SAFETY DATA SHEET

Date of issue/Date of revision

United Arab Emirates

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

: 15 March 2024

Version

: 1.01

_	
1.1 Product identifier	
Product name	: SIGMA ECOFLEET 530 BROWN
Product code	: 000001201504
Other means of identification 00476149	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 of	f the safety data sheet
Sigma Paint Saudi Arabia Lto PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	1.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> 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 : 000001201504	Date of issue/Date of revision : 15 March	ו 2024
SIGMA ECOFLEET 530 BROV	l	
SECTION 2: Hazards	dentification	
Hazard pictograms		
	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 a heat, hot surfaces, sparks, open flames and other ignition sources. No smokin release to the environment.	
Response	Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. contact lenses, if present and easy to do. Continue rinsing.	Remove
Storage	Not applicable.	
Disposal	Dispose of contents and container in accordance with all local, regional, nation international regulations. P280, P210, P273, P391, P305 + P351 + P338, P501	nal and
Hazardous ingredients	dicopper 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>its</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 of	or a vPvI
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

3.2 WIXtures	iviixiure				т — —
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) United Arab Er	nirates	3/18

Code : 0000012 SIGMA ECOFLEET 530		Da	Date of issue/Date of revision : 15 March 2024		
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	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]

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.

the full text of the H statements declared

above.

[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) United Arab Emirates 4/18
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.
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.
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.
4.1 Description of firs	aid measures

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SECTION 4: First aid	d 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 of self-contained breathing apparatus. It may be dangerous to the person providing aid t give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with wate before removing it, or wear gloves.	
4.2 Most important symptor Potential acute health effe	ns and effects, both acute and delayed cts	
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/symp	<u>ptoms</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 immed	iate medical attention and special treatment needed	
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 	
Specific treatments	: No specific treatment.	

SECTION 5:	Firefighting	measures
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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

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

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SECTION 5: Firefighting measures

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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

		English (GB) United Arab Emirates 6/18
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.
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.
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
6.3 Methods and material for	со	ntainment and cleaning up
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.
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".
6.1 Personal precautions, pro For non-emergency personnel		ctive equipment and emergency procedures 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.
6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures

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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	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [copper fume] TWA: 0.2 mg/m ³ 8 hours. Form: fumes ACGIH TLV (United States, 1/2023). [Copper Fume] TWA: 0.2 mg/m ³ 8 hours. Form: Fume				
zinc oxide	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m ³ 8 hours. Form: fumes STEL: 10 mg/m ³ 15 minutes. Form: fumes Abu Dhabi - OSHAD - Occupational air quality threshold limit				
	English (GB) United Arab Emirates 7/18				

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	 values (United Arab Emirates, 7/2016). STEL: 10 mg/m³ 15 minutes. Form: measured of the aerosol and fume TWA: 2 mg/m³ 8 hours. Form: measured as the aerosol and fume ACGIH TLV (United States, 1/2023). Notes: see Appendix C, paragraph C. ACGIH 2003 STEL: 10 mg/m³ 15 minutes. Form: Respirate TWA: 2 mg/m³ 8 hours. Form: Respirate frame 	respirable fraction of Respirable fraction; Adoption ble fraction
rosin	Abu Dhabi - OSHAD - Occupational air qua values (United Arab Emirates, 7/2016). Skir sensitiser. ACGIH TLV (United States, 1/2023). [resin a acids] Skin sensitiser. Inhalation sensitiser TWA: 0.001 mg/m ³ , (as total Resin acids) 8 h fraction	n sensitiser. Inhalation ncids as total Resin r.
xylene	Abu Dhabi - OSHAD - Occupational air qua values (United Arab Emirates, 7/2016). [xyla isomers)] STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Reg Protection of Air from Pollution (United Ara [xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. STEL: 651 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). [p-xylen containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.	ene (o, m & p gulation Concerning ab Emirates, 5/2006).
5-methylhexan-2-one	Abu Dhabi - OSHAD - Occupational air qua values (United Arab Emirates, 7/2016). TWA: 234 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Reg Protection of Air from Pollution (United Ara TWA: 234 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). TWA: 93 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 234 mg/m ³ 15 minutes.	Julation Concerning
diiron trioxide Talc , not containing asbestiform fibres	Abu Dhabi - OSHAD - Occupational air qua values (United Arab Emirates, 7/2016). TWA: 5 mg/m ³ 8 hours. Form: measured as the aerosol Cabinet Decree (12) of 2006 Regarding Reg Protection of Air from Pollution (United Ara TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). Notes: Substances of Variable Composition. Re Appendix C, paragraph C. TWA: 5 mg/m ³ 8 hours. Form: Respirable fra Abu Dhabi - OSHAD - Occupational air qua	respirable fraction of gulation Concerning ab Emirates, 5/2006). Refers to Appendix B spirable fraction; see
1	English (GB) United Arab Emirates	8/18

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		values (United Arab Emirates, 7/2016). TWA: 2 mg/m ³ 8 hours. Form: measured a the aerosol Cabinet Decree (12) of 2006 Regarding R Protection of Air from Pollution (United A TWA: 2 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable	egulation Concerning
ethylbenzene		 Abu Dhabi - OSHAD - Occupational air quivalues (United Arab Emirates, 7/2016). STEL: 543 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding R Protection of Air from Pollution (United A STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 400 ppm 8 hours. STEL: 543 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). Ototo Substances for which there is a Biological Indices 2002 Adoption. TWA: 20 ppm 8 hours. 	egulation Concerning arab Emirates, 5/2006). oxicant. Notes:
copper oxide		Abu Dhabi - OSHAD - Occupational air qu values (United Arab Emirates, 7/2016). [c TWA: 0.2 mg/m ³ 8 hours. Form: fumes ACGIH TLV (United States, 1/2023). [Cop TWA: 0.2 mg/m ³ 8 hours. Form: Fume	opper fume]
Recommended monitoring : procedures	Standard EN 689 by inhalation to o strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as t 9 (Workplace atmospheres - Guidance for the chemical agents for comparison with limit valu ean Standard EN 14042 (Workplace atmosph use of procedures for the assessment of expo b) European Standard EN 482 (Workplace at the performance of procedures for the meas nee to national guidance documents for metho postances will also be required.	e assessment of exposure es and measurement eres - Guide for the sure to chemical and mospheres - General urement of chemical
8.2 Exposure controls			
Appropriate engineering : controls	other engineering recommended o	equate ventilation. Use process enclosures, g controls to keep worker exposure to airborn r statutory limits. The engineering controls als oncentrations below any lower explosive limits ment.	e contaminants below any so need to keep gas,
Individual protection measures			
	eating, smoking Appropriate tech Contaminated we contaminated clo	earms and face thoroughly after handling che and using the lavatory and at the end of the w niques should be used to remove potentially ork clothing should not be allowed out of the w othing before reusing. Ensure that eyewash s se to the workstation location.	vorking period. contaminated clothing. vorkplace. Wash
Eye/face protection : <u>Skin protection</u> Hand protection :	Chemical splash	goggles and face shield.	

Conforms to Regulation (EC) No 2020/878	. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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	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 :	
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) Unite	d Arab Emir	ates 10/18		
Viscosity	: Kinematic (room tempera Kinematic (40°C): >21 m	,	/s			
рН	: Not applicable.					
Decomposition temperature	: Stable under recommend	ded storage and h	nandling cond	litions (see Section 7).		
	5-methylhexan-2-one	400	752	EU A.15		
Auto-ignition temperature	: Ingredient name	°C	°F	Method		
Flash point	: Closed cup: 28°C					
Upper/lower flammability or explosive limits	: Greatest known range: L	ower: 1.8% Uppe	er: 9% (5-me	thylhexan-2-one)		
Flammability	: Not available.					
Initial boiling point and boiling range	: >37.78°C					
Melting point/freezing point	data for the following ingl (-123.8°F)	May start to solidify at the following temperature: -74°C (-101.2°F) This is based on data for the following ingredient: 5-methylhexan-2-one. Weighted average: -86.55°C (-123.8°F)				
Odour threshold	: Not available.					
Odour	: Aromatic. [Strong]					
Colour	: Brown.					
Physical state	: Liquid.					
<u>Appearance</u>						

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SECTION 9: Physica	l and	chemical prop	perties					
Viscosity	:	60 - 100 s (ISO 6mn	n)					
Solubility(ies)	:	,	,					
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octa water	nol/ :	Not applicable.						
Vapour pressure	:	: Ingredient name	Vapour Pressure at 20°C		Vapour pressure at 50°C			
			mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2				
Evaporation rate	:	L Highest known value butyl acetate	e: 0.84 (eth	ylbenz	ene) Weighted	average	e: 0.65cor	npared with
Relative density	:	1.93						
Vapour density	:	Highest known value 3.78 (Air = 1)	e: 3.9 (Air	= 1) (5	-methylhexan-2	2-one). \	Neighted	average:
Explosive 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 pre	esent an o	xidizing	hazard.			
article characteristics								

9.2 Other information

No additional information.

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

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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		, C	
	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	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
5	LD50 Oral	Rat	4.3 g/kg	-
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		J	
	LD50 Dermal	Rabbit	3.9 g/kg	-
	LD50 Oral	Rat	567 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists		5	
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists		5	
octadecanoic acid and				
1,3-phenylenedimethanamine				
octhilinone (ISO)	LC50 Inhalation Dusts and	Rat	0.27 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	311 mg/kg	-
	LD50 Oral	Rat	125 mg/kg	-

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	-

Product/ing	redient name	Route of	Species	Result			
<u>Sensitisation</u>							
Respiratory	: There are no data available on the mixture itself.						
Eyes	: There are no data availa	able on the mixture i	itself.				
Skin	: There are no data available on the mixture itself.						
Conclusion/Summary							

		exposure				
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.					

5	There are no	o data	available	on the	mixture i	itself.
•	There are n	Juulu	available		mixture	10001

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SECTION 11: Toxicol	ogical in	formation	l				
Mutagenicity							
Conclusion/Summary	: There are	no data availa	able on the mixtur	e itself.			
Carcinogenicity							
Conclusion/Summary	: There are	no data availa	able on the mixtur	e itself.			
Reproductive toxicity			r				
Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposur	
5-methylhexan-2-one	-	-	Equivocal	Rabbit	Inhalation: 1250 ppm	-	
Conclusion/Summary	: There are	no data availa	able on the mixtur	e itself.			
Teratogenicity							
Conclusion/Summary	: There are	no data availa	able on the mixtur	e itself.			
Product/ing	edient name		Category	Route of exposure	Target	organs	
Information on likely	: Not availa	ble.					
routes of exposure	I Hot availa						
Potential acute health effect	<u>s</u>						
Inhalation	: Harmful if	inhaled.					
Ingestion	: Harmful if	swallowed.					
Skin contact	: Causes sl	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.					
Eye contact	: Causes se	erious eye dan	nage.				
Symptoms related to the ph	<u>ysical, chem</u>	ical and toxic	ological charact	<u>eristics</u>			
Inhalation	reduced for increase i	symptoms may oetal weight n foetal deaths nalformations	v include the follov	ving:			
Ingestion	: Adverse s stomach p reduced fe increase i	symptoms may	v include the follov	ving:			
Skin contact	pain or irri redness dryness cracking blistering reduced fo increase i		v include the follov	ving:			
Eye contact	: Adverse s pain watering redness	symptoms may	<i>i</i> include the follov	ving:			
Delayed and immediate effe	<u>cts as well a</u>	<u>s chronic effe</u>	ects from short a	nd long-term expo	<u>osure</u>		
Short term exposure							
Potential immediate	: Not availa	ıble.					
effects							
effects Potential delayed effects Long term exposure	: Not availa	ble.					

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Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: 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
	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
		<i>magna</i> - Neonate	
Reaction products of 12-hydroxyoctadecanoic acid	Acute LC50 >100 mg/l	Fish	96 hours
and octadecanoic acid and			
1,3-phenylenedimethanamine			
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SECTION 12: Ecological information

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 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
rosin	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 (K _{oc})	: 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).

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.

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SECTION 13: Disposal considerations

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	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	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

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.
Tunnel code	: (D/E)
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.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre user	ecautions 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

•			
upright and secure.	Ensure that persons	transportin	g the product know what to do in the
event of an acciden	t or spillage.		

Conforms to Regulation 2020/878	(EC) No. 1907/2006 (REACH	I), Annex II, as amended by Commissic	on Regulation (EU)
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SECTION 14: Tra	nsport information		
14.7 Transport in bulk according to IMO instruments	: Not applicable.		
SECTION 15: Reg	ulatory information		
15.1 Safety, health and e	environmental regulations/le	egislation specific for the substance o	r mixture
EU Regulation (EC) No	<u>. 1907/2006 (REACH)</u>		
Annex XIV - List of su	bstances subject to authori	isation	
Annex XIV			
None of the componer	its are listed.		
Substances of very h	igh concern		
None of the componer	its are listed.		
Annex XVII - Restriction on the manufacture, placing on the marked and use of certain dangerous substance mixtures and articles	:		
Other national and inte	rnational regulations		
Explosive precursors	: Not applicable.		
Ozone depleting subs	••		
Not listed.			
15.2 Chemical safety assessment	: No Chemical Safety	Assessment has been carried out.	
SECTION 16: Oth	er information		
Indicates information	that has changed from previo	usly issued version.	
Abbreviations and acronyms	: ATE = Acute Toxicit CLP = Classification 1272/2008] DNEL = Derived No	y Estimate , Labelling and Packaging Regulation [Re Effect Level _P-specific Hazard statement	egulation (EC) No.

	EUH sta PNEC =	Derived No Effect Level tement = CLP-specific Hazard statement Predicted No Effect Concentration REACH Registration Number
Full text of abbreviated H	: H225	Highly flammable liquid and vapour.
statements	H226	Flammable liquid and vapour.
	H301	Toxic if swallowed.
	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H311	Toxic in contact with skin.
	H312	Harmful in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H330	Fatal if inhaled.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H361d	Suspected of damaging the unborn child.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.

H400 Very toxic to aquatic life.H410 Very toxic to aquatic life with long lasting effects.

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SECTION 16: Other	information	
		quatic life with long lasting effects. ong lasting harmful effects to aquatic life. the respiratory tract.
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. 2 Skin Corr. 1 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 1 SKIN CORROSION/IRRITATION - Category 1 SKIN SENSITISATION - CATEGORY 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 15 March 2024	
Date of previous issue	: 20 February 2024	
Prepared by	: EHS	
Version	: 1.01	

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