SAFETY DATA SHEET

Date of issue/Date of revision

: 15 December 2023 Version





: 3

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

1.1 Product identifier		
Product name	:	SIGMA ECOFLEET 290S BLUE 1001
Product code	:	00426909
Other means of identification	on	
Not available.		
1.2 Relevant identified uses	of 1	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	e safety data sheet
Sigma Paint Saudi Arabia Ltd		
PO Box 7509, Dammam 314 Saudi Arabia	72	
Tel: 00966 138 47 31 00		
Fax: 00966 138 47 17 34		
e-mail address of person responsible for this SDS	:	PS.ACEMEA@ppg.com

1.4 Emergency telephone : 00966 138473100 extn 1001 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] ▼am. 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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SIGMA ECOFLEET 290S BLU	E 1001			
SECTION 2: Hazards	identification			
Hazard pictograms				
Signal word	: Danger			
Hazard statements	: Mammable liquid and v Harmful if swallowed. May cause an allergic s Causes serious eye dan May cause respiratory i May cause drowsiness May cause cancer. Verv toxic to aquatic life	kin reaction. mage. rritation.		
Precautionary statements	, , , , , , , , , , , , , , , , , , ,	5 5		
Prevention		, protective clothing and eye or face pro ks, open flames and other ignition sou lent.		
Response	: 🖉ollect spillage.			
Storage	: Store in a well-ventilate	d place. Keep container tightly closed.		
Disposal	 Dispose of contents and international regulations P280, P210, P273, P39 		regional, national and	
Hazardous ingredients	 dicopper oxide Hydrocarbons, C9, aror rosin 4-methylpentan-2-one zineb (ISO) 1,3-bis[12-hydroxy-octa 	natics > 0.1% cumene decamide-N-methylene]-benzene		
Supplemental label elements	: ₩arning! Hazardous re spray or mist.	spirable droplets may be formed when	sprayed. Do not breathe	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to profession	nal users.		
Special packaging requirem	<u>ents</u>			
Containers to be fitted with child-resistant fastenings	: Not applicable.			
Tactile warning of danger	: Not applicable.			
2.3 Other hazards				
Product meets the criteria for PBT or vPvB	: This mixture does not c	ontain any substances that are assess	ed to be a PBT or a vPvE	
Other hazards which do not result in classification	: Prolonged or repeated	contact may dry skin and cause irritatio	n.	

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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 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	≥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	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]
1,3-bis[12-hydroxy-	REACH #:	<1.0	Skin Sens. 1, H317	-	[1] [2]
		English	(GB) Saudi	Arabia	3/16

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SECTION 3: Composition/information on ingredients				
octadecamide-N-	01-2119962189-26	Aquatic Chronic 4, H413		

			See Section 16 for the full text of the H statements declared above.			
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]	
methylene]-benzene	CAS: 911674-82-3 Index: 616-198-00-2					

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.

Туре

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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 effect	<u>ts</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	: F armful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	toms

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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
.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

		English (GB)	Saudi Arabia	5/16
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriat apparatus (SCBA) with a full face-p for fire-fighters (including helmets, p standard EN 469 will provide a basi	ece operated in positive pressure r protective boots and gloves) confor	mode. Clothing ming to European
Special precautions for fire-fighters	:	Promptly isolate the scene by remo- there is a fire. No action shall be ta training. Move containers from fire spray to keep fire-exposed container	ken involving any personal risk or v area if this can be done without risl	vithout suitable
5.3 Advice for firefighters				
Hazardous combustion products	:	Decomposition products may includ carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides	e the following materials:	
Hazards from the substance or mixture	:	Flammable liquid and vapour. Rund a fire or if heated, a pressure increa- risk of a subsequent explosion. Thi lasting effects. Fire water contamin prevented from being discharged to	se will occur and the container ma s material is very toxic to aquatic lif ated with this material must be con	y burst, with the fe with long
5.2 Special hazards arising fr	ron	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	r (fog) or foam.	
k				

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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	otective 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

explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
 6.4 Reference to other

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

sections

Protective measures	: Fut 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: Handling and storage

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	ACGIH TLV (United States, 1/2023). [Copper Fume] TWA: 0.2 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 fraction
4-methylpentan-2-one	EU OEL (Europe, 1/2022). STEL: 208 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	ACGIH TLV (United States). TWA: 3 mg/m ³ , (Respirable fraction)

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure 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 and 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.

8.2 Exposure controls

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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	Ires
Hygiene measures	: 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 splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:
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

Appearance	
Physical state	: Liquid.
Colour	: Blue.
Odour	: Aromatic. [Strong]
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: -70.17°C (-94.3°F)

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SIGMA ECOFLEET 290S BLUE	1001							
SECTION 9: Physical a	and	chemical prop	perties					
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	-	Greatest known rang light aromatic)	ge: Lower:	1.4% l	Jpper: 7.6% (S	olvent ı	naphtha (p	etroleum),
Flash point	:	Closed cup: 32°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		zineb (ISO)		149	300.2			
Decomposition temperature	:	Stable under recomm	nended st	orage a	nd handling co	ndition	s (see Sec	tion 7).
рН	:	Not applicable. insolu						
Viscosity	:	Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s						
Viscosity		$\mathbf{\overline{V}}_{100 \text{ s}} (\text{ISO 6mm})$						
Solubility(ies)								
Media		Result						
old water		Not soluble						
Partition coefficient: n-octano water	ol/ :	Not applicable.						
Vapour pressure	:		Vapour Pressure at 20°C			Vap	oour press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		<mark>∮-</mark> methylpentan-2-one	15.75128	2.1				
Evaporation rate	:	Highest known value 1.54compared with b			ntan-2-one) W	eighteo	d average:	
Relative density	:	1.64						
Vapour density	-	Highest known value 3.69 (Air = 1)	e: 4.1 (Air	= 1) (1	,2,4-trimethylbe	enzene). Weighte	ed average:
Explosive properties	:	The product itself is a vapour or dust with a			the formation of	of an ex	xplosible m	ixture of
		Product does not pre	esent an o	xidizing	hazard.			
Oxidising properties								
Particle characteristics		_						
		Not applicable.						

SECTION 10: Stabi	lity and reactivit	У		
10.1 Reactivity	: No specific test d	ata related to reactivity a	available for this product or its	ingredients.
10.2 Chemical stability	: The product is sta	able.		
10.3 Possibility of hazardous reactions	: Under normal cor	nditions of storage and u	use, hazardous reactions will n	ot occur.
10.4 Conditions to avoid	•	o high temperatures may e measures listed in sec	y produce hazardous decompo ctions 7 and 8.	osition products.
		English (GB)	Saudi Arabia	9/16

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SECTION 10: Stability and reactivity

- **10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- **10.6 Hazardous**: 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 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
	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	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists		_	
octadecanoic acid and				
1,3-phenylenedimethanamine				
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
kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary	
Skin	: Th
Eyes	: Th

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

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English (GB)
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SECTION 11: Toxicological information

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 toxi	<u>city (single exposure)</u>

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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely	: Not available.
routes of exposure	

Potential acute health effects

		En allah (OD)	Ooud! Anabia	44/40
	cracking blistering may occu	ır		
Skin contact	: Adverse symptoms pain or irritation redness dryness	s may include the follow	wing:	
Ingestion	: Adverse symptoms stomach pains	may include the follow	wing:	
	respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness			
Inhalation	: Adverse symptoms	may include the follow		
	the physical, chemical and	-	teristics	
Eye contact	: Causes serious ey	e damage.		
Skin contact	: Defatting to the ski reaction.	n. May cause skin dry	ness and irritation. May cau	se an allergic skin
Ingestion	: 📕 armful if swallowe	ed. Can cause central	nervous system (CNS) depre	ession.
Inhalation		nervous system (CNS use respiratory irritatio) depression. May cause dro n.	owsiness or
Potential acute health	<u>effects</u>			

Code	00426000	Data of issue/Data of revision	15 December 202
2020/878			
Conforms to	Regulation (EC) No	b. 1907/2006 (REACH), Annex II, as amended by Commission	Regulation (EU)

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SECTION 11: Toxicological information

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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
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	1	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	1	\overline{M} ay cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	1	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.

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 - Daphnia	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
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 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
	English (GB)	Saudi Arabia	12/16

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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
✓ydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readi	ly - 28 days	-	-
4-methylpentan-2-one	OECD 301F	83 % - Readi	ly - 28 days	-	-
Conclusion/Summary	: There are no	data available on	the mixture	itself.	
Product/ingredient name	Aquatic h	alf-life	Photolysis	Biodegradability	
₩ydrocarbons, C9, aromatics > 0.1% cumene 4-methylpentan-2-one				-	Readily Readily
xylene		-		-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
r 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

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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 <u>Product</u>	
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.
<u>European waste catalogue (</u>	EWC)

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SECTION 13: Disposal considerations

	Waste code	Waste designation
	08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
D	aakaaina	

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 ma Do not cut, v	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. weld 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	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	ecautions for : Transport within user's premises: always transport in closed containers that are

user

upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 14: Transport inform	ation
14.7 Transport in bulk : Not applica according to IMO instruments	ble.
SECTION 15: Regulatory inform	nation
15.1 Safety, health and environmental regu	ations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH	D.
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 : Restricted t on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	o professional users.
Other national and international regulation	<u>15.</u>
Explosive precursors : Not applicat	
Ozone depleting substances (1005/2009/E	<u>:U)</u>
Not listed.	
15.2 Chemical safety : No Chemical safety	I Safety Assessment has been carried out.
SECTION 16: Other information	1
Indicates information that has changed fro	
Abbreviations and $\cdot \Delta TE = \Delta cut$	o Toxicity Estimato

	H412 H413	May cause long lasting harmful		
	H41Z	riamini to aquatic me with long	J lasting ellects.	
	11440	Harmful to aquatic life with long	n lasting effects	
	H411	Toxic to aquatic life with long la		
	H410	Very toxic to aquatic life with lo	ng lasting effects.	
	H400	Very toxic to aquatic life.		
	H351	Suspected of causing cancer.		
	H350	May cause cancer.		
	H336	May cause drowsiness or dizzi		
	H335	May cause respiratory irritation		
	H332	Harmful if inhaled.		
	H319	Causes serious eye unrage.		
	H318	Causes serious eye damage.		
	H317	May cause an allergic skin read	ction	
	H312 H315	Causes skin irritation.		
	H304	May be fatal if swallowed and e Harmful in contact with skin.	enters airways.	
	H302	Harmful if swallowed.		
statements	H226	Flammable liquid and vapour.		
Full text of abbreviated H	: H225	Highly flammable liquid and va	pour.	
		REACH Registration Number		
		Predicted No Effect Concentration	on	
		atement = CLP-specific Hazard st		
		Derived No Effect Level		
	1272/20			
acronyms	CLP = (Classification, Labelling and Pack	aging Regulation [Regulation (EC	C) No.
Abbreviations and	: ATE = A	Acute Toxicity Estimate		
Indicates information that h	has changed	I from previously issued version.		

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SECTION 16: Other	information				
	EUH066 Repeated exposure 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 Aquatic Chronic 4 Asp. Tox. 1 Carc. 1B 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 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category ASPIRATION HAZARD - Category 1 CARCINOGENICITY - 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>					
Date of issue/ Date of revision	: 15 December 2023				
Date of previous issue	: 9 July 2021				
Prepared by	: EHS				
Version	: 3				
Disclaimer					

<u>Disclaimer</u>

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