

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

1.1 Product identifier	
Product name	: SeaMate NB
UFI	: 5D1K-N2FE-9006-5C45
Product code	: 28902
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 - 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

#### National contact

Jotun Ibérica S.A. Poligon Industrial Santa Rita Calle Estàtica, no 3 08755 - Castellbisbal Barcelona

Tel: +34 93 771 18 00 Fax: +34 93 771 18 01 SDSJotun@jotun.com

## 1.4 Emergency telephone number

Jotun Ibérica S.A. Tel. +34 93 77 11 800 (8.00-17.00)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226

Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335 STOT RE 2, H373 (nervous system)

1/20

## **SECTION 2: Hazards identification**

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

Hazard pictograms	
Signal word	: Danger.
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour. H302 + H332 - Harmful if swallowed or if inhaled. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H361d - Suspected of damaging the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (nervous system) H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
General	: Not applicable.
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour or spray.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>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.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazardous ingredients	: dicopper oxide xylene colophony zineb copper pyrithione
Supplemental label elements	: EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Additional information	: Antifouling. Active substances: dicopper oxide (CAS 1317-39-1) 33.6 % w/w, zineb (CAS 12122-67-7) 4.9 % w/w, copper pyrithione (CAS 14915-37-8) 2.7 % w/w. Read Technical Data Sheet and Safety Data Sheet before use. Do not reuse empty containers. For professional use only.
In compliance	: IMO Antifouling System Convention compliant AFS/CONF/26 + IMO MEPC.331(76).
Date of issue/Date of revision	: 23.03.2023 Date of previous issue : No previous validation Version : 1 2/20

# **SECTION 2: Hazards identification**

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

3.2 Mixtures	: Mixture			1	1
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dicopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	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] = 1100 mg/kg ATE [Inhalation (vapours)] = 20 mg/ I	[1] [2]
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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	<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]
zineb	EC: 235-180-1 CAS: 12122-67-7	≤5	Flam. Sol. 1, H228 Skin Sens. 1, H317	M [Acute] = 10 M [Chronic] = 10	[1]

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SECTION 3: Com	position/informat	ion on i	ingredients		
	Index: 006-078-00-2		Repr. 2, H361d STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		
copper pyrithione	EC: 238-984-0 CAS: 14915-37-8	<3	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (nervous system) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 200 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.07 mg/l M [Acute] = 100 M [Chronic] = 100	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

## **SECTION 4: First aid measures**

4.1 Description of first aid me	asures
General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
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.

Date of issue/Date of revision

## **SECTION 4: First aid measures**

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains colophony, zineb. May produce an allergic reaction.

#### **Over-exposure signs/symptoms**

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations</li> </ul>

# 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Specific treatments : No specific treatment.

See toxicological information (Section 11)

5/20

media

**Special protective** 

equipment for fire-fighters

# SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

Unsuitable extinguishing : Do not use water jet. media

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	1	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
5.3 Advice for firefighters Special protective actions for fire-fighters	:	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

: Appropriate breathing apparatus may be required.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
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	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and material for containment and cleaning up	:	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). Preferably clean with a detergent. Avoid using solvents.
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

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

## SECTION 7: Handling and storage

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## Seveso Directive - Reporting thresholds

## **Danger criteria**

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

See Technical Data Sheet / packaging for further information.

## 7.3 Specific end use(s)

**Recommendations** Industrial sector specific : Not available. solutions

: Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values			
dicopper oxide	National institute of occupational safety and health (Spain, 4/2021).			
xylene	TWA: 0.01 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Respirable fraction <b>National institute of occupational safety and health (Spain,</b>			
	4/2021). Absorbed through skin.			
	STEL: 442 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.			
	TWA: 221 mg/m <sup>3</sup> 8 hours.			
	TWA: 50 ppm 8 hours.			
colophony	National institute of occupational safety and health (Spain,			
	4/2021). Skin sensitiser.			
ethylbenzene	National institute of occupational safety and health (Spain,			
	4/2021). Absorbed through skin.			
	TWA: 100 ppm 8 hours.			

Date of issue/Date of revision

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: No previous validation

	TWA: 441 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
copper pyrithione	National institute of occupational safety and health (Spain, 4/2021).
	TWA: 0.01 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Respirable fraction
1-methoxy-2-propanol	National institute of occupational safety and health (Spain,
	4/2021). Absorbed through skin.
	STEL: 568 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.

assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

Туре	Exposure	Value	Population	Effects
DNEL	Long term Oral	0.041 mg/	General	Systemic
		kg bw/day	population	
DNEL	Short term Oral	0.082 mg/	General	Systemic
		kg bw/day	population	
DNEL	Long term	1 mg/m <sup>3</sup>	Workers	Local
	Inhalation			
DNEL	Long term	1 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation			
DNEL	Long term Dermal	137 mg/kg	Workers	Systemic
	_	bw/day		-
DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
	Inhalation		population	
DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
			population	
DNEL	Short term	260 mg/m <sup>3</sup>		Systemic
	Inhalation			
DNEL		221 mg/m <sup>3</sup>	Workers	Local
DNEL	Long term Oral			Systemic
DNEL	0	65.3 mg/m <sup>3</sup>		Systemic
DNEL	Long term Dermal			Systemic
DNEL	Long term Dermal		Workers	Systemic
DNEL		221 mg/m <sup>3</sup>	Workers	Systemic
<b>_</b> /				l
DNEL		442 mg/m <sup>3</sup>	Workers	Local
DNEL		442 mg/m <sup>3</sup>	Workers	Systemic
<b>D</b>		05 "		
DNEL	Long term Dermal		Workers	Systemic
DNEL		1/6 mg/m <sup>3</sup>	Workers	Systemic
	Innalation			
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	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term OralDNELShort term OralDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term InhalationDNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term InhalationDNELLong term	DNELLong term Oral0.041 mg/ kg bw/dayDNELShort term Oral0.082 mg/ kg bw/dayDNELLong term1 mg/m³Inhalation1 mg/m³DNELLong term1 mg/m³Inhalation1 mg/m³DNELLong term Dermal137 mg/kg bw/dayDNELLong term Dermal137 mg/kg bw/dayDNELLong term Dermal137 mg/kg bw/dayDNELLong term Dermal137 mg/kg bw/dayDNELShort term260 mg/m³Inhalation260 mg/m³DNELShort term260 mg/m³Inhalation221 mg/m³DNELLong term Oral12.5 mg/kg bw/dayDNELLong term Oral125 mg/kg bw/dayDNELLong term Dermal125 mg/kg bw/dayDNELLong term Dermal212 mg/m³InhalationNELShort termDNELLong term Dermal212 mg/m³InhalationDNELShort termDNELShort term442 mg/m³InhalationDNELShort termDNELLong term Dermal25 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal25 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal25 mg/m³DNELLong term Dermal25 mg/m³DNELLong term Dermal176 mg/m³	DNELLong term Oral0.041 mg/ kg bw/dayGeneral populationDNELShort term Oral0.082 mg/ kg bw/dayGeneral populationDNELLong term1 mg/m³WorkersDNELLong term1 mg/m³WorkersDNELLong term137 mg/kg bw/dayWorkersDNELLong term Dermal137 mg/kg bw/dayWorkersDNELLong term Dermal137 mg/kg bw/dayWorkersDNELLong term Dermal137 mg/kg bw/dayWorkersDNELShort term260 mg/m³General populationDNELShort term260 mg/m³General populationDNELLong term221 mg/m³WorkersInhalation12.5 mg/ kg bw/dayGeneral populationDNELLong term Oral125 mg/kg bw/dayGeneral populationDNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal212 mg/kg bw/dayWorkersDNELLong term Dermal221 mg/m³WorkersDNELLong term Dermal221 mg/m³WorkersDNELLong term442 mg/m³WorkersInhalationDNELShort term Inhalation442 mg/m³WorkersDNELLong term Dermal25 mg/kg bw/dayWorkersDNELLong term Dermal25 mg/kg bw/dayWorkersDNELLong term Dermal25 mg/kg bw/dayWorkersDNELLong term Dermal25 m

	DNEL	Long term Dermal	15 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term	52 mg/m³	General	Systemic
		Inhalation		population	
		Long torm Oral	15 mg///-	[Consumers]	Suctor
	DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic
			Dw/uay	[Consumers]	
	DNEL	Long term Oral	1.0655 mg/	General	Systemic
			kg bw/day	population	0,0001110
	DNEL	Long term Dermal	1.0655 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Long term Dermal	2.131 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	10 mg/m³	Workers	Local
		Inhalation	1.0	Orman	Ou se tra
thylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
	DNEL	Long term	bw/day 15 mg/m³	population General	Systemic
		Inhalation	13 mg/m	population	Systemic
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			0,0001110
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation	991 ma/m3	Morkoro	Systemic
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
inc oxide	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
		Long torm Derindi	bw/day		Cysternie
	DNEL	Long term	5 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	Ŭ		-
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
			bw/day	population	
			0.5	[Consumers]	0
	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population [Consumers]	
	DNEL	Long term Oral	0.83 mg/	General	Systemic
		Long term Ora	kg bw/day	population	Cysternic
				[Consumers]	
	DNEL	Long term	0.5 mg/m <sup>3</sup>	Workers	Local
		Inhalation	Ŭ		
	DNEL	Long term Oral	0.83 mg/	General	Systemic
	<b> </b>		kg bw/day	population	
	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation	5 malm3	population	Quatarais
	DNEL	Long term	5 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term Dermal	83 mg/kg	General	Systemic
		Long term Dermal	bw/day	population	Systemic
	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
			bw/day		0,0001110
-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term	43.9 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	183 mg/kg	Workers	Systemic

#### **SECTION 8: Exposure controls/personal protection** bw/day Workers DNEL Long term 369 mg/m<sup>3</sup> Systemic Inhalation DNEL Short term 553.5 mg/ Workers Local Inhalation т³ DNEL Short term 553.5 mg/ Workers Systemic Inhalation m³

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
dicopper oxide	Fresh water	7.8 µg/l	-
	Marine	5.2 µg/l	-
	Sewage Treatment	230 µg/l	-
	Plant		
	Fresh water sediment	87 mg/kg dwt	-
	Marine water sediment	676 mg/kg dwt	-
	Soil	65 mg/kg dwt	-
xylene	Fresh water	0.327 mg/l	-
,	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	j,·	
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	_
colophony	Fresh water	0.0054 mg/l	_
	Marine	0.00054 mg/l	-
	Sewage Treatment	1000 mg/l	
	Plant	1000 mg/l	
	Fresh water sediment	0.02 mg/kg dwt	
	Marine water sediment	0.002 mg/kg dwt	-
	Soil	0.0015 mg/kg dwt	-
athulhanzana	Fresh water	0.1 mg/l	-
ethylbenzene		0.01 mg/l	-
	Marine		-
	Sewage Treatment Plant	9.6 mg/l	-
	Fresh water sediment	13.7 mg/kg dwt	
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning		-
zinc oxide	Fresh water	20 mg/kg	-
		20.6 µg/l	-
	Marine	6.1 µg/l	-
	Sewage Treatment	52 µg/l	-
	Plant	447.0 // 1.4	
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	Marine	1 mg/l	-
	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

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Date of issue/Date of revision

## **SECTION 8: Exposure controls/personal protection**

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.

Not recommended, gloves(breakthrough time) < 1 hour: butyl rubber (> 0.4 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), PVC (> 0.5 mm) Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), nitrile rubber (> 0.4 mm), Teflon (> 0.35 mm), 4H/Silver Shield® (> 0.07 mm), polyvinyl alcohol (PVA) (> 0.3 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	<ul> <li>Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.</li> </ul>
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: 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

Date of issue/Date of revision	: 23.03.2023 Date of previous issue	: No previous validation	Version :1	11/20
Odour	: Characteristic.			
Colour	: Red			
Physical state	: Liquid.			
Appearance				

## **SECTION 9: Physical and chemical properties**

Odour threshold	1	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: 135.16°C (275.3°F)
Flammability	:	Not applicable.
Lower and upper explosion limit	1	0.8 - 13.74%
Flash point	:	Closed cup: 27°C
Auto-ignition temperature	:	Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).
Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	1	Kinematic (40°C): >20.5 mm²/s
Solubility in water	:	cold water Not soluble hot water Not soluble
Partition coefficient: n-octanol/ water	1	Not available.
Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.98 kPa (7.35 mm Hg) (at 20°C)
Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared with butyl acetate
Density	:	1.68 g/cm <sup>3</sup>
Vapour density	:	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.66 (Air = 1)
Explosive properties	1	Not available.
Oxidising properties	1	Not available.
Particle characteristics		
Median particle size	;	Not applicable.

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	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	1	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 hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

## **SECTION 11: Toxicological information**

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains colophony, zineb. May produce an allergic reaction.

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours
	mists		_	
	LD50 Oral	Rat	1340 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
zineb	LD50 Oral	Rat	1850 mg/kg	-
copper pyrithione	LC50 Inhalation Dusts and	Rat	70 mg/m <sup>3</sup>	4 hours
	mists			
	LD50 Dermal	Rabbit	300 mg/kg	-
	LD50 Oral	Rat	200 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)
SeaMate NB	1237.5	4313.0	N/A	93.6	2.0
dicopper oxide	500	N/A	N/A	N/A	3.34
xylene	4300	1100	N/A	20	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A
copper pyrithione	200	300	N/A	N/A	0.07
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	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
copper pyrithione	Eyes - Severe irritant	Mammal - species unspecified	-	-	-
	Skin - Irritant	Mammal - species unspecified	-	-	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

## **SECTION 11: Toxicological information**

Skin - Mild irritant Rabbit - 500 mg -

## **Sensitisation**

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

## **Mutagenicity**

No known significant effects or critical hazards.

## **Carcinogenicity**

No known significant effects or critical hazards.

## **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
zineb	-	-		Mammal - species unspecified	Route of exposure unreported	-
copper pyrithione	-	-		Mammal - species unspecified	Route of exposure unreported	-

Developmental effects

: Suspected of damaging the unborn child.

```
Fertility effects : No known significant effects or critical hazards.
```

## **Teratogenicity**

Suspected of damaging the unborn child.

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
zineb	Category 3	-	Respiratory tract irritation
copper pyrithione	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
copper pyrithione	Category 1		nervous system

## **Aspiration hazard**

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

## **11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties** 

Not available.

## **11.2.2 Other information**

Not available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

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
dicopper oxide	Acute LC50 0.075 mg/l Fresh water	Fish - Danio rerio	96 hours
	Chronic NOEC 0.001 mg/l	Algae	-
	Chronic NOEC 0.0052 mg/l	Algae	-
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
2	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
zineb	Acute EC50 0.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 970 to 1800 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.225 mg/l	Fish	96 hours
	Acute LC50 20.8 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Algae - Chlorella vulgaris	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Algae - Scenedesmus quadricauda	96 hours
copper pyrithione	Acute EC50 0.022 mg/l	Daphnia	48 hours
	Acute IC50 0.035 mg/l	Algae	120 hours
	Acute LC50 0.0043 mg/l	Fish	96 hours
	Chronic NOEC 0.00046 mg/l	Algae - Skeletonema costatum	120 hours
zinc oxide	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.02 mg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata - Exponential growth phase	

**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 xylene	-	-	Not readily Readily
ethylbenzene zinc oxide	-	-	Readily Not readily

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	8.1 to 25.9	low
colophony	1.9 to 7.7	-	high
ethylbenzene	3.6	-	low
zineb	1.3	-	low
zinc oxide	-	28960	high
1-methoxy-2-propanol	<1	-	low

## 12.4 Mobility in soil

SECTION 12: Ecol	ogical information					
Soil/water partition	: Not available.					

coefficient (Koc)

Mobility

: Not available.

## 12.5 Results of PBT and vPvB assessment

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

## 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

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

## **13.1 Waste treatment methods**

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.
Disposal considerations	: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

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. We packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>		
Type of packaging	European waste catalogue (EWC)		
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances	

## **SECTION 13: Disposal considerations**

Special precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	•			
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID 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			3
14.4 Packing group		111		111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substanc mark is not required.

## Additional information

ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ . Hazard identification number 30 Tunnel code (D/E)
ADN	:	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.
IMDG	:	The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg. <b>Emergency schedules</b> 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	:	<b>Transport within user's premises:</b> 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 Maritime transport in bulk according to IMO	:	Not available.

```
instruments
```

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

## Substances of very high concern

## SECTION 15: Regulatory information

None of the components are listed.

•	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Other EU regulations	
VOC	: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.
VOC for Ready-for-Use Mixture	: Not available.
Industrial emissions (integrated pollution prevention and control) - Air	: Listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substanc	es (1005/2009/EU)
Not listed.	
Prior Informed Consent (P	IC) (649/2012/EU)

Annex	Ingredient name	Status
Annex I - Part 1	zineb	Listed

## **Persistent Organic Pollutants**

Not listed.

#### **Seveso Directive**

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

## **National regulations**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

## **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **15.2 Chemical safety** : Not applicable. assessment

Date of issue/Date of revision

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration</li> </ul>
	PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eve Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373 (nervous system)	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.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

## **SECTION 16: Other information**

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	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - 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	: 23.03.2023	
Date of issue/ Date of	: 23.03.2023	
revision		
Date of previous issue	e : No previous validation	
Version	: 1	
Notice to reader		

#### Notice to reader

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