I here are	no data availa	able on the mi	ixture	e itself.		
-		-					_
Product/ingredient nam	e Maternal toxicity	Fertility	Developmer toxin		Species	Dose	Exposure
5-methylhexan-2-one	-	-	Equivocal		Rabbit	Inhalation: 1250 ppm	-
Conclusion/Summary	: There are	no data availa	able on the mi	ixture	e itself.		
Teratogenicity							
Conclusion/Summary			able on the mi	ixture	e itself.		
Specific target organ toxi	<u>city (single exp</u>	<u>osure)</u>	i			1	
Product/in	ngredient name		Catego	ory	Route of exposure	Target o	organs
xylene 4,5-dichloro-2-octyl-2H-iso	thiazol-3-one		Category Category		-	Respiratory tra Respiratory tra	
Specific target organ toxi	city (repeated e	<u>exposure)</u>					
Product/in	ngredient name		Catego	ory	Route of exposure	Target	organs
ethylbenzene lead monoxide			Category Category		-	hearing organ -	S
Aspiration hazard							
Produc	ct/ingredient na	mo				Result	
1	, angioaione na					Result	
xylene ethylbenzene					RATION HAZARD RATION HAZARD	- Category 1	
xylene	: Not availa				RATION HAZARD	- Category 1	
xylene ethylbenzene Information on likely	: Not availa				RATION HAZARD	- Category 1	
xylene ethylbenzene Information on likely routes of exposure	: Not availa	ble.			RATION HAZARD	- Category 1	
xylene ethylbenzene Information on likely routes of exposure Potential acute health effe	: Not availa	ble. inhaled.			RATION HAZARD	- Category 1	
xylene ethylbenzene Information on likely routes of exposure Potential acute health effe Inhalation Ingestion Skin contact	: Not availa ects : Harmful if : Harmful if : Causes sł	ble. inhaled. swallowed. kin irritation. [A Defatting to the	ASPIF	RATION HAZARD	- Category 1 - Category 1	ction.
xylene ethylbenzene Information on likely routes of exposure Potential acute health effe Inhalation Ingestion Skin contact Eye contact	: Not availa ects : Harmful if : Harmful if : Causes st : Causes st	ble. inhaled. swallowed. kin irritation. I erious eye dar	Defatting to the mage.	SPIF	RATION HAZARD RATION HAZARD n. May cause an	- Category 1 - Category 1	ction.
xylene ethylbenzene Information on likely routes of exposure Potential acute health effe Inhalation Ingestion Skin contact Eye contact Symptoms related to the	: Not availa ects : Harmful if : Harmful if : Causes sk : Causes se physical, chemi	ble. inhaled. swallowed. kin irritation. I erious eye dar ical and toxic	Defatting to the nage.	e ski	RATION HAZARD RATION HAZARD n. May cause an eristics	- Category 1 - Category 1	ction.
xylene ethylbenzene Information on likely routes of exposure Potential acute health effe Inhalation Ingestion Skin contact Eye contact	: Not availa ects : Harmful if : Harmful if : Causes sk : Causes se physical, chemi : Adverse s reduced fo increase in	ble. inhaled. swallowed. kin irritation. I erious eye dar ical and toxic	Defatting to the mage. cological char y include the fo	e ski	RATION HAZARD RATION HAZARD n. May cause an eristics	- Category 1 - Category 1	ction.
xylene ethylbenzene Information on likely routes of exposure Potential acute health effe Inhalation Ingestion Skin contact Eye contact Symptoms related to the	 Not availa ects Harmful if Harmful if Causes sl Causes se physical, chemi Adverse s reduced for increase in skeletal m Adverse s stomach p reduced for increase in 	ble. inhaled. swallowed. kin irritation. I erious eye dar ical and toxic ymptoms may betal weight n foetal deaths ialformations ymptoms may	Defatting to the mage. cological char y include the fo s y include the fo	e skir racte	RATION HAZARD RATION HAZARD n. May cause an <u>eristics</u> <i>v</i> ing:	- Category 1 - Category 1	ction.
xylene ethylbenzene Information on likely routes of exposure Potential acute health effe Inhalation Ingestion Skin contact Eye contact Symptoms related to the Inhalation	 Not availa Ects Harmful if Harmful if Causes sle Causes sle Causes se physical, chemi Adverse s reduced for increase in skeletal m Adverse s stomach p reduced for increase in skeletal m Adverse s stomach p reduced for increase in skeletal m Adverse s pain or irri redness dryness cracking blistering n reduced for 	ble. inhaled. swallowed. kin irritation. I erious eye dar ical and toxic ymptoms may betal weight n foetal deaths pains betal weight n foetal deaths	Defatting to the mage. cological char y include the for s y include the for s y include the for	e skil racte ollow	RATION HAZARD RATION HAZARD n. May cause an eristics <i>v</i> ing:	- Category 1 - Category 1	ction.

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SECTION 11: Toxicological information

	5
	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
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: 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)	South Africa	13/17

SECTION 12: Ecological information

	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		
-methylhexan-2-one ethylbenzene	OECD 301D -	67 % - Readily - 28 day 79 % - Readily - 10 day		-		
Conclusion/Summary : There are no data available on the mixture 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
x ylene	3.12	7.4 to 18.5	low
rosin	1.9 to 7.7	-	high
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.

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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	 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.		

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 IMDG	: (D/E) : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
INDO	. The matthe pollutant mark is not required when transported in sizes of 25 L of 25 kg.

English (GB)	South Africa	15/17
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Conforms to Regulation (EC	C) No. 1907/2006 (REACH), Annex II
Code : 00180438	Date of issue/Date of revision : 25 November 2022
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SECTION 14: Trans	port information
IATA : The env regulation	rironmentally hazardous substance mark may appear if required by other transportation ons.
14.6 Special precautions fo user	r : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	: Not applicable.

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.

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	CLP = C 1272/20 DNEL = EUH sta PNEC =	 Acute Toxicity Estimate Classification, Labelling and Packaging Regulation [Regulation (EC) No. /2008] Derived No Effect Level statement = CLP-specific Hazard statement C = Predicted No Effect Concentration = REACH Registration Number 			
Full text of abbreviated H statements	 №225 H226 H301 H302 H304 H311 H312 H314 H315 H317 	Highly flammable liquid and vapor Flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. May be fatal if swallowed and ent Toxic in contact with skin. Harmful in contact with skin. Causes severe skin burns and ey Causes skin irritation. May cause an allergic skin reaction	ers airways. /e damage.		
		English (GB)	South Africa	16/17	

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SIGMA ECOFLEET 530 BLAC	Κ
SECTION 16: Other information	
	 H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H360Df May damage the unborn child. Suspected of damaging fertility. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	:Acute Tox. 2 Acute Tox. 3 Acute Tox. 3 Acute Tox. 4AcUTE TOXICITY - Category 2
<u>History</u> Date of issue/ Date of	: 25 November 2022
revision	
Date of previous issue	: 22 May 2022
Prepared by	: EHS
Version Disclaimer	: 25

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