# SAFETY DATA SHEET



## SeaQuantum Pro U

Section 1. Identi	fication
GHS product identifier	: SeaQuantum Pro U
Product code	: 28900
Other means of identification	: Not available.
Product type	: Liquid.
Product description	: Paint.
	f the substance or mixture and uses advised against
Use in coatings - Professi	ional use
Supplier's details	: 佐敦涂料(张家港)有限公司 江苏省张家港保税区扬子江化学工业园长江路15号 215634 电话: +86 512 58937988 传真: +86 512 58937986
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Emergency telephone number (with hours of operation)	: Jotun Coatings (Taiwan) Ltd. Co. Tel: +886 2 87705061

# Section 2. Hazards identification

<b>Classification of the</b>	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	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
	AQUATIC TOXICITY (ACUTE) - Category 1
	AQUATIC TOXICITY (CHRONIC) - Category 1
CHS label elements	

#### **GHS label elements**

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# Section 2. Hazards identification

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> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>(nervous system)</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
Prevention	:	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face 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.</li> <li>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. P403 + P235 - Keep cool.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	None known.
In compliance	:	IMO Antifouling System Convention compliant AFS/CONF/26 + IMO MEPC.331(76).

# Section 3. Composition/information on ingredients

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

Product name		% (w/w)	CAS number		Туре
dicopper oxide		≥25 - ≤50	1317-39-1		[1] [2]
xylene		≥10 - ≤25	1330-20-7		[1] [2]
colophony		≤10	8050-09-7		[1]
ethylbenzene		<10	100-41-4		[1] [2]
zineb		≤5	12122-67-7		[1]
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# Section 3. Composition/information on ingredients

Section 5. Composition/milo		ingreulents	
copper pyrithione	<3	14915-37-8	[1]
zinc oxide	≤3	1314-13-2	[1]
1-methoxy-2-propanol	≤3	107-98-2	[1] [2]
产品名称	% (w/w)	CAS号码	类型
氧化亚铜	≥25 - ≤50	1317-39-1	[1] [2]
二甲苯	≥10 - ≤25	1330-20-7	[1] [2]
松香	≤10	8050-09-7	[1]
乙苯	<10	100-41-4	[1] [2]
代森锌	≤5	12122-67-7	[1]
铜吡硫	<3	14915-37-8	[1]
氧化锌	≤3	1314-13-2	[1]
1-甲氧基-2-丙醇	≤3	107-98-2	[1] [2]

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.

**Type** 

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## Section 4. First aid measures

Description of necessary firs	t 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.

# Section 4. First aid measures

Section 4. First and	uı	116434163
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.
Most important symptoms/er	ffec	ts, acute and delayed
Potential acute health effec	<u>ts</u>	
Eye contact	1	Causes serious eye damage.
Inhalation	1	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	1	Harmful if swallowed.
Over-exposure signs/symp	tom	<u>IS</u>
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
Indication of immediate med	<u>lica</u>	attention and special treatment needed, if necessary
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	1	No specific treatment.
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.

#### See toxicological information (Section 11)

# Section 5. Firefighting measures

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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	: 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

Personal precautions, protective equipment and emergency procedures	:	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.
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	ntai	inment 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.

# Section 7. Handling and storage

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Precautions for safe handling	g	
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	TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). [Copper
	fume]
	STEL: 0.6 mg/m <sup>3</sup> 15 minutes. Form: Fume TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
xylene	TW Minstry of Labor, labor permissible
	workplace exposure standards, allowable
	concentration (Taiwan, 3/2018).
	STEL: 542.5 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
ethylbenzene	TW Minstry of Labor, labor permissible
	workplace exposure standards, allowable
	concentration (Taiwan, 3/2018).
	STEL: 125 ppm 15 minutes.
	STEL: 542.5 mg/m <sup>3</sup> 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
1-methoxy-2-propanol	TW Minstry of Labor, labor permissible workplace exposure standards, allowable
	concentration (Taiwan, 3/2018).
	STEL: 461.25 mg/m <sup>3</sup> 15 minutes.
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# Section 8. Exposure controls/personal protection

		STEL: 125 ppm 15 minutes.
		TWA: 369 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
Biological exposure indice		
No exposure indices known		
Appropriate engineering controls	ventilation or o contaminants l also need to ke	adequate ventilation. Use process enclosures, local exhaust ther engineering controls to keep worker exposure to airborne below any recommended or statutory limits. The engineering controls eep gas, vapour or dust concentrations below any lower explosive blosion-proof ventilation equipment.
Individual protection measu		
Respiratory protection	appropriate sta	nazard and potential for exposure, select a respirator that meets the andard or certification. Respirators must be used according to a tection program to ensure proper fitting, training, and other important
Hand protection	resistance to a The breakthrou The instruction storage, maint Gloves should material. Always ensure correctly. The performan damage and p Barrier creams applied once e Wear suitable Not recommen May be used, g 0.5 mm) Recommended nitrile rubber (>	e glove material or combination of materials that will give unlimited ny individual or combination of chemicals. Ugh time must be greater than the end use time of the product. Is and information provided by the glove manufacturer on use, enance and replacement must be followed. be replaced regularly and if there is any sign of damage to the glove that gloves are free from defects and that they are stored and used acc or effectiveness of the glove may be reduced by physical/chemical oor maintenance. may help to protect the exposed areas of the skin but should not be xposure has occurred. gloves tested to ISO 374-1:2016. aded, gloves(breakthrough time) < 1 hour: butyl rubber (> 0.4 mm) gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), PVC (> d, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), > 0.4 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), ol (PVA) (> 0.3 mm)
	penetration, se	e of glove materials, with focus on chemical resistance and time of ek advice by the supplier of chemical resistant gloves. check that the final choice of type of glove selected for handling this
	product is the I	most appropriate and takes into account the particular conditions of ed in the user's risk assessment.
Eye protection	assessment in gases or dusts unless the ass	r complying to ISO 16321-1:2022 should be used when a risk dicates this is necessary to avoid exposure to liquid splashes, mists, . If contact is possible, the following protection should be worn, essment indicates a higher degree of protection: chemical splash face shield. If inhalation hazards exist, a full-face respirator may be id.
Body protection	being performe before handling wear anti-station	ctive equipment for the body should be selected based on the task ed and the risks involved and should be approved by a specialist g this product. When there is a risk of ignition from static electricity, c protective clothing. For the greatest protection from static othing should include anti-static overalls, boots and gloves.
Other skin protection	selected based	otwear and any additional skin protection measures should be I on the task being performed and the risks involved and should be specialist before handling this product.

# 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.

# Section 9. Physical and chemical properties and safety characteristics

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

#### **Appearance**

Physical state	: Liquid.
Colour	: Red
Odour	: Characteristic.
Odour threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not applicable.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Closed cup: 27°C (80.6°F)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: 0.8 - 13.74%
Vapour pressure	:

#### Vapour Pressure at 20°C Vapour pressure at 50°C **Ingredient name** kPa Method mm Hg kPa **Method** mm Hg 5.7 ethanol 42.95 n-butyl acetate 11.25 1.5 DIN EN 13016-2 9.3 1.2 ethylbenzene 8.5 1.1 1-methoxy-2-propanol 6.7 0.89 xvlene 2-methoxy-1-methylethyl acetate 2.7 0.36 **OECD 104** 2.5 0.33 hydrocarbons, C9, aromatics 0.82 0.11 tetraethyl silicate 0 colophony 0 0 propylidynetrimethanol 0 **Relative vapour density** ÷ Not available. 1.68 g/cm<sup>3</sup> Density ŝ Solubility(ies) t

Media	Result
	Not soluble Not soluble
artition coefficient: n- : Not a	applicable.

octanol/water

Auto-ignition temperature :

# Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
zineb	149	300.2	
tetraethyl silicate	222	431.6	
1-methoxy-2-propanol	270	518	
hydrocarbons, C9, aromatics	280 to 470	536 to 878	
2-methoxy-1-methylethyl acetate	333	631.4	DIN 51794
n-butyl acetate	415	779	EU A.15
xylene	432	809.6	
ethylbenzene	432.22	810	
ethanol	455	851	DIN 51794

#### **Decomposition temperature** : Not available.

Viscosity : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) Particle characteristics

Median particle size

: Not applicable.

# Section 10. Stability and reactivity 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.

# Incompatible materials : Reactive or incompatible with the following materials: oxidising materials

Hazardous decomposition : 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	-
zineb	LD50 Oral	Rat	1850 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	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

Irritation/Corrosion

# Section 11. Toxicological information

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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	-
	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**

Not available.

#### **Carcinogenicity**

Not available.

#### **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	-

#### Teratogenicity

Not available.

#### 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)

# Section 11. Toxicological information

Product/ingredient name		Route of exposure	Target organs
	Category 2 Category 1		hearing organs nervous system

#### **Aspiration hazard**

Product/ingredient name	Result	
,	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

Information on likely routes of exposure	: Not available.
Potential acute health effects	<u>1</u>
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 phy	sical, 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

Delayed and immediate effect	ts 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.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	

# Section 11. Toxicological information

General	: 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.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

#### Numerical measures of toxicity

#### 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)
SeaQuantum Pro U	1260.3	4372.0	N/A	94.7	2.1
dicopper oxide	500	N/A	N/A	N/A	3.34
xylene	N/A	1100	N/A	20	N/A
ethylbenzene	N/A	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

# Section 12. Ecological information

#### **Toxicity**

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
-	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 subcapitata - Exponential growth phase	72 hours

#### Persistence and degradability

# Section 12. Ecological information

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

#### **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

#### Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: 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. 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.

# Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	Paint	Paint. Marine pollutant (dicopper oxide)	Paint
Transport hazard class(es)	3		3
Packing group		Ш	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Date of issue/Date of revision

# Section 14. Transport information

-		
ADR/RID	:	Tunnel restriction code: (D/E) Hazard identification number: 30
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

#### TCCSCA List of toxic chemicals

Not applicable.

#### **TCCSCA List of concerned chemicals**

Not applicable.

OSHA Enforcement Rules Article 28	: This product contains substances "Specially hazardous to health": xylene, n-butyl acetate, lead.
OSHA Article 29	: Employers shall not employ persons under the age of 18 to perform any potentially dangerous or harmful work involving this product. (OSHA Art. 29 par 3)
OSHA Article 30	: Employers shall not employ female laborers who are still within their first postpartum year to perform potentially dangerous and hazardous work involving this product. (OSHA Art. 30 second part, par 2)
Organic solvent poisoning prevention rule	: Type 2

#### Priority management chemicals, Article 2

#### CMR chemical substances, category 1 (Article 2.2 (I))

: Applicable

#### Chemical substances possessing physical hazards or health hazards (Article 2.2 (II))

Ingredient name	Name on list	Concentration
viene 1-methoxy-2-propanol 2-methoxy-1-methylethyl acetate n-butyl acetate	propylene glycol monomethyl ether	≥10 - ≤25 ≤3 ≤0.3 ≤0.1

#### 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

#### Procedure used to derive the classification

	Justification	
irritation) - Category 3	gory 4 ategory 5 - Category 4 NN - Category 2 IRRITATION - Category 1 ory 1 Category 2 OXICITY - SINGLE EXPOSURE (Respiratory tract OXICITY - REPEATED EXPOSURE - Category 2 - Category 1	On basis of test data Calculation method Calculation method
References Organisation that prepared the SDS	<ul> <li>Not available.</li> <li>Jotun AS, Norway +47 33 45 70 00</li> </ul>	
<u>History</u>		
Date of printing	: 14.08.2023	
Date of previous issue	: 18.07.2023	
Version	: 1.02	
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 = Internediate 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) N/A = Not available SGG = Segregation Group UN = United Nations	

Indicates information that has changed from previously issued version.

#### Notice to reader

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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.