

Antifouling Seavictor 40

Section 1. Identification

Product name : Antifouling Seavictor 40

Product code : 375

Other means of identification

: Not available.

Product description : Paint.

Product type : Liquid.

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

Identified uses

Use in coatings - Industrial use

Supplier : Jotun Australia Pty. Ltd. Proline Protective Coatings

59 Calarco Drive, 176 Ossie James Drive, Derrimut, VIC 3026, Hamilton Airport,

Australia Hamilton 3282

New Zealand

Phone: + 61 39314 0722

E-mail: SDSJotun@jotun.com Email: info@prolinepc.nz

Contact: +(64) 0508568867

Emergency telephone number (with hours of operation): Medical Emergencies 24 hours:

Poisons Information Centre (New Zealand) 0800 764

766

e-mail address of person responsible for this SDS : sdsjotun@jotun.com

Section 2. Hazards identification

HSNO Classification : FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (oral) - Category 4
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2
SKIN SENSITISATION - Category 1
CARCINOGENICITY - Category 2

REPRODUCTIVE TOXICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : Warning.

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Section 2. Hazards identification

Hazard statements : H226 - Flammable liquid and vapour.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

H371 - May cause damage to organs.

H373 - May cause damage to organs through prolonged or repeated exposure.

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

Precautionary statements

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. P260 - Do not breathe vapour or spray.

P270 - Do not eat, drink or smoke when using this product.

Response : P391 - Collect spillage.

> P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor. 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 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage : Not applicable.

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

national and international regulations.

Symbol









Other hazards which do not : None known.

result in classification

HSNO Approval Number

: HSR000931

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

Section 3. Composition/information on ingredients

Substance/mixture : Mixture Other means of

identification

In compliance

: Not available.

Ingredient name	% (w/w)	CAS number
øicopper oxide	≥30 - ≤60	1317-39-1
xylene	≥10 - ≤27	1330-20-7
zinc oxide	≥10 - ≤30	1314-13-2
colophony	≤10	8050-09-7
Benzene, ethyl-	≤5	100-41-4
hydrocarbons, C9, aromatics	≤5	64742-95-6
triaryl phosphates	≤3	-
1-methoxy-2-propanol	≤3	107-98-2
carbon black	<1	1333-86-4

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Section 3. Composition/information on ingredients

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 necessary first aid measures

Inhalation : Remov

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. If necessary, call a poison center or physician. 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.

Ingestion

: 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. Get medical attention. If necessary, call a poison center or 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.

Skin contact

: 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. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

: 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. Get medical attention. If necessary, call a poison center or physician.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion: Harmful if swallowed.

Skin contact: May cause damage to organs following a single exposure in contact with skin.

Causes skin irritation. May cause an allergic skin reaction.

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

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Section 4. First aid measures

: Adverse symptoms may include the following: pain or irritation

watering redness

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments

: No specific treatment.

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. 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

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable

: Use dry chemical, CO2, water spray (fog) or foam.

Not suitable

: 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 metal oxide/oxides

Hazchem code : •3Y

Special precautions for firefighters

: 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

Section 6. Accidental release measures

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. Avoid breathing 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".

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.

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Section 6. Accidental release measures

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 noncombustible, 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

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 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.

including any incompatibilities

Conditions for safe storage, : 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 wellventilated 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

Date of issue/Date of revision: Version : 1.04 23.10.2023

Section 8. Exposure controls/personal protection

### HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). [copper and its inorganic compounds as Cu] Skin sensitiser. WES-TWA: 0.01 mg/m³, (as Cu) 8 hours. Form: The value for respirable dust. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). [xylene (o-, m-, p- isomers)] WES-TWA: 217 mg/m³ 8 hours. Colophony ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitiser. Inhalation sensitiser. TWA: 0.001 mg/m³, (as total Resin acids) 8 hours. Form: Inhalable fraction HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). Absorbed through skin. WES-TWA: 20 ppm 8 hours. WES-TWA: 20 ppm 8 hours. WES-TWA: 88 mg/m³ 8 hours. WES-TWA: 88 mg/m³ 15 minutes. WES-STEL: 40 ppm 15 minutes. WES-STEL: 40 ppm 15 minutes. WES-STEL: 553 mg/m³ 15 minutes. WES-STEL: 550 mg/m³ 15 minutes. WES-STEL: 550 mg/m³ 15 minutes. WES-STEL: 150 ppm 15 minutes. WES-STEL: 150 ppm 15 minutes. WES-STEL: 150 ppm 15 minutes.	Ingredient name	Exposure limits
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Workplace exposure standards (WES)		, ,
(New Zealand, 4/2022).		
WES-TWA: 3 mg/m ³ 8 hours.		

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.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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.

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Section 8. Exposure controls/personal protection

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.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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.

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

Not recommended, gloves(breakthrough time) < 1 hour: butyl rubber (> 0.4 mm), PVC (> 0.5 mm), neoprene (> 0.35 mm)

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

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

: 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.

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 : Various colours.

Odour : Characteristic.

Odour threshold : Not available.

pH : Not applicable.

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Section 9. Physical and chemical properties and safety characteristics

Melting point/freezing point May start to solidify at the following temperature: <-60°C (<-76°F) This is based on

data for the following ingredient: hydrocarbons, C9, aromatics. Weighted average:

-90.88°C (-131.6°F)

Boiling point, initial boiling point, and boiling range

: Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted

average: 140.02°C (284°F)

Flash point : Closed cup: 27°C (80.6°F)

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

butyl acetate

Flammability : Not available. Lower and upper explosion

: 0.8 - 13.74%

limit/flammability limit Vapour pressure

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

average: 0.89 kPa (6.68 mm Hg) (at 20°C)

Relative vapour density : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.64 (Air = 1)

Relative density : Not available.

Density : 1.789 to 1.844 g/cm³

: Insoluble in the following materials: cold water and hot water. Solubility

Solubility in water : Not available. Partition coefficient: n-Not available.

octanol/water

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

Decomposition temperature : Not available.

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

Flow time (ISO 2431) : Not available.

Particle characteristics

Auto-ignition temperature

Median particle size : Not applicable.

Section 10. Stability and reactivity

Chemical stability : The product is stable.

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

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 Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

Hazardous decomposition products

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

Section 11. Toxicological information

Information on likely routes of exposure

: No known significant effects or critical hazards. Inhalation

Ingestion : Harmful if swallowed.

: May cause damage to organs following a single exposure in contact with skin. Skin contact

Causes skin irritation. May cause an allergic skin reaction.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Inhalation: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

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

Product/ingredient name	Result	Species	Dose	Exposure
d icopper 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	-
Benzene, ethyl-	LC50 Inhalation Vapour	Rat - Male	17.8 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	-
carbon black	LD50 Oral	Rat	>15400 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	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitisation

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

Potential chronic health effects

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.

Section 11. Toxicological information

Inhalation

Ingestion

Skin contact

Eye contact Carcinogenicity

Mutagenicity

Teratogenicity Developmental effects

Fertility effects

Chronic toxicity

Not available.

Carcinogenicity Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

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

to very low levels.

: No known significant effects or critical hazards.

: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

: No known significant effects or critical hazards.

: Suspected of damaging the unborn child.

: No known significant effects or critical hazards.

: Suspected of damaging fertility.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
dicopper oxide xylene hydrocarbons, C9, aromatics	Category 2 Category 2 Category 3 Category 3	oral, inhalation oral, inhalation -	- Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	,	Route of exposure	Target organs
dicopper oxide	Category 2	oral, inhalation	-
xylene	Category 2	oral, inhalation	-
Benzene, ethyl-	Category 2	-	-

Aspiration hazard

Product/ingredient name hydrocarbons, C9, aromatics

Numerical measures of toxicity

Acute toxicity estimates

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Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Antifouling Seavictor 40	1696.3	3966.4	N/A	380.3	8.1
dicopper oxide	1340	N/A	N/A	N/A	3.34
xylene	500	1100	N/A	N/A	N/A
colophony	2500	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A

Section 12. Ecological information

Ecotoxicity

: 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.

Aquatic and terrestrial 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	48 hours
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
zinc oxide	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.02 mg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata - Exponential	
		growth phase	
Benzene, ethyl-	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
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

Persistence/degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	8.1 to 25.9	low
zinc oxide	-	28960	high
colophony	1.9 to 7.7	-	high
Benzene, ethyl-	3.6	-	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
1-methoxy-2-propanol	<1	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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Section 12. Ecological information

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

Section 14. Transport information

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

Additional information

New Zealand

: The marine pollutant mark is not required when transported by road or rail. Hazchem code •3Y

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.

ADR/RID

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

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

Transport in bulk according: Not available. to IMO instruments

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Section 15. Regulatory information

HSNO Approval Number

: HSR000931 **HSNO Group Standard**

HSNO Classification

HSR000931 Antifouling paint containing 840g/l cuprous oxide and 350 g/l zinc oxide

: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2

REPRODUCTIVE TOXICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 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.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Control of Work Area

A controlled work area is a defined area where the paint is applied. Paint must be prevented from leaving the area (overspray) and entering the environment, or coming into contact with neighbouring boats or bystanders. All application of antifouling paint must take place in the controlled work area. When spray painting, signs must be posted at every entrance to the controlled work area to warn people. Signs must be in place from the time the work is started until it has finished. They must be large enough that they can be read from a distance of at least 10 metres. A sign must:

- warn that a spray paint application is being carried out with paint that is toxic to humans
- identify the person in charge of the application
- state that you cannot enter the controlled work area unless you are wearing the right personal protective equipment.

Section 16. Other information

History

Date of printing 23.10.2023 : 23.10.2023 Date of issue/Date of

revision

: 15.06.2023 Date of previous issue

Version 1.04

Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road 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)

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Section 16. Other information

RID = The Regulations concerning the International Carriage of Dangerous Goods

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by Rail

SGG = Segregation Group UN = United Nations

References : Not available.

✓ 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.