SAFETY DATA SHEET

United Arab Emirates

: 1.04

Date of issue/Date of revision

: 27 December 2023 Version

SECTION 1: Identif undertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMA SAILADVANCE NX BROWN
Product code	: 00436590
Other means of identification Not available.	ation
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 I 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	e : 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 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 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 SAILADVANCE NX BF)WN
SECTION 2: Hazards	dentification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release the environment.
Response	: Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P305 + P351 + P338, P501
Hazardous ingredients	 Copper oxide rosin bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper 4,5-dichloro-2-octyl-2H-isothiazol-3-one octhilinone (ISO)
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ints
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 vP
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

5.2 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]
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤17	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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - <10	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥5.0 - ≤10	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	≥1.0 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥0.30 - ≤2.8	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]
bis(1-hydroxy-1H-pyridine- 2-thionato-O,S)copper	EC: 238-984-0 CAS: 14915-37-8	≥1.0 - ≤4.4	Acute Tox. 4, H302 Acute Tox. 2, H330 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1075 mg/ kg ATE [Inhalation (dusts and mists)] = 0.07 mg/l M [Acute] = 100	[1]
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SECTION 3: Comp	osition/informat	ion on	ingredients		
				M [Chronic] = 100	
4,5-dichloro-2-octyl-2H- isothiazol-3-one	EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 567 mg/ kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 0.16 mg/l Skin Corr. 1, H314: C \geq 5% Skin Irrit. 2, H315: 0.025% \leq C < 5% Eye Dam. 1, H318: C \geq 3% Eye Irrit. 2, H319: 0.025% \leq C < 3% Skin Sens. 1, H317: C \geq 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
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 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
octhilinone (ISO)	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	<0.0010	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 See Section 16 for the full text of the H statements declared	ATE [Oral] = 125 mg/ kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: C \geq 0.0015% M [Acute] = 100 M [Chronic] = 100	

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.

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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

4.2 most important sympto	ins and checks, both acute and delayed
Potential acute health effe	<u>ects</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sym	<u>iptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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 imme	diate 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: Firefig	hting measures
5.1 Extinguishing media Suitable extinguishing	: Use dry chemical, CO ₂ , water spray (fog) or foam.

Unsuitable extinguishing : Do not use water jet. media

media

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds carbonyl halides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ctive 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	ntainment 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 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

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hazard as the spilt product.

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SECTION 6: Accidental release measures

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6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values		
dícopper oxide		AD - Occupational air quality thre ab Emirates, 7/2016). [copper fun	
		8 hours. Form: fumes	-
	•	ed States, 1/2023). [Copper Fume] 8 hours. Form: Fume	1
Talc , not containing asbestiform fibres	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).		
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xylene	TWA: 2 mg/m³ 8 hours. Form: measured as respirable fraction of the aerosolCabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 2 mg/m³ 8 hours.ACGIH TLV (United States, 1/2023).
	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/m ³ 8 hours. STEL: 651 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.
ethylbenzene	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 543 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 543 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption. TWA: 20 ppm 8 hours.
rosin	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). Skin sensitiser. Inhalation sensitiser.
	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
zinc oxide	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m ³ 8 hours. Form: fumes STEL: 10 mg/m ³ 15 minutes. Form: fumes Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 10 mg/m ³ 15 minutes. Form: measured as respirable fraction of the aerosol and fume TWA: 2 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol and fume ACGIH TLV (United States, 1/2023). Notes: Respirable fraction;
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1-methoxy-2-propanol		STEL: 10 mg/m ³ 15 TWA: 2 mg/m ³ 8 hd Abu Dhabi - OSHAl values (United Aral TWA: 369 mg/m ³ 8 TWA: 100 ppm 8 h STEL: 553 mg/m ³ STEL: 150 ppm 15 Cabinet Decree (12	ours. 15 minutes. minutes. 2) of 2006 Regarding Regon Pollution (United Ara minutes. hours. 15 minutes. ours. I States, 1/2023). 15 minutes. minutes. hours.	ole fraction action lity threshold limit gulation Concerning
diiron trioxide		values (United Aral TWA: 5 mg/m ³ 8 hd the aerosol Cabinet Decree (12 Protection of Air fm TWA: 5 mg/m ³ 8 hd ACGIH TLV (United Substances of Va Appendix C, parag	l States, 1/2023). Notes: ariable Composition. Re	respirable fraction of gulation Concerning ab Emirates, 5/2006). Refers to Appendix B spirable fraction; see
Recommended monitoring : procedures	Standard EN 689 by inhalation to o strategy) Europe application and u biological agents requirements for agents) Referen	 Workplace atmosple Hemical agents for content Standard EN 140- Ise of procedures for the performance of point 	ing standards, such as the neres - Guidance for the a omparison with limit values 42 (Workplace atmospher the assessment of exposu I EN 482 (Workplace atmo rocedures for the measur- ce documents for methods equired.	ssessment of exposure and measurement es - Guide for the ure to chemical and ospheres - General ement of chemical
8.2 Exposure controls				
	other engineering recommended o	g controls to keep wor r statutory limits. The oncentrations below a	se process enclosures, loo ker exposure to airborne engineering controls also ny lower explosive limits.	contaminants below any need to keep gas,
Individual protection measures				
Hygiene measures :	eating, smoking Appropriate tech Contaminated we contaminated clo	and using the lavatory niques should be use ork clothing should no	ughly after handling chem / and at the end of the word d to remove potentially co t be allowed out of the word Ensure that eyewash star cocation.	rking period. ntaminated clothing. rkplace. Wash
Eye/face protection : Skin protection	Chemical splash	goggles and face shi	eld.	
Hand protection :				
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU))
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	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>				
Physical state	: Liquid.			
Colour	: Not available.			
Odour	: Characteristic.			
Odour threshold	: Not available.			
Melting point/freezing point	: May start to solidify at the is based on data for the fo waxes, chloro. Weighted a	llowing ingredie	nt: Paraffin w	o 115°C (217.4 to 239°F) This axes and Hydrocarbon
Initial boiling point and boiling range	: >37.78°C			
Flammability	: Not available.			
Upper/lower flammability or explosive limits	: Greatest known range: Lo	wer: 1.48% Up	per: 13.74% (1-methoxy-2-propanol)
Flash point	: Closed cup: 30°C			
Auto-ignition temperature	: Ingredient name	°C	°F	Method
	1-methoxy-2-propanol	270	518	
Decomposition temperature pH Viscosity	 Stable under recommende Not applicable. insoluble in Kinematic (40°C): >21 mn 	n water.	handling conc	litions (see Section 7).

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SECTION 9: Physical and chemical properties

Solubility(ies)	:							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octa water	nol/ :	Not applicable.						
Vapour pressure			Vapou	ur Press	sure at 20°C	Vapo	our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2				
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (eth	nylbenze	ene) Weighteo	d average	e: 0.8com	pared with
Relative density	:	1.67						
Vapour density	:	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.64 (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.						
		Product does not present an oxidizing hazard.						
Oxidising properties		Product does not pre	esent an o	xidizing	hazard.			
Oxidising properties Particle characteristics		Product does not pre	esent an o	xidizing	hazard.			

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
dícopper 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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
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		e. ee	
	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat	>5000 mg/kg	_
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	_
Hydrocarbons, C9, aromatics > 0.1%	LD50 Dermal	Rabbit	>3160 mg/kg	_
cumene	2000 Donnal	1 GD DIC	o roo mg/ng	
	LD50 Oral	Rat -	3492 mg/kg	_
	2200 0101	Female	0 102 mg/ng	
bis(1-hydroxy-1H-pyridine-2-thionato-O,S)	LC50 Inhalation Dusts and	Rat	70 mg/m³	4 hours
copper	mists	T at	70 mg/m	4 Hours
oopper	LD50 Oral	Rat	1075 mg/kg	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and	Rat	0.16 mg/l	4 hours
	mists	T Cat	0.10 mg/i	4 Hours
	LD50 Dermal	Rabbit	3.9 g/kg	
	LD50 Oral	Rat	567 mg/kg	
copper oxide	LD50 Oral	Rat	>2000 mg/kg	
	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
copper	mists	Mat	~5.11 mg/i	4 110015
octhilinone (ISO)	LC50 Inhalation Dusts and	Rat	0.27 mg/l	4 hours
	mists	i vai	0.27 mg/l	4 110015
	LD50 Dermal	Rabbit	311 mg/kg	_
	LD50 Oral	Rat	125 mg/kg	-
		i vai	120 mg/kg	-

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

Irritation/Corrosion

Product/ingredie	nt name	Result	Species	Score	Exposure	Observation
x ylene		Skin - Moderate irritan	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				1		1
Skin	: There are	no data available on the	e mixture itsel	f.		
Eyes	: There are	no data available on the	e mixture itsel	f.		
Respiratory : There are no data available on the mixture itself.						
<u>Sensitisation</u>						
Product/ing	redient name	Rout expo		Spec	ies	Result
octhilinone (ISO)		skin	Мо	use	Sensiti	sing
Conclusion/Summary						
Skin	: There are	e no data available on th	e mixture itse	lf.		
Respiratory : There are no data available on the mixture itself.						

SECTION 11: Toxicological information

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 toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9, aromatics > 0.1% cumene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

: Not available.

Potential acute health effects

Potential acute nealth	<u>1 effects</u>
Inhalation	: Harmful if inhaled.
Ingestion	: Harmful if swallowed.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to	the physical, chemical and toxicological characteristics
Inhalation	: No specific data.
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 immedia	ate effects as well as chronic effects from short and long-term exposure
Short term exposure	<u>e</u>

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		gioarmoniation
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	ct	<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	1	No known significant effects or critical hazards.
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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l LC50 9.2 mg/l	Daphnia Fish	48 hours 96 hours
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Acute EC50 267.368 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Acute LC50 0.318 mg/l Marine water	, Crustaceans - <i>Artemia sp.</i>	48 hours
	Acute LC50 0.0027 mg/l Fresh water	Fish	96 hours
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C)	SECTION 12: Ecological information			
		Chronic NOEC 19.789 µg/l Marine water	Algae - Nitzschia pungens	96 hours
		Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
	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
ethylbenzene Hydrocarbons, C9, aromatics > 0.1% cumene		79 % - Readily - 10 days 75 % - Readily - 28 days	-	-
Conclusion/Summary	: There are no data	a available on the mixture itself.		

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
x ylene	-	-	Readily
ethylbenzene	-	-	Readily
Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
▼ylene	3.12	7.4 to 18.5	Low	
ethylbenzene	3.6	79.43	Low	
rosin	1.9 to 7.7	-	High	
1-methoxy-2-propanol	<1	-	Low	
octhilinone (ISO)	2.45	-	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.

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SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	Yes.
European waste catalogue	(E	<u>WC)</u>

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 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	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	III	III	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

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Tunnel code : (D/E)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878					
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SECTIC	ON 14: Transpo	ort information			
IMDG	: The marine	e pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.			
ΙΑΤΑ	: The environ regulations	nmentally hazardous substance mark may appear if required by other transportation			
14.6 Spec user	ial 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 : 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

Indicates information that	has changed fr	rom previously issued versio	n.	
Abbreviations and acronyms	CLP = Cla 1272/2008 DNEL = D EUH state PNEC = F	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number 		
Full text of abbreviated H statements	H226 H301 H302 H304 H311 H312 H314 H315	Highly flammable liquid and vapour. Flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed and enters airways. Toxic in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction.		
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SECTION 16: Other	information	
Full text of classifications [CLP/GHS]	H318Causes serious eye damage.H319Causes serious eye irritation.H330Fatal if inhaled.H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H350May cause cancer.H373May cause damage to organs through prolonged or repeatedH400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH066Repeated exposure may cause skin dryness or cracking.EUH071Corrosive to the respiratory tract.:Acute Tox. 2Acute Tox. 3ACUTE TOXICITY - Category 2Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Chronic 1LONG-TERM (CHRONIC) AQUATIC HAZ/Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZ/Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZ/Aguatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZ/Aguatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZ/Aguatic Chronic 4SERIOUS EYE DAMAGE/EYE IRRITATIOEye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATIONEye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATIONFlam. Liq. 2FLAMMABLE LIQUIDS - Category 3Skin Corr. 1SKIN CORROS	ARD - Category 1 ZARD - Category 1 ZARD - Category 2 ZARD - Category 3 ON - Category 1 ON - Category 2 Iory 1 Iory 2 - REPEATED
<u>History</u> Date of issue/ Date of revision	: 27 December 2023	
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Prepared by Version	: EHS : 1.04	

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