SAFETY DATA SHEET

United Arab Emirates

: 6.01

Date of issue/Date of revision : 13 Au

: 13 August 2024 Version

SECTION 1: Identif undertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMA ECOFLEET 290 BROWN
Product code	: 00331471
Other means of identification	ition
Not available.	
1.2 Relevant identified use	es 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 the safety data sheet
Sigma Paint Saudi Arabia L PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	.td.
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 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. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 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

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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. May cause 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 from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid 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	 dicopper 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	: Restricted to professional users.
Special packaging requiren	<u>ients</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 vPvl
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
øicopper 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: 128601-23-0	≥10 - <20	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% 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	≥10 - ≤25	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	≥1.0 - ≤5.0	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]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥0.30 - ≤2.4	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
copper(II) oxide	REACH #:	≤1.0	Aquatic Acute 1, H400	M [Acute] = 100	[1]
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	01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6		Aquatic Chronic 1, H410 M [[Chronic] = 10	
copper	REACH #: 01-2119480154-42	<1.0	Aquatic Acute 1, H400 M [Aquatic Chronic 3, H412	[Acute] = 1	[1]

EC: 231-159-6 CAS: 7440-50-8 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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

[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

an besonption of mot and n	
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: 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 ef	iects
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/sy	nptoms

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
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SECTION 4: First aid measures

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
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 imr	nediate 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.

Snacific	treatments

: No specific treatment.

SECTION 5: Firefighting measures

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Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-c apparatus (SCBA) with a full face-piece operated in positive pressure for fire-fighters (including helmets, protective boots and gloves) confo standard EN 469 will provide a basic level of protection for chemical in	mode. Clothing orming to European
Special precautions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity o there is a fire. No action shall be taken involving any personal risk or training. Move containers from fire area if this can be done without ris spray to keep fire-exposed containers cool. 	without suitable
5.3 Advice for firefighters		
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides	
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or exp a fire or if heated, a pressure increase will occur and the container marisk of a subsequent explosion. This material is very toxic to aquatic l lasting effects. Fire water contaminated with this material must be co prevented from being discharged to any waterway, sewer or drain.	ay burst, with the life with long
5.2 Special hazards arising f	from the substance or mixture	
Unsuitable extinguishing media	: Do not use water jet.	
5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.	

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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 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.
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

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sections See Section 1 for energency 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. 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.

SECTION 7: Handling and storage		
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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, 7/2023). [copper fume] TWA: 0.2 mg/m ³ 8 hours. Form: Fume
rosin	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). Skin sensitiser. Inhalation sensitiser.
	ACGIH TLV (United States, 7/2023). [resin acids] Skin sensitiser. Inhalation sensitiser.
	TWA: 0.001 mg/m³, (as total Resin acids) 8 hours. Form: Inhalable fraction
zinc oxide	 Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m³ 8 hours. Form: fumes STEL: 10 mg/m³ 15 minutes. Form: fumes Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 10 mg/m³ 15 minutes. Form: measured as respirable fraction of the aerosol and fume TWA: 2 mg/m³ 8 hours. Form: measured as respirable fraction of the aerosol and fume ACGIH TLV (United States, 7/2023). Notes: Respirable fraction; see Appendix C, paragraph C. ACGIH 2003 Adoption STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
4-methylpentan-2-one	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 82 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 307 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes.
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SIGNA ECOPLEET 290 BROWN	Cobinet Decree (42) of 2006 Decording Deculation Concerning
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 75 ppm 15 minutes. TWA: 205 mg/m ³ 8 hours. STEL: 307 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023). Notes: Substances for which there is a Biological Exposure Index or Indices STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.
1,2,4-trimethylbenzene	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [trimethyl benzene (mixed isomers)] TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours. ACGIH TLV (United States, 7/2023). TWA: 10 ppm 8 hours.
diiron trioxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 5 mg/m ³ 8 hours. Form: measured as respirable fraction of
	the aerosol 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. ACGIH TLV (United States, 7/2023). Notes: Refers to Appendix B Substances of Variable Composition. Respirable fraction; see Appendix C, paragraph C. TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
xylene	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). [xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 651 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.
12-hydroxyoctadecanoic acid, rea with 1,3-benzenedimethanamine hexamethylenediamine	
procedures	erence should be made to monitoring standards, such as the following: European ndard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure nhalation to chemical agents for comparison with limit values and measurement tegy) European Standard EN 14042 (Workplace atmospheres - Guide for the lication and use of procedures for the assessment of exposure to chemical and ogical agents) European Standard EN 482 (Workplace atmospheres - General uirements for the performance of procedures for the measurement of chemical onts) Reference to national guidance documents for methods for the determination nazardous substances will also be required.

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ntilation or below any gas, n-proof
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hould be es this is check d be different s, the d or ended. her nded. g this s of use,
ask being e ar anti- othing ard EN hods.
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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	: Brown.
Odour	: Aromatic.
Odour threshold	: Not available.
Melting point/freezing point	÷

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SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	:	07 7000							
		-70.37°C (-94.7°F) >37.78°C							
Flammability	:	Not available.	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic)							
Flash point	:	Closed cup: 31°C							
Auto-ignition temperature	:	Ingredient name		°C	°F		Method		
		zineb (ISO)		149	300.2				
Decomposition temperature	:	Stable under recomm	nended st	orage ar	nd handling co	nditions	s (see Sec	tion 7).	
рН	4	Not applicable. insolu		er.					
Viscosity	1	Kinematic (40°C): >2	21 mm²/s						
Solubility(ies)	1								
Media		Result	Result						
cold water		Not soluble							
Partition coefficient: n-octanol/ water	:	Not applicable.							
Vapour pressure	:		Vapour Pressure at 20°C			Vap	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		✓ methylpentan-2-one	15.75128	2.1					
Evaporation rate	:	Highest known value: 1.7 (4-methylpentan-2-one) Weighted average: 1.56compared with butyl acetate							
Relative density	:	1.67							
Vapour density	1	Highest known value: 4.1 (Air = 1) (1,2,4-trimethylbenzene). Weighted average: 3.68 (Air = 1)							
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	sent an o	kidizing	hazard.				
Strang history									
Particle characteristics									

No additional information.

SECTION 10: Stability and	reactivity
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		English (GB) United Arab Emirates 10/18
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	:	The product is stable.
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.

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10.5 Incompatible materials	4	Keep away from the following materials to prevent strong exothermic reactions:
		oxidising agents, strong alkalis, strong acids.

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 mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat - Female	3492 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	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
51	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	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine and hexamethylenediamine	mists			
•	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours

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							
Skin : There are no data available on the mixture itself.							

SKIN	: I here are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	

^{10.6} Hazardous: Depending on conditions, decomposition products may include the following materials:
carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

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SECTION 11: Toxicological information

Product/ingr	edient name	Route of exposure	Species	Result
zĭneb (ISO)		skin	Guinea pig	Sensitising
Conclusion/Summary				!
Skin	: There are no data	available on the mixtu	re itself.	
Respiratory	: There are no data	available on the mixtu	re itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data	available on the mixtu	re itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data	available on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data	available on the mixtu	re itself.	
Teratogenicity				
Conclusion/Summary	: There are no data	available on the mixtu	re itself.	
Specific target organ toxi	<u>city (single exposure)</u>			

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

Aspiration hazard

Produ	ict/ingredient name	Result
Hydrocarbons, C9, aroma xylene	atics > 0.1% cumene	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 s dizziness. May cause respir	ystem (CNS) depression. May cause drowsiness or atory irritation.
Ingestion	: Harmful if swallowed. Can c	ause central nervous system (CNS) depression.
Skin contact	Defatting to the skin May ca	ause skin drvness and irritation May cause an allergic skin

Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin
	reaction.
E	

Eye contact : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological 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	1	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	s as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	1	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	ect	<u>S</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	:	May cause 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	EC50 3.2 mg/l	Daphnia	48 hours
	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 - <i>Daphnia</i>	48 hours
	Fresh water	<i>magna</i> - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and		Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia</i>	48 hours
		magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
		mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
		Pseudokirchneriella	
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia</i>	21 days
		magna (Water flea)	
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i>	21 days
		magna - Neonate	

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readily - 28 days	-	-
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-
12-hydroxyoctadecanoic acid, reaction products with	OECD 301D Ready	9 % - Not readily - 29 days	-	-
1,3-benzenedimethanamine and hexamethylenediamine	Biodegradability - Closed Bottle Test			

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓ydrocarbons, C9, aromatics > 0.1% cumene 4-methylpentan-2-one	-	-	Readily Readily
xylene	-	-	Readily

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential	
F osin	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-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High	

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product		
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.	
Hazardous waste	: Yes.	
European waste catalog	<u>ue (EWC)</u>	
Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
ackaging		
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	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regula	tion (EU)	
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SECTION 13: Disposal considerations

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)	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

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.

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SECTION 15: Regula	atory information		
Annex XVII - Restrictions	: Restricted to profession	al users.	
on the manufacture,			
placing on the market			
and use of certain dangerous substances,			
mixtures and articles			
Other national and interna	tional regulations.		
Explosive precursors	: Not applicable.		
Ozone depleting substand			
Not listed.	· · · · · · · · · · · · · · · · · · ·		
45.2 Chemical asfaty	No Chamical Safaty Asa	ecoment has been corried out	
15.2 Chemical safety assessment	: No Chemical Salety Ass	essment has been carried out.	
	1 . f		
SECTION 16: Other	information		
Indicates information that	has changed from previously	<i>i</i> ssued version.	
Abbreviations and	: ATE = Acute Toxicity Es		
acronyms	CLP = Classification, La 1272/2008]	abelling and Packaging Regulation [Re	gulation (EC) No.
	DNEL = Derived No Effe	ect Level	
		specific Hazard statement	
	PNEC = Predicted No E		
	RRN = REACH Registra		
Full text of abbreviated H		able liquid and vapour.	
statements	H226 Flammable lic H302 Harmful if swa	luid and vapour.	
		f swallowed and enters airways.	
		ntact with skin.	
	H315 Causes skin i		
		ı allergic skin reaction. us eye damage.	
		us eye irritation.	
	H332 Harmful if inha		
		spiratory irritation.	
		owsiness or dizziness.	
	H350 May cause ca H351 Suspected of	causing cancer.	
	•	mage to organs through prolonged or	repeated exposure.
	H400 Very toxic to a	aquatic life.	
		aquatic life with long lasting effects.	
		tic life with long lasting effects. uatic life with long lasting effects.	
		ng lasting harmful effects to aquatic life).
		oosure may cause skin dryness or crac	
Full text of classifications	: Acute Tox. 4	ACUTE TOXICITY - Category 4	
[CLP/GHS]	Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATI	
	Aquatic Chronic 1		
	Aquatic Chronic 2 Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT	
	Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUAT	
	Asp. Tox. 1	ASPIRATION HAZARD - Category	/1
	Carc. 1B	CARCINOGENICITY - Category 1	
	Carc. 2	CARCINOGENICITY - Category 2	
	Eye Dam. 1 Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRI SERIOUS EYE DAMAGE/EYE IRI	
	Flam. Liq. 2	FLAMMABLE LIQUIDS - Category	

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

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SECTION 16: Oth	ner information		
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
	Skin Sens. 1	SKIN SENSITISATION - Category 1	

SPECIFIC TARGET ORGAN TOXICITY - REPEATED

SPECIFIC TARGET ORGAN TOXICITY - SINGLE

EXPOSURE - Category 2

EXPOSURE - Category 3

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STOT RE 2

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