

Summary of product characteristics for a biocidal product

Product name: SeaForce EU

Product type(s): PT21 - Antifouling products (Other biocidal products)

Authorisation number: NO-2023-0253

R4BP 3 asset reference number: NO-0022018-0026

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Administrative information

1.1. Trade names of the product

SeaForce EU

1.2. Authorisation holder

Name and address of the authorisation holder	Name	Jotun A/S
	Address	P.O.Box 2021 NO-3202 Sandefjord Norway
Authorisation number	NO-2023-0253 1-15	

R4BP 3 asset reference number	NO-0022018-0026
Date of the authorisation	21/09/2023
Expiry date of the authorisation	21/09/2033

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Jotun A/S
Address of the manufacturer	P.O. Box 2021 NO-3202 Sandefjord Norway
Location of manufacturing sites	Industriveien 70 3219 Sandefjord Norway

Name of the manufacturer	Jotun Paints (Europe) Ltd.
Address of the manufacturer	Stather Road, Flixborough, Scunthorpe DN15 8RR North Lincolnshire United Kingdom
Location of manufacturing sites	Stather Road, Flixborough, Scunthorpe DN15 8RR North Lincolnshire United Kingdom

Name of the manufacturer	Jotun Ibercia S.A.
Address of the manufacturer	Poligon Industrial Santa Rita Calle Estàtica, no 3 08755 Castellbisbal Barcelona Spain
Location of manufacturing sites	Poligon Industrial Santa Rita Calle Estàtica, no 3 08755 Castellbisbal Barcelona Spain

Name of the manufacturer	Jotun Boya San. ve Ticaret A.S.
Address of the manufacturer	Balabandere Caddesi Hilpark Suites Sitesi No. 10, Istinye 34460 Sariver - Istanbul Turkey
Location of manufacturing sites	Balabandere Caddesi Hilpark Suites Sitesi No. 10, Istinye 34460 Sariver - Istanbul Turkey

1.4. Manufacturer(s) of the active substance(s)

Active substance	1289 - Dicopper oxide
Name of the manufacturer	RCL Ireland (Acting for American Chemet Corporation (United States)) Ireland
Address of the manufacturer	145 Hwy 282 MT 59635 East Helena United States
Location of manufacturing sites	American Chemet Corporation 145 Hwy 282 East Helena United States

Active substance	1289 - Dicopper oxide
Name of the manufacturer	Nordox
Address of the manufacturer	Ostensjoveien 13 N-0661 Oslo Norway
Location of manufacturing sites	Ostensjoveien 13 N-0661 Oslo Norway
Active substance	1289 - Dicopper oxide
Name of the manufacturer	Cosaco GmbH
Address of the manufacturer	Singapurstrasse 1 20457 Hamburg Germany
Location of manufacturing sites	c/o Aurubis AG, Hovestrasse 50 20539 Hamburg Germany

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Dicopper oxide		Active Substance	1317-39-1	215-270-7	31,97
Xylenes		Non-active substance	1330-20-7	215-535-7	13,85
Ethylbenzene		Non-active substance	100-41-4	202-849-4	4,62
Aromatic hydrocarbons C9		Non-active substance	128601-23-0	918-668-5	1,9
2-methoxy-1-methylethyl acetate		Non-active substance	108-65-6	203-603-9	0
Rosin		Non-active substance	8050-09-7	232-475-7	9,26
Zinc oxide		Non-active substance	1314-13-2	215-222-5	7,67
Tetraethyl silicate	Tetraethyl silicate	Non-active substance	78-10-4	201-083-8	0
1-methoxy-2-propanol	1-methoxy-2-propanol	Non-active substance	107-98-2	203-539-1	2,09

2.2. Type of formulation

AL - Any other liquid

3. Hazard and precautionary statements

Hazard statements

Flammable liquid and vapour.
Harmful if swallowed.
Causes serious eye damage.
Causes skin irritation.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

Wear protective gloves.
Wear eye or face protection.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. -
No smoking.
Avoid release to the environment.
Avoid breathing vapours.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Collect spillage.
Take off contaminated clothing. And wash it before reuse.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice.
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.
Dispose of contents to all local, regional, national and international regulations.
Dispose of container to all local, regional, national and international regulations.

4. Authorised use(s)

4.1 Use description

Use 1 - Use # 15.1 - Professionals - Vessel Cat. 3 and other structures Art. 19(1) authorisation

Product type	PT21 - Antifouling products (Other biocidal products)
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Scientific name: Common name: Slime, Weed (macro algae) and Animals (all development stages) Development stage:
Field(s) of use	Indoor Outdoor The products are used to control the growth and settlement of fouling organisms (microbes and higher forms of plant or animal species) on vessels or other structures used in marine water. Vessel category: 3. Paint for seagoing vessels for trade or business, naval and governmental vessels, and on super yachts (marine water). Other structures in marine water like: Mariculture equipment other than fish nets (such as lobster pots) Buoys and other small objects Sluice doors Harbour constructions Inlet pipes of e.g. cooling systems Marine sensors Offshore constructions The products are not intended for use in aquaculture.
Application method(s)	Method: Painting Detailed description: Brush, roller, airless spray.
Application rate(s) and frequencies	Application Rate: 1.0 L/m ² for Vessel Cat. 3, and 0.08-1.0 L/m ² for other structures Dilution (%): Number and timing of application: Vessel Cat. 3: Drydock interval: 60 months. Max total DFT of 500 µm (five coats of 100 µm or ten coats of 50 µm) . Application rate: 1.0 L/m ² . Other structures: Application rate may vary (0.08-1.0 L/m ²). Please consult with the authorisation holder.

Category(ies) of users

Professional

Pack sizes and packaging material

0.75, 3, 5, 10, 20 litre steel drums.

4.1.1 Use-specific instructions for use

See general instructions for use

4.1.2 Use-specific risk mitigation measuresSpraying and cleaning of spray equipment:

- Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374).
- Chemical goggles or face shield (EN 166).
- A protective coverall (at least type 6, EN-13034) (coverall material to be specified by the authorisation holder within the product information).
- Respiratory protection with an assigned protection factor (APF) of at least 10.

Potman including cleaning spray equipment:

- Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374).
- Chemical goggles or face shield (EN 166).
- A protective coverall (at least type 6, EN-13034) (coverall material to be specified by the authorisation holder within the product information).

Brush and roller application:

- Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374).
- Chemical goggles or face shield (EN 166).
- A protective coverall (at least type 6, EN-13034) (coverall material to be specified by the authorisation holder within the product information).

Sandblasting and gritfilling:

- Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374).
- Chemical goggles or face shield (EN 166).
- A double coverall, a chemically resistant (at least type 3, EN-14605) coverall which is impermeable for the biocidal product (coverall material to be specified by the authorisation holder within the product information) with at least a long-sleeve, long-leg cotton coverall underneath.
- Respiratory protection with an assigned protection factor (APF) of at least 10.

(See also general risk mitigation measures)

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing.

If symptoms: Call 112/ambulance for medical assistance.

If no symptoms: Call a POISON CENTRE or a doctor

(See also general instructions)

4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

See general instructions for waste disposal

4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Conditions of storage:

Keep the containers in a dry, cool, well-ventilated place and away from sources of heat and ignition. Do not store at temperatures above 30°C. Containers must be kept tightly closed.

Claimed shelf-life: 18 months

(See also general instructions)

5. General directions for use

5.1. Instructions for use

The surface must be clean and dry.

Products must be stirred well to a homogenous solution prior to use.

Frequently stirring during use is recommended.

Apply the product uniformly on the surfaces to be treated at the application rate so that efficacy is ensured during at least single fouling season.

The coating must be dry before immersion.

The users should report straightforward to the registration holder in case of inefficacy.

5.2. Risk mitigation measures

Use only outdoors or in a well-ventilated area

Avoid breathing vapor/mist/dust

Avoid contact with skin and eyes.

Wash hands after handling/use.

Wash contaminated clothing before reuse.

Unprotected persons should be kept out of treatment areas.

Avoid release to the environment.

Application, maintenance and repair activities shall (1) be conducted within a contained area to prevent losses and minimize emissions to the environment, meaning (2) on an impermeable hard standing with bunding or (3) on soil covered with an impermeable material. Any losses or waste containing dicopper oxide shall be collected for reuse or disposal.

(See also use specific risk mitigation measures)

5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance.

IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off all contaminated clothing and wash it before reuse. Continue to wash the skin with water for 15 minutes. Call a POISON CENTRE or a doctor.

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112/ambulance for medical assistance.

(See also use specific instructions)

Emergency measures for the environment:

Application solutions must be collected and disposed of as hazardous waste. They must not be released to soil, ground- and surface water or any kind of sewer.

5.4. Instructions for safe disposal of the product and its packaging

Dispose of contents and container in accordance with all local, regional, national and international regulations. Hazardous waste due to toxicity.

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

Keep the containers in a dry, cool, well-ventilated place and away from sources of heat and ignition. Do not store at temperatures above 30°C. Containers must be kept tightly closed.
Claimed shelf-life: 18 months.

(See also use specific instructions)

6. Other information

To be included on the label:

Contains fatty acids, C14-18 and C16-18-unsatd., maleated.

Total binder range (including solvents): 28.00-32.00

