# **SAFETY DATA SHEET**



## SeaForce 30 M

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

1.1 Product identifier

Product name : SeaForce 30 M

Product code : 31842

Product description : Paint.

Product type : Liquid.

Other means of : Not available.

identification

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 Jotun Paints (Europe) Ltd.

P.O.Box 2021 Stather Road

3202 Sandefjord Flixborough, Scunthorpe

Norway North Lincolnshire

Tel: + 47 33 45 70 00 DN15 8RR Fax: +47 33 45 72 42 England

E-mail: SDSJotun@jotun.no

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 NHS 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

<u>Classification according to UK CLP/GHS</u>

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335 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

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#### **SECTION 2: Hazards identification**

#### **Hazard pictograms**











Signal word

: Danger.

**Hazard statements** 

: H226 - Flammable liquid and vapour.

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. H410 - Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

General

: Not applicable.

**Prevention** 

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response

: P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

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

Disposal

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

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) 21.1% w/w, zineb (CAS 12122-67-7) 7.6% w/w. Read Technical Data Sheet and Safety Data Sheet before use. Do not reuse empty containers. For professional use only.

**Additional information** 

: HSE No. 10051. DO NOT BREATHE SPRAY MIST. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS OF A CONTRASTING COLOUR TO THE PRODUCT BEING APPLIED, UNDERNEATH A DISPOSABLE COVERALL WITH HOOD), SUITABLE GLOVES AND IMPERVIOUS FOOTWEAR THAT PROTECTS THE LOWER LEG. WEAR SUITABLE RESPIRATORY EQUIPMENT (such as airfed respiratory protective equipment with combined protective helmet and visor) when spraying. WEAR SUITABLE RESPIRATORY EQUIPMENT (such as FFP3 or an equivalent standard) when working in the vicinity of the spray plume. DISPOSE OF PROTECTIVE GLOVES after use. UNPROTECTED PERSONS SHOULD BE KEPT OUT OF TREATMENT AREAS.

In compliance

: IMO Antifouling System Convention compliant AFS/CONF/26 + IMO MEPC.331(76).

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

**Special packaging requirements** 

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### **SECTION 2: Hazards identification**

Containers to be fitted with child-resistant

: Not applicable.

fastenings

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

Product/ingredient name	Identifiers	%	Classification	Type
dicopper 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, H410 (M=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	[1] [2]
colophony	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥10 - ≤25	Skin Sens. 1, H317	[1] [2]
zineb	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≤10	Flam. Sol. 1, H228 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]

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

hydrocarbons, C9, aromatics	CAS: 107-98-2 Index: 603-064-00-3 REACH #: 01-2119455851-35 EC: 918-688-5 CAS: 64742-95-6	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤3	Carc. 2, H351 (inhalation)  See Section 16 for the full text of the H statements declared above.	[1] [*]

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.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

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

#### 4.1 Description of first aid measures

**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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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.

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#### **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

#### 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** : Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

#### 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.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

See toxicological information (Section 11)

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, 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 prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

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# **SECTION 5: Firefighting measures**

#### 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

**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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately

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# **SECTION 7: Handling and storage**

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**

	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 : Not available.

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/m³, (as Cu) 15 minutes. Form: Dusts and Mists TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and Mists
xylene	EH40/2005 WELS (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
colophony	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 0.15 mg/m³ 15 minutes. Form: Fume
	TWA: 0.05 mg/m³ 8 hours. Form: Fume
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

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

through skin.
STEL: 560 mg/m³ 15 minutes.
STEL: 150 ppm 15 minutes.
TWA: 375 mg/m³ 8 hours.
TWA: 100 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
kylene	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.

Recommended monitoring procedures

: 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**

DNEL	Long term	1 mg/m³	Workers	Local
DNEL		1 mg/m³	Workers	Systemic
DNEL	Long term Dermal		Workers	Systemic
DATE			0 1	
DNEL	Long term Oral			Systemic
DNE	Charttanna Oral			Cuatamia
DIVEL	Short term Oral			Systemic
DNEI	Long form Oral			Systemic
DIVEL	Long term Oral			Systemic
DNEI	Long term			Local
DIVEE		00.0 mg/m		Local
DNEI		65.3 mg/m <sup>3</sup>		Systemic
BITEL		00.0 1119/111		Cyclonno
DNEL		125 ma/ka		Systemic
	3			'
DNEL	Long term Dermal		Workers	Systemic
		bw/day		
DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
	Inhalation			
DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
DNEL		260 mg/m <sup>3</sup>		Local
DNEL		260 mg/m <sup>3</sup>		Systemic
DNE		440		
DNEL		442 mg/m³	Workers	Local
חאבו		442 mg/m³	Markoro	Cuatamia
DNEL		442 mg/m <sup>3</sup>	vvorkers	Systemic
DNEI		25 ma/ka	Morkore	Systemic
DIVEL	Long term Dermai		VVOIKEIS	Systemic
DNEI	Long term		Workers	Systemic
DIVEE		1701119/111	WOIKCIS	Oysternic
DNFI		15 ma/ka	General	Systemic
	Zong tom Boman	. ,		a you and
		,		
DNEL	Long term	52 mg/m³	General	Systemic
	Inhalation		population	
			[Consumers]	
DNEL	Long term Oral	15 mg/kg	General	Systemic
	-	bw/day	population	
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Inhalation DNEL Long term Inhalation DNEL Long term Oral DNEL Short term Oral DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Dermal	Inhalation DNEL Long term Dermal DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Short term Oral DNEL Long term Dermal DNEL Short term Dermal DNEL Short term Dermal DNEL Short term Dermal DNEL Long term Dermal	Inhalation   Long term   Inhalation   Long term   Dermal   137 mg/kg   bw/day   DNEL   Long term Oral   0.041 mg/ kg bw/day   DNEL   Long term   Oral   5 mg/kg   DNEL   Long term   Dermal   DNEL   Long term   DNEL   DNEL   Long term   DNEL   DNEM   DNEM

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

ethylbenzene  DMEL Long term Inhalation DMEL Short term Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Toral DNEL Short term T	
DMEL Short term Inhalation  DNEL Long term Oral  DNEL Long term Oral  DNEL Long term 15 mg/m³ General population  DNEL Long term 15 mg/m³ General population  DNEL Long term 77 mg/m³ Workers  DNEL Long term 77 mg/m³ Workers  DNEL Long term Dermal 180 mg/kg bw/day  DNEL Short term 293 mg/m³ Workers  DNEL Local	
DNEL Long term Oral 1.6 mg/kg bw/day population  DNEL Long term 15 mg/m³ General population  DNEL Long term 77 mg/m³ Workers Systemic  DNEL Long term Dermal 180 mg/kg bw/day  DNEL Short term 293 mg/m³ Workers Local	
DNEL Long term 15 mg/m³ General population  DNEL Long term 77 mg/m³ Workers Systemic  Inhalation  DNEL Long term Dermal 180 mg/kg bw/day  DNEL Short term 293 mg/m³ Workers Local	
DNEL Long term 77 mg/m³ Workers Systemic Inhalation DNEL Long term Dermal 180 mg/kg bw/day DNEL Short term 293 mg/m³ Workers Local	
DNEL Long term Dermal 180 mg/kg bw/day  DNEL Short term 293 mg/m³ Workers Local	
DNEL Short term 293 mg/m³ Workers Local	
Inhalation	
zinc oxide DNEL Long term Dermal 83 mg/kg bw/day Workers Systemic	
DNEL Long term 5 mg/m³ Workers Systemic Inhalation	
DNEL Long term Dermal 83 mg/kg General population [Consumers]	
DNEL Long term 2.5 mg/m³ General population [Consumers]	
DNEL Long term Oral 0.83 mg/ General Systemic population [Consumers]	
1-methoxy-2-propanol DNEL Long term Oral 33 mg/kg General Systemic bw/day Systemic	
DNEL Long term 43.9 mg/m³ General Systemic population	
DNEL Long term Dermal 78 mg/kg General Systemic bw/day population	
DNEL Long term Dermal 183 mg/kg bw/day Systemic	
DNEL Long term 369 mg/m³ Workers Systemic	
DNEL Short term 553.5 mg/ Workers Local Inhalation m³	
DNEL Short term 553.5 mg/ Workers Systemic Inhalation	
hydrocarbons, C9, aromatics    DNEL   Long term Dermal   12.5 mg/ kg bw/day   Workers   Systemic	
DNEL Long term 151 mg/m³ Workers Systemic	
DNEL Long term Dermal 7.5 mg/kg bw/day General population [Consumers]	
DNEL Long term 32 mg/m³ General Systemic population [Consumers]	
DNEL Long term Oral 7.5 mg/kg General Systemic bw/day population	
DNEL Long term 0.41 mg/m³ [Consumers] Systemic Inhalation	
DNEL Long term 1.9 mg/m³ Workers Systemic	
DNEL Long term 178.57 mg/ General Local Inhalation m³ population	
DNEL Short term 640 mg/m³ General Local Inhalation population	
DNEL Long term 837.5 mg/ Workers Local	

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

		Inhalation	m³		
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³		
	DNEL	Short term	1152 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	1286.4 mg/	Workers	Systemic
		Inhalation	m³		
titanium dioxide	DNEL	Long term	28 μg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	170 µg/m³	Workers	Local
		Inhalation			

#### **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		
	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	3.	
	Fresh water sediment	0.02 mg/kg dwt	_
	Marine water sediment	0.002 mg/kg dwt	_
	Soil	0.0015 mg/kg dwt	_
ethylbenzene	Fresh water	0.1 mg/l	_
541y1251125115	Marine	0.01 mg/l	_
	Sewage Treatment	9.6 mg/l	_
	Plant	0.0 1119/1	
	Fresh water sediment	13.7 mg/kg dwt	_
	Soil	2.68 mg/kg dwt	_
	Secondary Poisoning	20 mg/kg	_
zinc oxide	Fresh water	20.6 µg/l	_
ino oxido	Marine	6.1 µg/l	_
	Sewage Treatment	52 µg/l	_
	Plant	02 µg/1	
	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	_
1 modioxy 2 propanor	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

: 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.

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

#### Individual protection measures

#### **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 (> 0.75 mm), 4H/ Silver Shield® (> 0.07 mm), Teflon (> 0.35 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**

: 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.

#### **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.

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# **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 : Red, Grey 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: 137.32°C (279.2°F)

**Flammability** Upper/lower flammability or

explosive limits

: Not applicable. : 0.8 - 13.74%

Closed cup: 27°C (80.6°F) Flash point

: Lowest known value: 270°C (518°F) (1-methoxy-2-propanol). **Auto-ignition temperature** 

**Decomposition temperature** : Not available. pН : Not applicable.

**Viscosity** Kinematic (40°C): >20.5 mm<sup>2</sup>/s

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Partition coefficient: n-octanol/ : Not available.

water

Vapour pressure

: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted

average: 0.94 kPa (7.05 mm Hg) (at 20°C)

**Evaporation rate** Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared

with butyl acetate

**Density** : 1.55 g/cm<sup>3</sup>

Vapour density : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)

**Explosive properties** Not available. : Not available. **Oxidising properties** 

**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

: 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.

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# **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 mists	Rat	3.34 mg/l	4 hours
	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	-
zineb	LD50 Oral	Rat	1850 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)
SeaForce 30 M	2254.3	7365.9	N/A	55.2	15.1
dicopper oxide	500	N/A	N/A	N/A	3.34
xylene	4300	1100	N/A	11	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	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
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	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
<b>ଢ</b> olophony	skin	Mammal - species unspecified	Sensitising
zineb	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

No known significant effects or critical hazards.

#### **Reproductive toxicity**

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# **SECTION 11: Toxicological information**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
zineb	-	-		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
1-methoxy-2-propanol	Category 3	_	Narcotic effects
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>e</b> thylbenzene	Category 2	-	hearing organs

#### **Aspiration hazard**

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1

#### Potential acute health effects

Eye contact : Causes serious eye damage.Inhalation : May cause respiratory irritation.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

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

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# **SECTION 11: Toxicological information**

**Ingestion**: Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths

skeletal malformations

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Other information : None identified.

# **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 - Zebra danio - 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 - Daggerblade	48 hours
		grass shrimp - Palaemonetes pugio	
	Acute LC50 13400 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
zineb	Acute EC50 0.38 mg/l Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 970 to 1800 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 0.225 mg/l	Fish - Trout	96 hours
	Acute LC50 20.8 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Algae - Green algae - Chlorella vulgaris	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Algae - Green algae - Scenedesmus quadricauda	96 hours
ethylbenzene	Acute EC50 7700 μg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
zinc oxide	Acute LC50 1.1 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.02 mg/l Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
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
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	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.

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## **SECTION 12: Ecological information**

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

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>x</b> ylene	3.12	8.1 to 25.9	low
colophony	1.9 to 7.7	-	high
zineb	1.3	-	low
ethylbenzene	3.6	-	low
zinc oxide	-	28960	high
1-methoxy-2-propanol	<1	-	low
hydrocarbons, C9, aromatics	-	10 to 2500	high

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** 

: Not available.

#### 12.5 Results of PBT and vPvB assessment

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

**12.6 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		

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# SECTION 13: Disposal considerations

**Special precautions** 

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

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
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	3	3	3
14.4 Packing group	III	III	III	III
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 ≤5 L or ≤5 kg.

Emergency schedules F-E, S-E

**IATA** 

The environmentally hazardous substance mark may appear if required by other transportation regulations.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

# SECTION 15: 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.

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# **SECTION 15: Regulatory information**

#### Ozone depleting substances

Not listed.

#### **Prior Informed Consent (PIC)**

Part	Ingredient name	Status
Part 1	zineb	Listed

#### **Persistent Organic Pollutants**

Not listed.

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

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

**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

assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

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### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

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 the classification

Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	Calculation method	
Repr. 2, H361d	Calculation method	
STOT SE 3, H335	Calculation method	
Aquatic Acute 1, H400	Calculation method	
Aquatic Chronic 1, H410	Calculation method	

#### Full text of abbreviated H statements

Highly flammable liquid and vapour
Highly flammable liquid and vapour.
Flammable liquid and vapour.
Flammable solid.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Harmful in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.
Harmful to aquatic life with long lasting effects.
Repeated exposure may cause skin dryness or cracking.

#### **Full text of classifications**

Cute 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
Carc. 2	CARCINOGENICITY - Category 2
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

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#### **SECTION 16: Other information**

Repr. 2 REPRODUCTIVE TOXICITY - Category 2
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

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**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.

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