SAFETY DATA SHEET

Date of issue/Date of revision

: 12 April 2024

Version

: 1.03

Egypt



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

1.1 Product identifier	
Product name	: SIGMA ECOFLEET 290 S REDBROWN
Product code	: 000001100417
Other means of identification 00249481	tion
1.2 Relevant identified uses	s 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	of the safety data sheet
Sigma Paints Egypt Villa#8, street 279 New Maadi, Cairo Egypt Tel: 00202 516 223 797 Fax: 00202 516 38 04	
e-mail address of person	: PS.ACEMEA@ppg.com

1.4 Emergency telephone : +20 2 6840902 number

responsible for this SDS

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 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as bazardous according to Regulation (EC) 1272/2008

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

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

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

2.2 Label elements

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SIGMA ECOFLEET 290 S REI	BROWN
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away f heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Av release to the environment.
Response	: Collect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P403 + P233, P501
Hazardous ingredients	 Accopper oxide Hydrocarbons, C9, aromatics < 0.1% cumene rosin 4-methylpentan-2-one zineb (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 requiren	<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 vi
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]
Hydrocarbons, C9, aromatics < 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[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]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥5.0 - ≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥5.0 - ≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]
zineb (ISO)	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≥5.0 - ≤10	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	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]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
copper	REACH #: 01-2119480154-42	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
		English	(GB)	Egypt	3/16

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SECTION 3	: Composition/information	on on ingredients	
	EC: 231-159-6		
	CAS: 7440-50-8		
	CAS: 7440-50-8	See Section 16 for	

statements declared

above.

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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	<u>n effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

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SECTION 4: First aid	measures			
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur			
Ingestion	: Adverse symptoms may include the following: stomach pains			
4.3 Indication of any immedia	ate 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: Firefight	ting 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 fi	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 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			

SECTION 6: Accidental release measures

6.1 Personal precautions,	protective 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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001100417 Date of issue/Date of revision : 12 April 2024 SIGMA ECOFLEET 290 S REDBROWN SECTION 6: Accidental release measures 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 nonemergency personnel". 6.2 Environmental 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 precautions 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 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. Stop leak if without risk. Move containers from spill area. Use spark-proof tools and Large spill ŝ 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 noncombustible, 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. See Section 1 for emergency contact information. 6.4 Reference to other ÷ See Section 8 for information on appropriate personal protective equipment. sections

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).

See Section 13 for additional waste treatment information.

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. 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.

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SECTION 7: Handl	ing and storage)	
7.2 Conditions for safe storage, including any incompatibilities	with local regula container protec from incompatib Eliminate all ign closed and seal carefully reseale containers. Use	the following temperatures: 0 to 35°C (32 to 95° ations. Store in a segregated and approved are cted from direct sunlight in a dry, cool and well- ble materials (see Section 10) and food and drin ition sources. Separate from oxidising material ed until ready for use. Containers that have be ed and kept upright to prevent leakage. Do not e appropriate containment to avoid environmen ncompatible materials before handling or use.	ea. Store in original ventilated area, away nk. Store locked up. ls. Keep container tightly een opened must be store in unlabelled

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	Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011). [copper fume] TWA: 12 mg/m ³ 8 hours. Form: fume
rosin	ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitiser. Inhalation sensitiser. TWA: 0.001 mg/m ³ , (as total Resin acids) 8 hours. Form: Inhalable
zinc oxide	fraction Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011). STEL: 10 mg/m ³ 15 minutes. Form: dust TWA: 5 mg/m ³ 8 hours. Form: dust TWA: 10 mg/m ³ 8 hours. Form: fume
4-methylpentan-2-one	ACGIH TLV (United States, 1/2023). Notes: Substances for which there is a Biological Exposure Index or Indices STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.
Limestone	Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011). [calcium carbonate, including marble, limestone and others] TWA: 10 mg/m ³ 8 hours. Form: total dust
1,2,4-trimethylbenzene	Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011). [trimethylbenzene (mixed isomers)] TWA: 123 mg/m ³ 8 hours. TWA: 25 ppm 8 hours.
diiron trioxide	Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011). TWA: 5 mg/m ³ , (as Fe) 8 hours. Form: dust and fumes
xylene	Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011). [xylene (o-, m-, p-isomers)] STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
۰ ــــــــــــــــــــــــــــــــــــ	English (GB) Egypt 7/16

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Talc , not containing asbestiform fibres		TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable		
Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: Europ Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exp by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical an biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		e assessment of exposure es and measurement eres - Guide for the sure to chemical and mospheres - General urement of chemical	
3.2 Exposure controls				
Appropriate engineering controls	other engineering recommended	dequate ventilation. Use process enclosures, ng controls to keep worker exposure to airborn or statutory limits. The engineering controls al concentrations below any lower explosive limits oment.	e contaminants below an so need to keep gas,	
Individual protection measur	<u>'es</u>			
Hygiene measures	eating, smoking Appropriate tec Contaminated v contaminated c	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection <u>Skin protection</u>	: Chemical splas	Chemical splash goggles and face shield.		
Hand protection	worn at all times necessary. Con during use that noted that the ti glove manufact protection time frequently repea (breakthrough t When only brief (breakthrough t The user must product is the m	ant, impervious gloves complying with an appr s when handling chemical products if a risk as insidering the parameters specified by the glove the gloves are still retaining their protective pro- me to breakthrough for any glove material may urers. In the case of mixtures, consisting of se of the gloves cannot be accurately estimated. ated contact may occur, a glove with a protecti ime greater than 480 minutes according to EN f contact is expected, a glove with a protection ime greater than 30 minutes according to EN check that the final choice of type of glove sele- nost appropriate and takes into account the pa he user's risk assessment.	sessment indicates this is e manufacturer, check operties. It should be y be different for different everal substances, the When prolonged or on class of 6 374) is recommended. class of 2 or higher 874) is recommended. ected for handling this	
Gloves	: butyl rubber			
Body protection	: Personal protective equipment for the body should be selected based on the task b 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 ar static protective clothing. For the greatest protection from static discharges, clothin should include anti-static overalls, boots and gloves. Refer to European Standard I 1149 for further information on material and design requirements and test methods		a specialist before itic electricity, wear anti- tic discharges, clothing European Standard EN	
		twear and any additional skin protection meas		

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Environmo	ntal oxposuro	Emissions from ventilation	or work process equipment st	ould be checked to ensure

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

<u>Appearance</u>								
Physical state	:	Liquid.						
Colour	1	Brownish-red.						
Odour	1	Characteristic.						
Odour threshold	:	Not available.						
Melting point/freezing point	:	May start to solidify at the following temperature: -43.77°C (-46.8°F) This is based on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average: -69.54°C (-93.2°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang light aromatic)	e: Lower:	1.4% U	Ipper: 7.6% (Solvent n	aphtha (p	etroleum),
Flash point	1	Closed cup: 30°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		zineb (ISO)		149	300.2			
Decomposition temperature pH Viscosity	:	Stable under recomm Not applicable. insolu	uble in wa	-	nd handling c	onditions	(see Sec	tion 7).
	-	Kinematic (40°C): >2	21 mm²/s					
Solubility(ies)	:	· · ·	1 mm²/s					
Solubility(ies) Media	:	Result	21 mm²/s					
Solubility(ies)	:	· · ·	21 mm²/s					
Solubility(ies) Media	:	Result Not soluble	21 mm²/s					
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result Not soluble Not applicable.		ır Press	ure at 20°C	Vap	our press	sure at 50°C
Solubility(ies) Media cold water Partition coefficient: n-octanol		Result Not soluble		1	ure at 20°C Method	mm	our press	Sure at 50°C
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water		Result Not soluble Not applicable.	Vapou mm Hg	1	1	-		+
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure	:	Result Not soluble Not applicable. Ingredient name	Vapou mm Hg 15.75128 : 1.7 (4-m	kPa 2.1 ethylper	Method	mm Hg	kPa	+
Solubility(ies) Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate	:	Result Not soluble Not applicable. Ingredient name Image: Mathematical Action of the second se	Vapou mm Hg 15.75128 : 1.7 (4-m	kPa 2.1 ethylper	Method	mm Hg	kPa	+
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result Not soluble Not applicable. Ingredient name Impredient nampredient nampredient nampredient nampredient nampredient nampred	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta	kPa 2.1 ethylper te	Method ntan-2-one) N	mm Hg Veighted	kPa average:	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density	:	Result Not soluble Not applicable. Ingredient name Image: methylpentan-2-one Highest known value 1.56compared with b 1.68	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.15 (Ai not explos	kPa 2.1 ethylper ite ir = 1) (3	Method Intan-2-one) N 3-ethyltoluene	mm Hg Veighted	kPa average:	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties		Result Not soluble Not applicable. Ingredient name Impredient nampredient nampredime Impredime<	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.15 (Ai not explos ir is possi	kPa 2.1 ethylper ite ir = 1) (3 ive, but ble.	Method Intan-2-one) N 3-ethyltoluene the formation	mm Hg Veighted	kPa average:	Method
Solubility(ies) Media cold water Partition coefficient: n-octanology water Vapour pressure Evaporation rate Relative density		Result Not soluble Not applicable. Ingredient name Impredient nampredient nampredient nampredient name	Vapou mm Hg 15.75128 : 1.7 (4-m utyl aceta : 4.15 (Ai not explos ir is possi	kPa 2.1 ethylper ite ir = 1) (3 ive, but ble.	Method Intan-2-one) N 3-ethyltoluene the formation	mm Hg Veighted	kPa average:	Method

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SECTION 9: Physical and chemical properties

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 metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
Hydrocarbons, C9, aromatics < 0.1%	LD50 Dermal	Rabbit -	>2000 mg/kg	-
cumene		Male,	0.0	
		Female		
	LD50 Oral	Rat	8400 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists			

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

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SECTION 11: Toxicological information

: There are no data available on the mixture itself.

- Skin Eyes
- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.
- **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
zineb (ISO)	skin	Guinea pig	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	<u>city (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
₩ydrocarbons, C9, aromatics < 0.1% cumene	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
zineb (ISO)	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Produ	ict/ingredient name	Result		
₩ydrocarbons, C9, aromatics < 0.1% cumene xylene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Information on likely routes of exposure	: Not available.			
Potential acute health ef	fects			
Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.				
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.			
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.			
Eye contact	: Causes serious eye damag	ge.		
Symptoms related to the	physical, chemical and toxicol	ogical characteristics		

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SECTION 11: Toxicological information

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
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.
<u>Long term exposure</u>	
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	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
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.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
Hydrocarbons, C9, aromatics < 0.1% cumene	LC50 9.2 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		
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum		
₩ydrocarbons, C9, aromatics < 0.1% cumene	-	78 % - 28 days ·		-	-		
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days		-	-		
Conclusion/Summary : There are no data available on the mixture itself.							
Product/ingredient name	Aquatic half-life	Photolysis		Biodegradability			
₩ydrocarbons, C9, aromatics <	-	-		Readily			
4-methylpentan-2-one		-	-		Readily		
xylene		-	-		Readily		

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Fydrocarbons, C9, aromatics < 0.1% cumene	3.7 to 4.5	10 to 2500	High
rosin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
xylene	3.12	7.4 to 18.5	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 : The generation of waste should be avoided or minimised wherever possible. Disposal Methods of 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. The classification of the product may meet the criteria for a hazardous waste. **Hazardous waste** ŝ,

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	taken when l Empty conta residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

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)	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)

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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SECTIO	N 14: Transpo	rt information		
IMDG	: The marine	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.		
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.			
14.6 Speci user	al precautions for	Transport within user's premises: always transport i upright and secure. Ensure that persons transporting 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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market

and use of certain

dangerous substances,

mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety : No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

		English (GB)	Egypt	15/16	
	H332	Harmful if inhaled.			
	H319	Causes serious eye irritation.			
	H318	Causes serious eye damage.			
	H317	May cause an allergic skin reaction.			
	H315	Causes skin irritation.			
	H312	Harmful in contact with skin.			
	H304	May be fatal if swallowed and enters airways.			
	H302	Harmful if swallowed.			
statements	H226	Flammable liquid and vapour.			
Full text of abbreviated H	: H225	Highly flammable liquid and vapour.			
		REACH Registration Number			
		Predicted No Effect Concentration			
		atement = CLP-specific Hazard statement			
	1272/20	Derived No Effect Level			
acronyms		Classification, Labelling and Packaging Regulati	on [Regulation (EC)	NO.	
Abbreviations and		: ATE = Acute Toxicity Estimate			
	has changed	from previously issued version.			
Indicator information that	has shanged	from proviously issued version			

Conforms to Regulation (EC) 2020/878) No. 1907/2006 (REACH), /	Annex II, as amended by Commission Regulation (EU)
Code : 00000110041		Date of issue/Date of revision : 12 April 2024
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SECTION 16: Other i	information	
	H336May cause drH351Suspected ofH400Very toxic toH410Very toxic toH411Toxic to aquaH412Harmful to act	espiratory irritation. rowsiness or dizziness. ^c causing cancer. aquatic life. aquatic life with long lasting effects. atic life with long lasting effects. quatic life with long lasting effects. posure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
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Prepared by	: EHS	
Version	: 1.03	
Disalainean		

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