SAFETY DATA SHEET



Mare Nostrum SP

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

1.1 Product identifier	
Product name	: Mare Nostrum SP
Product code	: 8080
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use in coatings - Consumer use: Apply this product only as specified on the label. Use in coatings - Professional use

1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no	Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England
	Tel: +44 17 24 40 00 00
	Fax: +44 17 24 40 01 00
1.4 Emergency telephone number	
National advisory body/Poison Centre	
Telephone number: Contact NH	HS Direct; phone 0845 4647 or 111. Open 24/7.
Supplier	

Telephone number : +47 33 45 70 00 Jotun Norway (head office)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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

1/19

SECTION 2: Hazards identification

Hazard pictograms	:	
Signal word	:	Danger.
Hazard statements	:	 H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements		
General	:	P102 - Keep out of reach of children.
Prevention	:	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	:	 P391 - Collect spillage. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	1	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	1	Not applicable.
Additional information	:	Antifouling. Active substances: dicopper oxide (CAS 1317-39-1) 19.1 % w/w. Do not reuse empty containers.
Additional information		HSE No. 9110.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem		
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
dícopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥10 - <25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1,	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2	≥10 - ≤25	H410 (M=10) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
hydrocarbons, C9, aromatics	Index: 030-013-00-7 REACH #: 01-2119455851-35 EC: 918-688-5 CAS: 64742-95-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
colophony	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≤10	Skin Sens. 1, H317	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	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	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
			the full text of the H statements declared above.	

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

SECTION 3: Composition/information on ingredients

[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.

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	 Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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

Over-exposure signs/symp	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SECTION 4: First aid measures Ingestion : Adverse symptoms may include the following: stomach pains 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with

long lasting effects. Fire water contaminated with this material must be contained

	and prev	rented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	carbon c carbon r	osition products may include the following materials: lioxide nonoxide ide/oxides

5.3 Advice for firefighters Special protective actions 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Date of issue/Date of revision	:05.04.2024	Date of previous issue	: 28.08.2023	
--------------------------------	-------------	------------------------	--------------	--

SECTION 6: Accid	ental release measures
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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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 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.

Seveso Directive - Reporting thresholds

Danger criteria		
Category	Notification and MAPP threshold	Safety report threshold
P5c E1	5000 tonne 100 tonne	50000 tonne 200 tonne

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s) Recommendations : Not available.		•	0 0		
Recommendations : Not available.	7.3 Specific end use(s)				
	Recommendations	:	Not available.		

Date of issue/Date of revision	:05.04.2024	Date of previous issue	: 28.08.2023	Version : 2	6/19
--------------------------------	-------------	------------------------	--------------	-------------	------

SECTION 7: Handling and storage

Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
dicopper oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and compounds]
	STEL: 2 mg/m ³ , (as Cu) 15 minutes. Form: Dusts and Mists
	TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dusts and Mists
colophony	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 0.15 mg/m ³ 15 minutes. Form: Fume
	TWA: 0.05 mg/m ³ 8 hours. Form: Fume
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes. TWA: 274 mg/m³ 8 hours.
	TWA: 274 mg/m o hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices	
x ylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.	
procedures national guid	d monitoring : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	

DNELs/DMELs

7/19

SECTION 8: Exposure controls/personal protection **Product/ingredient name Population** Type **Exposure** Value Effects dicopper oxide DNEL Long term 1 mg/m³ Workers Local Inhalation DNEL Long term 1 mg/m³ Workers Systemic Inhalation Workers Systemic DNEL Long term Dermal 137 mg/kg bw/day 0.041 mg/ DNEL Long term Oral General Systemic population kg bw/day DNEL Short term Oral 0.082 mg/ General Systemic kg bw/day population 83 mg/kg Workers zinc oxide DNEL Long term Dermal Systemic bw/day 5 mg/m³ DNEL Long term Workers Systemic Inhalation DNEL Long term Dermal 83 mg/kg General Systemic bw/day population [Consumers] DNEL Long term 2.5 mg/m³ General Systemic Inhalation population [Consumers] DNEL Long term Oral 0.83 mg/ General Systemic kg bw/day population [Consumers] hydrocarbons, C9, aromatics DNEL Long term Dermal 12.5 mg/ Workers Systemic kg bw/day 151 mg/m³ DNEL Long term Workers Systemic Inhalation DNEL Long term Dermal 7.5 mg/kg Systemic General bw/day population [Consumers] DNEL Long term General 32 mg/m³ Systemic Inhalation population [Consumers] DNEL Long term Oral 7.5 mg/kg General Systemic bw/day population [Consumers] DNEL Long term 0.41 mg/m General Systemic Inhalation population DNEL Long term 1.9 mg/m³ Workers Systemic Inhalation DNEL Long term 178.57 mg General Local population Inhalation m³ DNEL Short term 640 mg/m³ General Local Inhalation population DNEL Workers Long term 837.5 mg/ Local Inhalation m³ DNEL Short term 1066.67 Workers Local Inhalation mg/m³ DNEL Short term 1152 mg/ General Systemic population Inhalation m³ DNEL Short term 1286.4 mg/ Workers Systemic Inhalation m³ colophony DNEL Long term Dermal 25 mg/kg Workers Systemic bw/day 176 mg/m³ DNEL Long term Workers Systemic Inhalation DNEL 15 mg/kg Long term Dermal General Systemic bw/day population [Consumers] DNEL Long term 52 mg/m³ General Systemic Inhalation population [Consumers]

	DNEL	Long term Oral	15 mg/kg	General	Systemic
			bw/day	population [Consumers]	
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General	Local
	DNEL	Long term	65.3 mg/m³	population General	Systemic
	DNEL	Inhalation Long term Dermal	125 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 212 mg/kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
2-methoxy-1-methylethyl acetate	DNEL	Long term Dermal	153.5 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	54.8 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	33 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	1.67 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	550 mg/m ³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic

SECTION 8: Exposure controls/personal protection

	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Systemic

PNECs

zinc oxide Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Wat Soil Fresh wat Marine wa Soil Fresh wat Marine wat Soil Fresh wat	reatment5.2 µg/l 230 µg/ler sediment ter sediment87 mg/kg dw 676 mg/kg dw 65 mg/kg dw 20.6 µg/l 6.1 µg/ler20.6 µg/l 6.1 µg/lreatment52 µg/lreatment52 µg/ler sediment ter sediment117.8 mg/kg dw 35.6 mg/kg dw 0.0054 mg/ler0.0054 mg/lout0.0054 mg/l0.00054 mg/l0.002 mg/kg dw 0.0015 mg/kger0.327 mg/l0.327 mg/l0.327 mg/l	wt - t - - - dwt - iwt - iwt - iwt - - iwt - - iwt - - iwt - - iwt - - - - - - - - - - - - - -
Sewage T Plant Fresh wat Marine wa Soilzinc oxideFresh wat Marine Sewage T Plant Fresh wat Marine wa SoilcolophonyFresh wat Marine wa Soil Fresh wat	5.2 µg/lreatment5.2 µg/l230 µg/l230 µg/ler sediment87 mg/kg dwter sediment676 mg/kg dwer20.6 µg/l6.1 µg/l52 µg/lreatment52 µg/lter sediment117.8 mg/kgter sediment56.5 mg/kg dout0.0054 mg/lout0.0054 mg/l0.00054 mg/l0.002 mg/kgout0.02 mg/kgout0.327 mg/lout0.327 mg/lout6.58 mg/l	wt - t - - - dwt - iwt - iwt - iwt - - iwt - - iwt - - iwt - - iwt - - - - - - - - - - - - - -
PlantFresh wat Marine wa Soilzinc oxideFresh wat MarineSewage T PlantPlantFresh wat Marine wa SoilcolophonyFresh wat MarinecolophonyFresh wat Marinesewage T PlantPlant Fresh wat MarineSewage T Plant Fresh wat Marinexylene2-methoxy-1-methylethyl acetate2-methoxy-1-methylethyl acetateFresh wat Marine wa SoilSoil Fresh wat MarineSewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat	reatment 230 µg/l er sediment ter sediment 676 mg/kg dw 65 mg/kg dw 65 mg/kg dw 20.6 µg/l 6.1 µg/l 52 µg/l 117.8 mg/kg d 56.5 mg/kg d 35.6 mg/kg d 35.6 mg/kg d 0.0054 mg/l 0.00054 mg/l 0.00054 mg/l 0.00054 mg/l 0.00054 mg/l 0.00054 mg/l 0.0015 mg/kg 0.327 mg/l 0.327 mg/l 6.58 mg/l	wt - t - - - dwt - iwt - iwt - iwt - - iwt - - iwt - - iwt - - iwt - - - - - - - - - - - - - -
PlantFresh wat Marine wa Soilzinc oxideFresh wat MarineSewage T PlantPlantFresh wat Marine wa SoilcolophonyFresh wat MarinecolophonyFresh wat Marinesewage T PlantPlant Fresh wat MarineSewage T Plant Fresh wat Marinexylene2-methoxy-1-methylethyl acetate2-methoxy-1-methylethyl acetateFresh wat Marine wa SoilSoil Fresh wat MarineSewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat	er sediment ter sediment $87 \text{ mg/kg} dw$ $676 \text{ mg/kg} dw$ $65 \text{ mg/kg} dw$ $20.6 \mug/l$ $6.1 \mug/l$ $52 \mug/l$ reatment $52 \mug/l$ $6.1 \mug/l$ reatment $52 \mug/l$ $5.5 mg/kg dw$ $35.6 mg/kg dw$ $35.6 mg/kg dw$ $0.0054 mg/l$ $0.00054 mg/l$ reatment $0.02 mg/kg dw$ $0.0015 mg/kg$ $0.327 mg/l$ $0.327 mg/l$ reatment $0.327 mg/l$	wt - t - - - dwt - iwt - iwt - iwt - - iwt - - iwt - - iwt - - iwt - - - - - - - - - - - - - -
zinc oxide Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat	ter sediment 676 mg/kg dw ter sediment 65 mg/kg dw er 20.6 µg/l fer sediment 6.1 µg/l ter sediment 52 µg/l ter sediment 117.8 mg/kg dw ter sediment 56.5 mg/kg dw ter sediment 0.0054 mg/l ter sediment 0.00054 mg/l ter sediment 0.002 mg/kg d ter sediment 0.002 mg/kg d ter sediment 0.002 mg/kg d 0.327 mg/l 0.327 mg/l 6.58 mg/l 6.58 mg/l	wt - t - - - dwt - iwt - iwt - iwt - - iwt - - iwt - - iwt - - dwt - - - - - - - - - - - - - -
zinc oxide Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat	ter sediment 676 mg/kg dw ter sediment 65 mg/kg dw er 20.6 µg/l fer sediment 6.1 µg/l ter sediment 52 µg/l ter sediment 117.8 mg/kg dw ter sediment 56.5 mg/kg dw ter sediment 0.0054 mg/l ter sediment 0.00054 mg/l ter sediment 0.002 mg/kg d ter sediment 0.002 mg/kg d ter sediment 0.002 mg/kg d 0.327 mg/l 0.327 mg/l 6.58 mg/l 6.58 mg/l	wt - t - - - dwt - iwt - iwt - iwt - - iwt - - iwt - - iwt - - dwt - - - - - - - - - - - - - -
zinc oxide Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Wa Soil Fresh wat	65 mg/kg dw er 20.6 µg/l freatment 52 µg/l reatment 52 µg/l er sediment 117.8 mg/kg ter sediment 56.5 mg/kg du ter sediment 0.0054 mg/l er sediment 0.00054 mg/l ter sediment 0.002 mg/kg du ter sediment 0.002 mg/kg du ter sediment 0.002 mg/kg du ter sediment 0.022 mg/kg du 0.327 mg/l 0.327 mg/l 0.327 mg/l 6.58 mg/l	t - - - dwt - lwt - lwt - lwt - lwt - g dwt - g dwt - - - - - -
zinc oxide Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Xylene Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Sewage T Plant Fresh wat Marine wa Soil Fresh wat	er 20.6 µg/l freatment 52 µg/l reatment 52 µg/l er sediment 117.8 mg/kg ter sediment 56.5 mg/kg d ser 0.0054 mg/l or sediment 0.0054 mg/l reatment 0.00054 mg/l er sediment 0.00054 mg/l of sediment 0.002 mg/kg d ter sediment 0.002 mg/kg d 0.0015 mg/kg 0.327 mg/l of setment 6.58 mg/l	- - - - - - - - - - - - - - - - - - -
Marine Sewage T Plant Fresh wat Marine wa SoilcolophonyFresh wat Marine wa SoilcolophonyFresh wat Marine Sewage T Plant Fresh wat Marine wa SoilxyleneFresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat	reatment6.1 µg/lreatment52 µg/ler sediment117.8 mg/kgter sediment56.5 mg/kg d35.6 mg/kg d0.0054 mg/ler0.00054 mg/l0.00054 mg/l0.00054 mg/lter sediment0.02 mg/kg dter sediment0.002 mg/kg dter sediment0.02 mg/kg d0.327 mg/l0.327 mg/l6.58 mg/l0.58 mg/l	iwt - iwt - iwt - iwt - iwt - iwt - g dwt - g dwt - i i i i i i i i i i i i i i i i i i i
Sewage T Plant Fresh wat Marine wa SoilcolophonyFresh wat Marine wa SoilcolophonyFresh wat Marine Sewage T Plant Fresh wat Marine wa SoilxyleneFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil2-methoxy-1-methylethyl acetateFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat	reatment 52 µg/l er sediment ter sediment 55.5 mg/kg d 56.5 mg/kg d 35.6 mg/kg d 0.0054 mg/l 0.00054 mg/l 0.0005 mg/kg d 0.00055 mg/kg	iwt - iwt - iwt - iwt - iwt - iwt - g dwt - g dwt - i i i i i i i i i i i i i i i i i i i
PlantFresh watMarine waSoilFresh watMarineSewage TPlantFresh watMarineSoilethylbenzeneFresh wat	er sediment ter sediment er sediment er sediment reatment ter sediment ter sediment	iwt - iwt - iwt - iwt - iwt - iwt - g dwt - g dwt - i i i i i i i i i i i i i i i i i i i
colophonyFresh wat Marine wa SoilcolophonyFresh wat MarineSewage T PlantPlantFresh wat Marine wa SoilxyleneFresh wat Marine2-methoxy-1-methylethyl acetateFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil2-methoxy-1-methylethyl acetateFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat	ter sediment 56.5 mg/kg d 35.6 mg/kg d 35.6 mg/kg d 0.0054 mg/l 0.00054 mg/l 0.00054 mg/l 0.00024 mg/l 0.002 mg/kg d 0.002 mg/kg 0.0015 mg/kg 0.327 mg/l 0.327 mg/l 6.58 mg/l	iwt - iwt - iwt - iwt - iwt - iwt - g dwt - g dwt - i i i i i i i i i i i i i i i i i i i
colophony Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat	ter sediment 56.5 mg/kg d 35.6 mg/kg d 35.6 mg/kg d 0.0054 mg/l 0.00054 mg/l 0.00054 mg/l 0.00024 mg/l 0.002 mg/kg d 0.002 mg/kg 0.0015 mg/kg 0.327 mg/l 0.327 mg/l 6.58 mg/l	iwt - iwt - iwt - iwt - iwt - iwt - g dwt - g dwt - i i i i i i i i i i i i i i i i i i i
colophonySoil Fresh wat Marine Sewage T Plant Fresh wat Marine wa SoilxyleneFresh wat Marine wa SoilxyleneFresh wat Marine Sewage T Plant Fresh wat Marine wa Soil2-methoxy-1-methylethyl acetateFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil2-methoxy-1-methylethyl acetateFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat	35.6 mg/kg d er 0.0054 mg/l neatment 0.00054 mg/l neatment 1000 mg/l er sediment 0.02 mg/kg d ter sediment 0.002 mg/kg 0.0015 mg/kg 0.0215 mg/kg 0.327 mg/l 0.327 mg/l reatment 6.58 mg/l	Iwt - - I - dwt - g dwt - g dwt - - - - -
colophonyFresh wat Marine Sewage T Plant Fresh wat Marine wa SoilxyleneFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil2-methoxy-1-methylethyl acetateFresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Fresh wat Marine Sewage T Fresh wat Marine Sewage T Fresh wat Marine Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat	er 0.0054 mg/l reatment 0.00054 mg/l reatment 1000 mg/l er sediment 0.02 mg/kg d ter sediment 0.002 mg/kg 0.0015 mg/l 0.0015 mg/kg er 0.327 mg/l 0.327 mg/l 0.327 mg/l 6.58 mg/l 0.58 mg/l	- I - dwt - g dwt - g dwt - - - - -
Arine Sewage T Plant Fresh wat Marine wa Soil Xylene Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil 2-methoxy-1-methylethyl acetate Fresh wat Marine Sewage T Plant Fresh wat Soil Fresh wat Marine wa Soil Fresh wat	reatment 0.00054 mg/l er sediment 0.02 mg/kg ter sediment 0.002 mg/kg 0.0015 mg/kg 0.0015 mg/kg or 0.327 mg/l reatment 0.327 mg/l or 0.327 mg/l	- dwt - g dwt - - - - dwt -
 Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Ethylbenzene 	reatment 1000 mg/l er sediment 0.02 mg/kg d 0.002 mg/kg 0.0015 mg/kg 0.327 mg/l 0.327 mg/l 6.58 mg/l	- dwt - g dwt - - - - dwt -
 Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil ethylbenzene 	er sediment ter sediment er er er er er er er er er er er er er	dwt - g dwt - - - dwt -
xylene Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Soil Fresh wat Marine Soil Fresh wat Marine Soil Fresh wat Marine Soil Fresh wat Marine Soil Fresh wat Marine Soil Fresh wat Marine Soil Fresh wat Marine Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Soil Fresh wat Marine Sewage T Plant Fresh wat Soil Fresh wat	ter sediment 0.002 mg/kg 0.0015 mg/kg 0.327 mg/l 0.327 mg/l 0.327 mg/l 6.58 mg/l	dwt - g dwt - - - dwt -
xylene Soil xylene Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine Fresh wat	er 0.0015 mg/kg er 0.327 mg/l 0.327 mg/l reatment 6.58 mg/l	g dwt - - - dwt -
xylene Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil 2-methoxy-1-methylethyl acetate Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Fresh wat	er 0.327 mg/l 0.327 mg/l reatment 6.58 mg/l	
Arine Sewage T Plant Fresh wat Marine wa Soil 2-methoxy-1-methylethyl acetate 2-methoxy-1-methylethyl acetate Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Ethylbenzene Fresh wat	0.327 mg/l 6.58 mg/l	
2-methoxy-1-methylethyl acetate Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat	0.327 mg/l 6.58 mg/l	
2-methoxy-1-methylethyl acetate Plant Soil 2-methoxy-1-methylethyl acetate Presh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat	reatment 6.58 mg/l	
2-methoxy-1-methylethyl acetate Plant Soil 2-methoxy-1-methylethyl acetate Presh wat Marine Sewage T Plant Fresh wat Marine wa Soil Fresh wat Marine wa Soil Fresh wat		
2-methoxy-1-methylethyl acetate Soil 2-methoxy-1-methylethyl acetate Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil ethylbenzene Fresh wat		
2-methoxy-1-methylethyl acetate Soil 2-methoxy-1-methylethyl acetate Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil ethylbenzene Fresh wat	er sediment 12.46 mg/kg	
2-methoxy-1-methylethyl acetate Fresh wat Marine Sewage T Plant Fresh wat Marine wa Soil ethylbenzene Fresh wat	ter sediment 12.46 mg/kg	
ethylbenzene Marine Sewage T Plant Fresh wat Soil Fresh wat	2.31 mg/kg d	
Marine Sewage T Plant Fresh wat Marine wa Soil ethylbenzene Fresh wat		-
ethylbenzene Plant Fresh wat Marine wa Soil Fresh wat	0.0635 mg/l	-
ethylbenzene Plant Fresh wat Marine wa Soil Fresh wat	•	-
ethylbenzene Marine wat Soil Fresh wat	5	
ethylbenzene Marine wat Soil Fresh wat	er sediment 3.29 mg/kg d	iwt –
ethylbenzene Soil Fresh wat	ter sediment 0.329 mg/kg	
ethylbenzene Fresh wat	0.29 mg/kg d	
5		_
Marino	0.01 mg/l	_
Sewage T		_
Plant		
Fresh wat	er sediment 13.7 mg/kg d	
Soil		iwt –
	2.68 mg/kg d	
1-methoxy-2-propanol Fresh wat	2.68 mg/kg d Poisoning 20 mg/kg	-
Marine	2.68 mg/kg d v Poisoning 20 mg/kg er 10 mg/l	-
	2.68 mg/kg d Poisoning 20 mg/kg	- - -

SECTION 8: Exposure controls/personal protection

	· • •	
Sewage Treatment	100 mg/l	-
Plant	_	
Fresh water sediment	52.3 mg/kg dwt	-
Marine water sediment	5.2 mg/kg dwt	-
Soil	5.49 mg/kg dwt	-

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measured	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

Wear suitable gloves tested to ISO 374-1:2016.

May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber (> 0.4 mm), PVC (> 0.5 mm), neoprene (> 0.35 mm)

Recommended, gloves(breakthrough time) > 8 hours: Viton® (> 0.7 mm), Teflon (> 0.35 mm), nitrile rubber (> 0.75 mm), polyvinyl alcohol (PVA) (> 0.3 mm), 4H/Silver Shield® (> 0.07 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

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.

Body protection	: Use chemical-resistant protective suit / disposable overall.
	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.
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.

SECTION 8: Exposure controls/personal protection

	• •
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Black
Odour	: Characteristic.
Odour threshold	: Not applicable.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	 Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted average: 156.76°C (314.2°F)
Flammability	: Not applicable.
Upper/lower flammability or explosive limits	: 0.8 - 13.74%
Flash point	: Closed cup: 28°C (82.4°F)
Auto-ignition temperature	: Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).
Decomposition temperature	: Not available.
рН	Not applicable.
Viscosity	: Kinematic (40°C): >20.5 mm ² /s
Solubility(ies)	:
Media	Result

Media		Result
cold water hot water		Not soluble Not soluble
Partition coefficient: n-octanol/ water	:	Not available.
Vapour pressure		Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.52 kPa (3.9 mm Hg) (at 20°C)
Evaporation rate		Highest known value: 0.84 (ethylbenzene) Weighted average: 0.63compared with butyl acetate
Density	: [<mark>1∕.</mark> 59 g/cm³
Vapour density		Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.91 (Air = 1)
Explosive properties	: 1	Not available.
Oxidising properties	:	Not available.
Particle characteristics		
Median particle size	:	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stabilit	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	1	Stable under recommended storage and handling conditions (see Section 7).		
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.		
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	-	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.		

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dícopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours
	mists		_	
	LD50 Oral	Rat	1340 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate			00	
	LD50 Oral	Rat	8532 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	11 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Mare Nostrum SP	2534.8	20395.7	N/A	153.0	16.9
dicopper oxide	500	N/A	N/A	N/A	3.34
xylene	4300	1100	N/A	11	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
dicopper oxide	Eyes - Cornea opacity	Rabbit	-	72 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	-	48 hours	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitisation

SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result
colophony	skin	Mammal - species unspecified	Sensitising

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

Developmental effects Fertility effects No known significant effects or critical hazards.No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate 1-methoxy-2-propanol	Category 3 Category 3	-	Narcotic effects Narcotic effects

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
hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential acute health effects

Eye contact	Causes serious eye damage.
Inhalation	May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Symptoms related to the phy	cal, chemical and toxicological characteristics
Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

	•
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
General	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Other information	: None identified.
SECTION 12: Eco	ological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
dícopper oxide	Acute LC50 0.075 mg/l Fresh water	Fish - Zebra danio - Danio rerio	96 hours
	Chronic NOEC 0.001 mg/l	Algae	-
	Chronic NOEC 0.0052 mg/l	Algae	-
zinc oxide	Acute LC50 1.1 ppm Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 0.02 mg/l Fresh water	Algae - Green algae -	72 hours
		Pseudokirchneriella subcapitata	
		- Exponential growth phase	
hydrocarbons, C9, aromatics	Acute EC50 <10 mg/l	Daphnia	48 hours
-	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Daggerblade	48 hours
		grass shrimp - Palaemonetes	
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Diatom - Skeletonema	96 hours
		costatum	
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours

Conclusion/Summary : Water polluting material. May be harmful to the environment if released in large quantities. This material is very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
dicopper oxide zinc oxide	-	-	Not readily Not readily
hydrocarbons, C9, aromatics xylene ethylbenzene	-	-	Not readily Readily Readily

12.3 Bioaccumulative potential

SECTION 12: Ecological information

SECTION 12. Ecological information			
Product/ingredient name	LogPow	BCF	Potential
zínc oxide	-	28960	high
hydrocarbons, C9, aromatics	-	10 to 2500	high
colophony	1.9 to 7.7	-	high
xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl acetate	1.2	-	low
ethylbenzene	3.6	-	low
1-methoxy-2-propanol	<1	-	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 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.
Waste catalogue	
Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous 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		Waste catalogue
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	taken when Empty conta residues ma container. I thoroughly in	al 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. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint. Marine pollutant (dicopper oxide)	Paint
14.3 Transport hazard class(es)				3
14.4 Packing group	111			111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID	:	The environmentally hazardous substance mark is not required when transported in
		sizes of ≤5 L or ≤5 kg.
		Hazard identification number 30 Tunnel code (D/E)
ADN	:	The environmentally hazardous substance mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
IMDG	:	The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg. Emergency schedules F-E, <u>S-E</u>
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special precautions for user	:	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 available.
SECTION 15: Regulat	tn	ry information

b: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants Not listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c E1	

EU regulations

15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.
UNECE Aarhus Protocol of Not listed.	on POPs and Heavy Metals
Rotterdam Convention or Not listed.	<u>ı Prior Informed Consent (PIC)</u>
Not listed.	n Persistent Organic Pollutants
Montreal Protocol Not listed.	
International regulations Chemical Weapon Conver Not listed.	ntion List Schedules I, II & III Chemicals
Industrial emissions (integrated pollution prevention and control) Water	- Not listed
Industrial emissions (integrated pollution prevention and control) Air	- Not listed

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbroviations and	ATE - Aguto Tovigity Estimate
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to derive	e the classification

Procedure used to derive the classification

SECTION 16: Other information

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
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	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
Date of printing	: 05.04.2024	

Date of printing	05.04.2024
Date of issue/ Date of revision	: 05.04.2024
Date of previous issue	: 28.08.2023
Version	: 2
Notice to reader	

Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.