



## SeaQuantum Ultra S

Section 1. Identification		
Product name	: SeaQuantum Ultra S	
Product code	: 20760	
Product description	: Paint.	
Product type	: Liquid.	
Other means of identification	: Not available.	
Relevant identified uses of	of the substance or mixture and uses advised against	
Use in coatings - Profession	nal use	
Supplier's details	: Jotun Saudia Co Ltd. P.O. Box 34698 Jeddah 21478 Kingdom of Saudi Arabia Tel: +966 2 6350535 Fax: +966 2 6362483 SDSJotun@jotun.com	
Emergency telephone number	: Jotun AS, Norway +47 33 45 70 00	
Section 2 Hazar	ds identification	

#### 2. Hazarus luentification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN SENSITISATION - Category 1 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1</li> </ul>
GHS label elements Hazard pictograms	
Signal word	: Danger.
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H302 + H332 - Harmful if swallowed or if inhaled.</li> <li>H313 - May be harmful in contact with skin.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H335 - May cause respiratory irritation.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> </ul>
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## Section 2. Hazards identification

		H373 - May cause damage to organs through prolonged or repeated exposure. (nervous system) H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements		
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.</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 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. 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. Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
In compliance	:	IMO Antifouling System Convention compliant AFS/CONF/26 + IMO MEPC.331(76).
Other hazards which do not	:	None known.

result in classification

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

	CAS	<u>numb</u>	er/othe	<u>r identifiers</u>	
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CAS number	: Not applicable.
EC number	: Mixture.
Product code	: 20760

#### **Ingredient name** % **CAS** number dicopper oxide ≥25 - ≤50 1317-39-1 xylene 1330-20-7 ≥10 - ≤25 ethylbenzene <10 100-41-4 colophony ≤5 8050-09-7 hydrocarbons, C9, aromatics ≤5 64742-95-6 zinc oxide ≤5 1314-13-2 copper pyrithione ≤5 14915-37-8

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 and hence require reporting in this section.

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

### Section 4. First aid measures

Description of necess	sary 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.

# Potential acute health effects Eye contact : Causes serious eye damage. Inhalation : Harmful if inhaled. May cause respiratory irritation. Skin contact : May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Most important symptoms/effects, acute and delayed

: Harmful if swallowed. Ingestion 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

## Section 4. First aid measures

Ingestion	verse symptoms may include the followin mach pains luced foetal weight rease in foetal deaths eletal malformations	g:
Indication of immediate me	ention and special treatment needed,	if necessary
Notes to physician	case of inhalation of decomposition produ e exposed person may need to be kept u	
Specific treatments	specific treatment.	
Protection of first-aiders	action shall be taken involving any perso suspected that fumes are still present, the sk or self-contained breathing apparatus oviding aid to give mouth-to-mouth resusc proughly with water before removing it, or	e rescuer should wear an appropriate . It may be dangerous to the person itation. Wash contaminated clothing

See toxicological information (Section 11)

## Section 5. Firefighting measures

•	-
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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 thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

## Section 6. Accidental release measures

Personal precautions, protectiv	re 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".

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## Section 6. Accidental release measures

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.
Methods and material for con	tainment 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 spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	1	
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 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.
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.

## Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

Ingredient name		Exposure limits
dicopper oxide		ACGIH TLV (United States, 1/2022).
xylene		TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume ACGIH TLV (United States, 1/2022). STEL: 651 mg/m <sup>3</sup> 15 minutes. TWA: 434 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.
ethylbenzene		ACGIH TLV (United States, 1/2022). Ototoxicant. Notes: K
colophony		TWA: 20 ppm 8 hours. Form: <b>ACGIH TLV (United States, 1/2022). Skin</b> <b>sensitiser. Inhalation sensitiser.</b> TWA: 0.001 mg/m <sup>3</sup> , (as total Resin acids) 8 hours. Form: Inhalable fraction
Appropriate engineering controls	ventilation or other engineering co contaminants below any recomme	n. Use process enclosures, local exhaust ontrols to keep worker exposure to airborne ended or statutory limits. The engineering controls dust concentrations below any lower explosive ation equipment.
Environmental exposure controls	they comply with the requirements cases, fume scrubbers, filters or e	k process equipment should be checked to ensure s of environmental protection legislation. In some engineering modifications to the process duce emissions to acceptable levels.
Individual protection measu	res	
Hygiene measures	eating, smoking and using the lav Appropriate techniques should be Contaminated work clothing shoul	horoughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. Id not be allowed out of the workplace. Wash sing. Ensure that eyewash stations and safety ion location.
Eye/face protection	assessment indicates this is nece gases or dusts. If contact is possi unless the assessment indicates a	16321-1:2022 should be used when a risk ssary to avoid exposure to liquid splashes, mists, ible, the following protection should be worn, a higher degree of protection: chemical splash alation hazards exist, a full-face respirator may be
Skin protection		
Hand protection	resistance to any individual or con The breakthrough time must be gr The instructions and information p storage, maintenance and replace Gloves should be replaced regula material. Always ensure that gloves are free correctly. The performance or effectiveness damage and poor maintenance.	reater than the end use time of the product. provided by the glove manufacturer on use, ement must be followed. rly and if there is any sign of damage to the glove e from defects and that they are stored and used a of the glove may be reduced by physical/chemical ct the exposed areas of the skin but should not be

## Section 8. Exposure controls/personal protection

	Wear suitable gloves tested to ISO 374-1:2016. Not recommended, gloves(breakthrough time) < 1 hour: neoprene, butyl rubber, PVC Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber, 4H, Teflon, polyvinyl alcohol (PVA)
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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-P3). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

## Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Colour	1	Red
Odour	:	Characteristic.
Odour threshold	1	Not applicable.
рН	1	Not applicable.
Melting point	1	Not applicable.
Boiling point	:	Lowest known value: 136.1°C (277°F) (ethylbenzene). Weighted average: 141.78°C (287.2°F)
Flash point	1	Closed cup: 25°C (77°F)
Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared with butyl acetate
Flammability (solid, gas)	1	Not applicable.
Lower and upper explosive (flammable) limits	:	0.8 - 7.6%
Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.87 kPa (6.53 mm Hg) (at 20°C)
Vapour density	:	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1)
Density	:	1.76 g/cm³
Solubility	1	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, aromatics).
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic (40°C): >20.5 mm²/s (>20.5 cSt)

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

## Section 10. Stability and reactivity

Incompatible materials

: Reactive or incompatible with the following materials: oxidising materials

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	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	-
copper pyrithione	LC50 Inhalation Dusts and mists	Rat	70 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	300 mg/kg	-
	LD50 Oral	Rat	200 mg/kg	-

#### 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	-
copper pyrithione	Eyes - Severe irritant	Mammal - species unspecified	-	-	-
	Skin - Irritant	Mammal - species unspecified	-	-	-

#### **Sensitisation**

• • • • • • • • • • • • • • • • • • •	Route of exposure	Species	Result
colophony	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

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

#### **Teratogenicity**

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## Section 11. Toxicological information

Not available.

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

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
hydrocarbons, C9, aromatics	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
copper pyrithione	Category 3	-	Respiratory tract irritation

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

Name		Route of exposure	Target organs
	Category 2 Category 1		hearing organs nervous system

#### **Aspiration hazard**

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on likely routes : Not available. of exposure

Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.

Symptoms related to the physic	cal, chemical and toxicological characteristics
Eye contact :	Adverse symptoms may include the following: pain watering redness
Inhalation :	Adverse symptoms may include the following: respiratory tract irritation coughing 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

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## Section 11. Toxicological information

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	<ul> <li>May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### Acute toxicity estimates Route **ATE value** Oral 929.12 mg/kg Dermal 3640.08 mg/kg Inhalation (vapours) 88.5 mg/l Inhalation (dusts and mists) 1.49 mg/l

## S T F

Result	Species	Exposure
Acute LC50 0.075 mg/l Fresh water Chronic NOEC 0.001 mg/l Chronic NOEC 0.0052 mg/l	Fish - Danio rerio Algae Algae	96 hours -
Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
Acute EC50 7700 µg/l Marine water Acute EC50 2.93 mg/l	Algae - Skeletonema costatum Daphnia	96 hours 96 hours 48 hours
s Acute EC50 <10 mg/l Acute IC50 <10 mg/l	Daphnia Algae	96 hours 48 hours 72 hours 96 hours
Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.02 mg/l Fresh water	r Algae - Pseudokirchneriella subcapitata - Exponential	
Acute EC50 0.022 mg/l Acute IC50 0.035 mg/l Acute LC50 0.0043 mg/l Chronic NOEC 0.00046 mg/l	Daphnia Algae Fish Algae - Skeletonema costatum	48 hours 120 hours 96 hours 120 hours
	Acute LC50 0.075 mg/l Fresh water Chronic NOEC 0.001 mg/l Chronic NOEC 0.0052 mg/l Acute LC50 8500 µg/l Marine water Acute LC50 13400 µg/l Fresh water Acute EC50 7700 µg/l Marine water Acute EC50 2.93 mg/l Acute LC50 4.2 mg/l Acute LC50 4.2 mg/l Acute IC50 <10 mg/l Acute IC50 <10 mg/l Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.02 mg/l Fresh water Acute EC50 0.022 mg/l Acute IC50 0.035 mg/l Acute LC50 0.0043 mg/l	Acute LC50 0.075 mg/l Fresh water Chronic NOEC 0.001 mg/lFish - Danio rerio AlgaeAcute LC50 0.052 mg/lAlgaeAcute LC50 8500 µg/l Marine waterAlgaeAcute LC50 13400 µg/l Fresh water Acute EC50 7700 µg/l Marine waterFish - Pimephales promelasAcute EC50 13400 µg/l Fresh water Acute EC50 2.93 mg/lAlgae - Skeletonema costatumAcute EC50 4.2 mg/lDaphniaAcute LC50 <10 mg/l

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## Section 12. Ecological information

#### Persistence and degradability

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

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low
colophony	1.9 to 7.7	-	high
hydrocarbons, C9, aromatics	-	10 to 2500	high
zinc oxide	-	28960	high

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

: The generation of waste should be avoided or minimised wherever possible. **Disposal methods** 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 nonrecyclable 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	Paint	Paint. Marine pollutant (dicopper oxide)	Paint
Transport hazard class(es)			3
Packing group	111		
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## Section 14. Transport information

Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	-	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, <u>S-E</u>	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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)
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.
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.
Transport in bulk according	:	Not available.

to IMO instruments

## Section 15. Regulatory information

Safety, health and<br/>environmental regulations: No known specific national and/or regional regulations applicable to this productspecific for the product: including its ingredients).

#### 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.

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

Not listed.

## Section 16. Other information

<u>History</u>	
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## Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
Deferences	
References	: Not available.

✓ Indicates information that has changed from previously issued version.

#### 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.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.