# **SAFETY DATA SHEET**

United Arab Emirates

Date of issue/Date of revision

: 14 October 2024

Version

: 5.01

SECTION 1: Identifundertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMA SAILADVANCE DX REDBROWN
Product code	: 00393266
Other means of identifica	tion
Not available.	
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Antifouling products
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier	of 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. 2, H225 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 DX RE	DBROWN
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly 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.</li> </ul>
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 t 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	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P391, P305 + P351 + P338, P501</li> </ul>
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	nents
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 vPvE
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

: Mixture

Conforms 2020/878	to Regulation (EC)	No. 1907/2006 (REACH), Annex II, as amended by Commission	on Regulation (EU)
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SIGMA SAILADVANCE DX REDBROWN

## **SECTION 3: Composition/information on ingredients**

			<u> </u>		
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dícopper 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	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤18	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]
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]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥1.0 - ≤5.0	Skin Sens. 1, H317	-	[1] [2]
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 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 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≤1.2	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
4,5-dichloro-2-octyl-2H- isothiazol-3-one	EC: 264-843-8 CAS: 64359-81-5	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312	ATE [Oral] = 567 mg/ kg	[1]
	Index: 613-335-00-8		Acute Tox. 2, H330	ATE [Dermal] = 1100	

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			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	mg/kg         ATE [Inhalation (dusts and mists)] = 0.16 mg/l         Skin Corr. 1, H314: C         ≥ 5%         Skin Irrit. 2, H315:         0.025% ≤ C < 5%         Eye Dam. 1, H318: C         ≥ 3%         Eye Irrit. 2, H319:         0.025% ≤ C < 3%         Skin Sens. 1, H317: C         ≥ 0.0015%         M [Acute] = 100         M [Chronic] = 100	
copper	REACH #: 01-2119480154-4; EC: 231-159-6	<1.0 2	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]

≤0.30

< 0.0010

Skin Sens. 1B. H317

Acute Tox. 3, H301

Acute Tox. 3, H311

Acute Tox. 2, H330

Skin Corr. 1, H314 Eye Dam. 1, H318

Skin Sens. 1A, H317

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

EUH071

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

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.

concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

Aquatic Chronic 3, H412

CAS: 7440-50-8

01-2119978265-26

EC: 204-613-6

CAS: 123-26-2

EC: 247-761-7

Substance classified with a health or environmental hazard

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

SUB codes represent substances without registered CAS Numbers.

[2] Substance with a workplace exposure limit

CAS: 26530-20-1

Index: 613-112-00-5

REACH #:

N,N'-ethane-1,2-diylbis

(12-hydroxyoctadecan-

octhilinone (ISO)

1-amide)

Type

[1] [2]

[1]

ATE [Oral] = 125 mg/

ATE [Dermal] = 311

ATE [Inhalation (dusts

and mists)] = 0.27 mg/l

Skin Sens. 1, H317: C

ka

mg/kg

≥ 0.0015%

M [Acute] = 100 M [Chronic] = 100

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**SECTION 4: First aid measures** 

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4.1 Description of first aid m	neasures and the second s
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

The most important sympt	sins and checks, beth dedice and dediged
Potential acute health eff	ects
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.
<u>Over-exposure signs/syn</u>	nptoms
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.
<b>SECTION 5: Firefig</b>	hting measures
5.1 Extinguishing media Suitable extinguishing	: Use dry chemical, CO <sub>2</sub> , 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	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides
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	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.
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#### 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 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 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.

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**SECTION 7: Handling and storage** 

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

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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		
dicopper oxide	Ministry of Labor (France, 9/2023) [cuivre (fumées)]	
	TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Fume.	
xylene	Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes,	
	<b>purs]</b> Absorbed through skin.	
	STEL 15 minutes: 442 mg/m³.	
	STEL 15 minutes: 100 ppm.	
	TWA 8 hours: 221 mg/m <sup>3</sup> .	
	TWA 8 hours: 50 ppm.	
ethylbenzene	Ministry of Labor (France, 9/2023) Absorbed through skin.	
	TWA 8 hours: 20 ppm.	
	TWA 8 hours: 88.4 mg/m³.	
	STEL 15 minutes: 442 mg/m³.	
	STEL 15 minutes: 100 ppm.	
rosin	Ministry of Labor (France, 9/2023)	
	English (GB) United Arab Emirates 7/19	9

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tetraethyl silicate	TWA 8 hours: 0.1 mg/m <sup>3</sup> (expressed as formaldehyde). <b>Ministry of Labor (France, 9/2023)</b> TWA 8 hours: 5 ppm. TWA 8 hours: 44 mg/m <sup>3</sup> .					
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 8 hours: 0.2 mg/m <sup>3</sup> . Form: fumes.					
xylene	<ul> <li>ACGIH TLV (United States, 7/2023) [copper fume]</li> <li>TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Fume.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit</li> <li>values (United Arab Emirates, 7/2016) [xylene (o, m &amp; p isomer A4.</li> </ul>					
	<ul> <li>STEL 15 minutes: 651 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 150 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 100 ppm.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> <li>[xylene (all isomers)]</li> <li>STEL 15 minutes: 150 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 651 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 100 ppm.</li> <li>ACGIH TLV (United States, 7/2023) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant.</li> <li>TWA 8 hours: 20 ppm.</li> </ul>					
ethylbenzene	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3.</li> <li>STEL 15 minutes: 543 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 125 ppm.</li> <li>TWA 8 hours: 100 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 125 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 543 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 543 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 100 ppm.</li> <li>ACGIH TLV (United States, 7/2023) A3. Ototoxicant.</li> <li>TWA 8 hours: 20 ppm.</li> </ul>					
Talc , not containing asbestiform fibres	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A4.</li> <li>TWA 8 hours: 2 mg/m<sup>3</sup>. Form: measured as respirable fraction of the aerosol.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> </ul>					
zinc oxide	<ul> <li>TWA 8 hours: 2 mg/m<sup>3</sup>.</li> <li>ACGIH TLV (United States, 7/2023) A4.</li> <li>TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable fraction.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016)</li> <li>STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: measured as respirable fraction of the aerosol and fume.</li> <li>TWA 8 hours: 2 mg/m<sup>3</sup>. Form: measured as respirable fraction of the aerosol and fume.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> </ul>					

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	TWA 8 hours: 5 mg/m <sup>3</sup> . Form: fumes. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: fumes. <b>ACGIH TLV (United States, 7/2023)</b> TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable fraction. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Respirable fraction.
diiron trioxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 5 mg/m <sup>3</sup> . 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)
rosin	TWA 8 hours: 5 mg/m <sup>3</sup> . ACGIH TLV (United States, 7/2023) A4. TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) Sensitiser, Keep exposure as low as possible. ACGIH TLV (United States, 7/2023) [resin acids] Skin sensitiser, Inhalation sensitiser. TWA 8 hours: 0.001 mg/m <sup>3</sup> (as total Resin acids). Form: Inhalable fraction.
copper(II) oxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper fume] TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: fumes. ACGIH TLV (United States, 7/2023) [copper fume] TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Fume.
tetraethyl silicate	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) TWA 8 hours: 10 ppm. TWA 8 hours: 85 mg/m <sup>3</sup> . Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 85 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. ACGIH TLV (United States, 7/2023) TWA 8 hours: 10 ppm. TWA 8 hours: 85 mg/m <sup>3</sup> .
copper	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper dusts and mists] TWA 8 hours: 1 mg/m<sup>3</sup> (as Cu). Form: dusts and mists.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper fume] TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: fumes.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: fumes.</li> <li>TWA 8 hours: 1 mg/m<sup>3</sup>. Form: dusts.</li> <li>ACGIH TLV (United States, 7/2023) [copper dusts and mists.</li> <li>ACGIH TLV (United States, 7/2023) [copper fume] TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Dusts and mists.</li> <li>ACGIH TLV (United States, 7/2023) [copper fume] TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Fume.</li> </ul>
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	ACGIH TLV (United States) TWA: 10 mg/m <sup>3</sup> . Form: Total dust. TWA: 3 mg/m <sup>3</sup> . Form: Respirable.

SIGMA SAILADVANCE DX REDBROWN         Rylene       DOL BEI (South Africa, 3/2021) [sylenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Samy end of shift.         ethylbenzene       DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinines, sum of mandelic acid and phenylig acid [in urine]. Sampling time: end of shift.         Recommended monitoring procedures       Reference should be made to monitoring standards, such as the following: Et Standard EN 680 (Workplace almospheres - Guidance for the assessment of by inhalation to chemical agents for comparison with limit values and measure strategy]. European Standard EN 4422 (Workplace atmospheres - Guid or application and use of procedures for the assessment of exposure to chemical agents). Reference to national guidance documents for methods for the deter of hazardous substances will also be required.         8.2 Exposure controls controls       Use only with adequate ventilation. Use process enclosures, local exhaust ve other engineering controls to keep worker exposure to airborne contaminants recommended or statutory limits. The engineering controls also need to keep vapour or dust concentrations below any lower explosive limits. Use explosive controls         Individual protection measures       : Wash hands, forearms and face thoroughy after handling chemical products, eating, smoking and using below any lower explosive limits. Use explosive contaminated cibring before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.         Eyer/face protection       : Chemical-resistant, impervious gloves complying with an approved standard s wom at all times when handling chemical moducts. Contaminated cibring betor reusing. Ensure that eyewash stations and safe showers are cl	ober 2024	: 14 October	Date of issue/Date of revision		: 00393266	Code :
BEI: 1.5 g/g creatinine, methylhippuric acid (in urine). Sample of shift.           ethylbenzene         DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylg acid (in urine). Sampling time: end of shift.           Recommended monitoring procedures         Feference should be made to monitoring standards, such as the following: Et Standard EN 680 (Workplace atmospheres - Guidance for the assessment of pological agents): European Standard EN 14042 (Workplace atmospheres - Guidance or application on duse of procedures for the assessment of exposure to chemica biological agents): European Standard EN 482 (Workplace atmospheres - Ge requirements for the performance of procedures for the measurement of chen agents). Reference to national guidance documents for methods for the deten of hazardous substances will also be required.           8.2 Exposure controls Appropriate engineering controls         : Use only with adequate ventilation. Use process enclosures, local exhaust ve other engineering controls to keep worker exposure to airborne contaminants recommended or statutory limits. The engineering controls allo need to keep vapour of dust concentrations below any lower explosive limits. Use explosio vapour of dust concentrations below any lower explosive limits. Use explosion were allower are close to the worksitation location.           Eye/face protection         : Chemical splash gog/les and face shifting should not be allowed out of the workplace. Was contaminated dust philing should not be allowed out of the workplace. Was contaminated out of thing should not be allowed out of the workplace. Was contaminated out of thing should not be allowed out of the workplace. Was contaminated out of thing should not be allowed out of the workplace. Was contaminated splash gog/les and face shield.	-	-		DBR		
BEI: 0.15 g/g creatinine, sum of mandelis caid and phenyls acid [in urine]. Sampling time: end of shift.         Recommended monitoring       # Efference should be made to monitoring standards, such as the following: Existence of procedures and the satessment of by inhalation to chemical agents for comparison with limit values and measure strategy) European Standard EN 14042 (Workplace atmospheres - Guide for opplication and use of procedures for the assessment of exposure to chemica biological agents). European Standard EN 482 (Workplace atmospheres - Guide for agents). Reference to national guidance documents for methods for the detern of hazardous substances will also be require atmospheres - Guide for the agents. Reference to national guidance documents for methods for the detern of hazardous substances will also be required.         8.2 Exposure controls       Appropriate engineering controls to keep worker exposure to airborne contaminants recommended or statutory limits. The engineering controls also need to keep vapour or dust concentrations below any lower explosive limits. Use explosion ventilation equipment.         Individual protection measures       • Wash hands, forearms and face thoroughly after handling chemical products, eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated dot used to the work potential.         Eyeface protection       • Chemical splash goggles and face shield.         Skin protection       • Chemical splash goggles and face shield.         Bin protection       • Chemical splash goggles and face shield.         Bin protection       • Chemical probust and proproducts if a risk assessment indica mecessary. Consi	mpling time:	[in urine]. Samplir	1.5 g/g creatinine, methylhippuric acid			xylene
proceduresStandard EN 689 (Workplace atmospheres - Guidance for the assessment of by inhalation to chemical agents for comparison with limit values and measure strategy) European Standard EN 14042 (Workplace atmospheres - Guide for application and use of procedures for the assessment of exposure to chemica algostration and use of procedures for the measurement of chem agents) European Standard EN 482 (Workplace atmospheres - Guide for application and use of procedures for the measurement of chem agents) Reference to national guidance documents for methods for the deter of hazardous substances will also be required.8.2 Exposure controlsI Use only with adequate ventilation. Use process enclosures, local exhaust ve other engineering controls to keep worker exposure to airborne contaminants recommended or statutory limits. The engineering controls also need to keep vapour or dust concentrations below any lower explosive limits. Use explosion ventilation equipment.Individual protection measuresI Wash hands, forearms and face thoroughly after handling chemical products, eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated of Contaminated work clothing should not be allowed out of the workiplace. Was contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.Eyeface protection Skin protection: Chemical-resistant, impervious gloves complying with an approved standard s worm at all times when handling chemical products if a risk assessment indica necessary. Considering the parameters specified by the protectino class of 6 (preakthrough time greater than 480 minutes according to EN 374) is recomm Worn only brief contact is expected, a glove with a protection class of 6 	ylglyoxylic	cid and phenylglyd	0.15 g/g creatinine, sum of mandelic		ene	ethylbenzene
Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ve other engineering controls to keep worker exposure to airborne contaminants recommended or statutory limits. The engineering controls also need to keep vapour or dust concentrations below any lower explosive limits. Use explosion ventilation equipment.Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clo Contaminated work clothing should not be allowed out of the working period. Appropriate techniques should be used to remove potentially contaminated clo Contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.Eye/face protection Skin protection: Chemical splash goggles and face shield.Hand protection Hand protection: Chemical-resistant, impervious gloves complying with an approved standard s worm at all times when handling chemical products if a risk assessment indica necessary. Considering the parameters specified by the glove manufacturer, during use that the gloves are still retaining their protective properties. It shou noted that the most appropriate and takes into according to EN 374) is recomm When only brief contact may occur, a glove with a protection class of 2 or hig (breakthrough time greater than 480 minutes according to EN 374) is recomm When only brief contact is expected, a glove with a protection class of 2 or hig (breakthrough time greater than 30 minutes according to EN 374) is recomm When only brief contact is expected, a glove with a protection class of 2 or hig (breakthrough time greater than 480 minutes according to E	of exposure urement or the cal and General emical	assessment of ex es and measureme eres - Guide for the sure to chemical a nospheres - Gene urement of chemic	place atmospheres - Guidance for the agents for comparison with limit value ndard EN 14042 (Workplace atmosphere rocedures for the assessment of experience pean Standard EN 482 (Workplace at formance of procedures for the meas ational guidance documents for method	S by st aj bi re ag		
Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ve other engineering controls to keep worker exposure to airborne contaminants recommended or statutory limits. The engineering controls also need to keep vapour or dust concentrations below any lower explosive limits. Use explosion ventilation equipment.Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clo Contaminated work clothing should not be allowed out of the working period. Appropriate techniques should be used to remove potentially contaminated clo Contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.Eye/face protection Skin protection: Chemical splash goggles and face shield.Hand protection Hand protection: Chemical-resistant, impervious gloves complying with an approved standard s worn at all times when handling chemical products if a risk assessment indica necessary. Considering the parameters specified by the glove manufacturer, during use that the gloves are still retaining their protective properties. It shou noted that the most appropriate and takes into according to EN 374) is recomm When only brief contact image reater than 480 minutes according to EN 374) is recomm When only brief contact may occur, a glove with a protection class of 2 or hig (breakthrough time greater than 30 minutes according to EN 374) is recomm When only brief contact is expected, a glove with a protection class of 2 or hig (breakthrough time greater than 480 minutes according to EN 374) is recomm When only brief contact is sinvolved and should be sel					ire controls	8.2 Exposure
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<ul> <li>eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated of Contaminated cothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.</li> <li>Eye/face protection</li> <li>Chemical splash goggles and face shield.</li> <li>Chemical-resistant, impervious gloves complying with an approved standard s worn at all times when handling chemical products if a risk assessment indica necessary. Considering the parameters specified by the glove manufacturer, during use that the gloves are still retaining their protective properties. It shou noted that the time to breakthrough for any glove material may be different for glove manufacturers. In the case of mixtures, consisting of several substance protection time of the gloves cannot be accurately estimated. When prolonge frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 30 minutes according to EN 374) is recomme When only brief contact is expected, a glove with a protection class of 2 or hig (breakthrough time greater than 30 minutes according to EN 374) is recomme The user must check that the final choice of type of glove selected for handling product is the most appropriate and takes into account the particular condition as included in the user's risk assessment.</li> <li>Gloves</li> <li>butyl rubber</li> <li>Personal protective equipment for the body should be selected based on the t performed and the risks involved and should be approved by a specialist befor handling this product. When there is a risk of ignition from static discharges, c should include anti-static overalls, boots and gloves. Refer to European Stanc 1149 for further information on material and design requirements and test met 149 for further information on material and design requirements and test met</li> </ul>				res	protection measu	Individual pro
Skin protectionHand protectionHand protection: Chemical-resistant, impervious gloves complying with an approved standard is worn at all times when handling chemical products if a risk assessment indica necessary. Considering the parameters specified by the glove manufacturer, during use that the gloves are still retaining their protective properties. It shou noted that the time to breakthrough for any glove material may be different for glove manufacturers. In the case of mixtures, consisting of several substance protection time of the gloves cannot be accurately estimated. When prolonge frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recomme When only brief contact is expected, a glove with a protection class of 2 or hig (breakthrough time greater than 30 minutes according to EN 374) is recomme The user must check that the final choice of type of glove selected for handling product is the most appropriate and takes into account the particular condition as included in the user's risk assessment.Gloves: butyl rubberBody protection: Personal protective equipment for the body should be selected based on the to performed and the risks involved and should be approved by a specialist befor handling this product. When there is a risk of ignition from static electricity, we static protective clothing. For the greatest protection from static discharges, c should include anti-static overalls, boots and gloves. Refer to European Stand 1149 for further information on material and design requirements and test med Appropriate footwear and any additional skin protection measures should be approved and should be approved and should be approved by a specialist befor handling this product. When there is a risk of ignition from sta	clothing. ash	orking period. ontaminated cloth orkplace. Wash	ng the lavatory and at the end of the v should be used to remove potentially hing should not be allowed out of the efore reusing. Ensure that eyewash	ea A C co	measures	Hygiene me
<ul> <li>worn at all times when handling chemical products if a risk assessment indica necessary. Considering the parameters specified by the glove manufacturer, during use that the gloves are still retaining their protective properties. It shou noted that the time to breakthrough for any glove material may be different for glove manufacturers. In the case of mixtures, consisting of several substance protection time of the gloves cannot be accurately estimated. When prolonge frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recomme When only brief contact is expected, a glove with a protection class of 2 or hig (breakthrough time greater than 30 minutes according to EN 374) is recomme The user must check that the final choice of type of glove selected for handling product is the most appropriate and takes into account the particular condition as included in the user's risk assessment.</li> <li>Gloves : butyl rubber : butyl rubber</li> <li>Body protection : Personal protective equipment for the body should be selected based on the tractic protective clothing. For the greatest protection from static discharges, or should include anti-static overalls, boots and gloves. Refer to European Stance 1149 for further information on material and design requirements and test met for further information on material and design requirements and test met for 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 discharges, or should include anti-static overalls, boots and gloves. Refer to European Stance 1149 for further information on material and design requirements and test met appropriate footwear and any additional skin protection measures should be approved by a specialist before handling this product. When there is a risk of ignition from static discharges, or should include anti-static overalls, boots and glo</li></ul>			s and face shield.	: C	-	
<ul> <li>Body protection</li> <li>Personal protective equipment for the body should be selected based on the taperformed 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, we static protective clothing. For the greatest protection from static discharges, c should include anti-static overalls, boots and gloves. Refer to European Stand 1149 for further information on material and design requirements and test met Appropriate footwear and any additional skin protection measures should be specified on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the</li></ul>	cates this is r, check ould be for different ces, the ged or mended. nigher nended. ling this	essment indicates manufacturer, ch perties. It should be different for dif veral substances, When prolonged c on class of 6 374) is recommen class of 2 or highe 74) is recommend cted for handling th	andling chemical products if a risk as the parameters specified by the glov es are still retaining their protective pr eakthrough for any glove material man the case of mixtures, consisting of s oves cannot be accurately estimated. tact may occur, a glove with a protect ater than 480 minutes according to EN is expected, a glove with a protection at the final choice of type of glove sele ropriate and takes into account the pa	w ne gl pr fre (b W (b T I pr	rotection	Hand prote
Other skin protectionperformed 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, we static protective clothing. For the greatest protection from static discharges, c should include anti-static overalls, boots and gloves. Refer to European Static 1149 for further information on material and design requirements and test met Appropriate footwear and any additional skin protection measures should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the task being performed and the risks involved and should be approximated on the				: bı		Gloves
based on the task being performed and the risks involved and should be appro	fore wear anti- , clothing andard EN	specialist before tic electricity, wear ic discharges, clot European Standar	involved and should be approved by When there is a risk of ignition from sta . For the greatest protection from sta c overalls, boots and gloves. Refer to	pe ha st sł	rotection	Body prote
			performed and the risks involved and	ba	kin protection	Other skin
Respiratory protection :				:	ory protection	Respiratory
English (GB) United Arab Emirates	10/19	\$ 1	glish (GB) United Arab Emirate			

Conforms to Regulation (EC) No. 2020/878	o. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
Code : 00393266	Date of issue/Date of revision : 14 October 2024
SIGMA SAILADVANCE DX RED	BROWN
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.
<b>SECTION 9: Physical a</b>	and chemical properties
The conditions of measurement of	of all properties are at standard temperature and pressure unless otherwise indicated.
9.1 Information on basic physic	cal and chemical properties
Appearance	
Physical state	: Liquid.
Colour	: Brownish-red.
Odour	
	: Characteristic.
Odour threshold	: Not available.
Odour threshold	: Not available.

Upper/lower flammability or : Not available.

Flash point Auto-ignition temperature

explosive limits

: Closed cup: 21°C

:	Ingredient name	°C	°F	Method
	wiene	432	809.6	

Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).
рН	: Not applicable. insoluble in water.
Viscosity	: Øynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm<sup>2</sup>/s

Solubility(ies) :	
Media	Result
	Not soluble

Partition coefficient: n-octanol/	:	Not applicable
water		

:		Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	e mm Hg	kPa	Method	mm Hg	kPa	Method	
ethylbenzene	9.30076	1.2					

Relative density Explosive properties

Vapour pressure

: 1.72

: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

Oxidising properties <u>Particle characteristics</u> Median particle size : Product does not present an oxidizing hazard.

: Not applicable.

#### 9.2 Other information

No additional information.

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: 14 October 2024

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and reactivit	:V
/	and reactivit

10.1 Reactivity	1	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
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	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists		5	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
bis(1-hydroxy-1H-pyridine-2-thionato-O,S)	LC50 Inhalation Dusts and	Rat	70 mg/m <sup>3</sup>	4 hours
copper	mists		5	
	LD50 Oral	Rat	1075 mg/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and	Rat	10 to 16 mg/l	4 hours
,	mists		0	
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
4,5-dichloro-2-octyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and	Rat	0.16 mg/l	4 hours
, <b>,</b>	mists		Ū	
	LD50 Dermal	Rabbit	3.9 g/kg	-
	LD50 Oral	Rat	567 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists		5	
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-1-amide)	mists		Ū	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
octhilinone (ISO)	LC50 Inhalation Dusts and	Rat	0.27 mg/l	4 hours
	I			
	English (GB) U	Jnited Arab E	mirates	12/19

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 SECTION 11: Toxicological information
 Imists
 Imists

	mists LD50 Derm LD50 Oral	al		Rab Rat	bit	311 mg/ł 125 mg/ł		-
Conclusion/Summary : There Irritation/Corrosion	are no data avail	able on the	mixture	e itself				
Product/ingredient name	Res	sult	Spec	cies	Score	Exp	osure	Observation
kýlene	Skin - Moder	rate irritant	Rabbit		-	24 hours		-
Conclusion/Summary								
•	are no data availa	able on the n	nixture	itself.				
Eyes : There a	are no data availa	able on the n	nixture	itself.				
Respiratory : There	are no data availa	able on the n	nixture	itself.				
<u>Sensitisation</u>								
Product/ingredient name	e	Route exposi			Spec	ies	F	Result
octhilinone (ISO)		skin		Mou	se		Sensitisi	ng
Conclusion/Summary		1		1			1	
Skin : There	are no data avail	able on the	mixture	e itself				
Respiratory : There	are no data avail	able on the	mixture	e itself	-			
Mutagenicity								
Conclusion/Summary : There	are no data avail	able on the	mixture	e itself	-			
<u>Carcinogenicity</u>								
	are no data avail	able on the	mixture	e itself	-			
Reproductive toxicity								
•	are no data avail	able on the	mixture	e itself	-			
Teratogenicity	are no data avail	able on the	mixturo	itaalf				
Conclusion/Summary : There Specific target organ toxicity (single			mixture	e nsen	•			
Product/ingredient na		Categ		R	oute of	1		
r roudeningreatent na		Oute			oute of		Target	organs
xvlene				e	xposure		Target	organs
Aliciic		Catego		<b>e</b> : -	xposure			organs
tetraethyl silicate		Catego	ory 3 ory 3		xposure	Res Res	piratory tr piratory tr	act irritation
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one			ory 3 ory 3		xposure	Res Res	piratory tr piratory tr	act irritation
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one <u>Specific target organ toxicity (repeate</u>	<u>ed exposure)</u>	Catego Catego	ory 3 ory 3 ory 3	-		Res Res Res	piratory tr piratory tr piratory tr	ract irritation ract irritation ract irritation
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one <u>Specific target organ toxicity (repeate</u> <u>Product/ingredient na</u>	<u>ed exposure)</u>	Catego Catego Catego	ory 3 ory 3 ory 3 ory 3	- - -	xposure Route of exposure	Res Res Res	piratory tr piratory tr piratory tr <b>Target</b>	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one <u>Specific target organ toxicity (repeate</u> <u>Product/ingredient na</u>	<u>ed exposure)</u>	Catego Catego	ory 3 ory 3 ory 3 ory 3	- - -	Route of	Res Res Res	piratory tr piratory tr piratory tr	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one <u>Specific target organ toxicity (repeate</u> <u>Product/ingredient na</u> ethylbenzene	<u>ed exposure)</u>	Catego Catego Catego	ory 3 ory 3 ory 3 ory 3	- - - F G	Route of	Res Res Res	piratory tr piratory tr piratory tr <b>Target</b>	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one <u>Specific target organ toxicity (repeate</u> <u>Product/ingredient na</u> ethylbenzene	ed exposure) ime	Catego Catego Catego	ory 3 ory 3 ory 3 ory 3	- - - F G	Route of	Res Res Res	piratory tr piratory tr piratory tr <b>Target</b> ring orgar	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one Specific target organ toxicity (repeate Product/ingredient na ethylbenzene Aspiration hazard Product/ingredient	ed exposure) ime	Catego Catego Catego	ory 3 ory 3 ory 3 ory 3 ory 2 ory 2	- - - - - RATIC	Route of exposure	Res Res Res hea	piratory tr piratory tr piratory tr Target ring orgar t egory 1	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one Specific target organ toxicity (repeate Product/ingredient na ethylbenzene Aspiration hazard Product/ingredient xylene ethylbenzene Information on likely : Not av	ed exposure) ime i name	Catego Catego Catego	ory 3 ory 3 ory 3 ory 3 ory 2 ory 2	- - - - - RATIC	Route of exposure	Res Res Res hea Resul RB - Cate	piratory tr piratory tr piratory tr Target ring orgar t egory 1	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one Specific target organ toxicity (repeate Product/ingredient na ethylbenzene Aspiration hazard Product/ingredient xylene ethylbenzene Information on likely : Not av routes of exposure	ed exposure) ime i name	Catego Catego Catego	ory 3 ory 3 ory 3 ory 3 ory 2 ory 2	- - - - - RATIC	Route of exposure	Res Res Res hea Resul RB - Cate	piratory tr piratory tr piratory tr Target ring orgar t egory 1	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one Specific target organ toxicity (repeate Product/ingredient na ethylbenzene Aspiration hazard Product/ingredient xylene ethylbenzene Information on likely : Not av routes of exposure Potential acute health effects	ed exposure) ime i name	Catego Catego Catego	ory 3 ory 3 ory 3 ory 3 ory 2 ory 2	- - - - - RATIC	Route of exposure	Res Res Res hea Resul RB - Cate	piratory tr piratory tr piratory tr Target ring orgar t egory 1	ract irritation ract irritation ract irritation organs
tetraethyl silicate 4,5-dichloro-2-octyl-2H-isothiazol-3-one Specific target organ toxicity (repeate Product/ingredient na ethylbenzene Aspiration hazard Product/ingredient xylene ethylbenzene Information on likely : Not av routes of exposure Potential acute health effects Inhalation : Harmf	ed exposure) ime t name vailable.	Catego Catego Catego	ory 3 ory 3 ory 3 ory 2 ory 2 ASPIR	- - - - - RATIC	Route of exposure	Res Res Res hea Resul RB - Cate	piratory tr piratory tr piratory tr Target ring orgar t egory 1	ract irritation ract irritation ract irritation organs

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## **SECTION 11: Toxicological information**

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 p	hysical, 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 immediate eff	ects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	Not available.
Potential chronic health eff	f <u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	<ul> <li>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.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.
Prolonged or repeated conta	ct 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	Exposur
dícopper oxide	LC50 0.003 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Acute EC50 267.368 µg/l	Algae - Nitzschia	96 hours
	Marine water	pungens	
	Acute LC50 0.318 mg/l	Crustaceans -	48 hours
	Marine water	Artemia sp.	
	Acute LC50 0.0027 mg/l	Fish	96 hours
	Fresh water		
	Chronic NOEC 19.789 µg/l	Algae - Nitzschia	96 hours
	Marine water	pungens	
	Chronic NOEC 0.00056 mg/l	Fish	97 days
	Fresh water		
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i>	21 days
		<i>magna</i> - Neonate	
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-	Acute EC50 29 to 43 mg/l	Algae -	72 hours
1-amide)		Pseudokirchneriella	
		subcapitata	
	Acute EC50 94 mg/l	Daphnia - <i>Daphnia</i>	48 hours
		magna	

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	79 % - Readily - 10 days 63 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
₩ylene ethylbenzene N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	- -	- -	Readily Readily Readily

**12.3 Bioaccumulative potential** 

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## **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> lene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
rosin	1.9 to 7.7	-	High
tetraethyl silicate	3.18	-	Low
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	>6	-	High
octhilinone (ISO)	2.45	-	Low

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

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **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>Jue (EWC)</u>
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
08 01 11* Packaging	waste paint and varnish containing organic solvents or other hazardous substances
	<ul> <li>waste paint and varnish containing organic solvents or other hazardous substances</li> <li>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.</li> </ul>
Packaging	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when</li> </ul>

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878					
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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.
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## **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	11	11	П
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	<b>∢d</b> icopper 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	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>

**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: Regul	-
Annex XVII - Restrictions on the manufacture,	: Not applicable.
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 substan	
Not listed.	
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.
SECTION 16: Other	information
Indicates information that	has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
Full text of abbreviated H	RRN = REACH Registration Number :
statements	H226 Flammable liquid and vapour.
	H301 Toxic if swallowed.
	<ul><li>H302 Harmful if swallowed.</li><li>H304 May be fatal if swallowed and enters airways.</li></ul>
	H311 Toxic in contact with skin.
	H312 Harmful in contact with skin.
	H314 Causes severe skin burns and eye damage. H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation. H330 Fatal if inhaled.
	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
	<ul><li>H373 May cause damage to organs through prolonged or repeated exposure.</li><li>H400 Very toxic to aquatic life.</li></ul>
	H410 Very toxic to aquatic life with long lasting effects.
	H412 Harmful to aquatic life with long lasting effects.
	EUH071 Corrosive to the respiratory tract.
Full text of classifications [CLP/GHS]	Acute Tox. 2     ACUTE TOXICITY - Category 2     Acute Tox. 3     ACUTE TOXICITY - Category 3
	Acute Tox. 4 ACUTE TOXICITY - Category 4
	Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
	Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
	Asp. Tox. 1 ASPIRATION HAZARD - Category 1
	Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
	Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 2
	Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
	Skin Corr. 1 SKIN CORROSION/IRRITATION - Category 1
	Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

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<b>SECTION 16: Oth</b>	ner information					
	Skin Sens. 1	SKIN SENSITISATION - Category 1				
	Skin Sens. 1A	SKIN SENSITISATION - Category 1A				
	Skin Sens. 1B	SKIN SENSITISATION - Category 1B				
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2				
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3				
<u>History</u>						
Date of issue/ Date of revision	: 14 October 2024					
Date of previous issue	: 22 May 2022					
Prepared by	: EHS					
Version	: 5.01					

#### **Disclaimer**

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