

Summary of product characteristics for a biocidal product family

Family name: Dicopper Oxide/Copper Pyrithione Biocidal Product Family

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

Authorisation number: NO-2023-0246

R4BP 3 asset reference number: NO-0031114-0000

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Part I.- First information level

1. Administrative information

1.1. Family name

Dicopper Oxide/Copper Pyrithione Biocidal Product Family

1.2. Product type(s)

PT21 - Antifouling products (Other biocidal products)

1.3. Authorisation holder

Name and address of the authorisation holder

Name	NetKem AS
Address	Slalomveien 1 NO-1410 Kolbotn Norway

Authorisation number

NO-2023-0246

R4BP 3 asset reference number

NO-0031114-0000

Date of the authorisation

15/06/2023

Expiry date of the authorisation

15/06/2033

1.4. Manufacturer(s) of the biocidal products

Name of the manufacturer

NetKem AS

Address of the manufacturer

Slalåmveien 1 1410 Kolbotn Norway

Location of manufacturing sites

Østensjøveien 13 N-0661 Oslo Norway

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

Active substance	1289 - Dicopper oxide
Name of the manufacturer	Nordox AS
Address of the manufacturer	Østensjøveien 13 N-0661 Oslo Norway
Location of manufacturing sites	Østensjøveien 13 N-0661 Oslo Norway
Active substance	1275 - Bis(1-hydroxy-1H-pyridine-2-thionato- O,S)copper (Copper pyriithione)
Name of the manufacturer	YOU Solutions Germany GmbH
Address of the manufacturer	Freundallee 9a DE 30173 Hannover Germany
Location of manufacturing sites	Arch Chemicals (China) Co., Ltd, No. 9 Quingquiu Street, Suzhou Industrial Park 215024 CN-Jiangsu Province China

2. Product family composition and formulation

2.1. Qualitative and quantitative information on the composition of the family

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Dicopper oxide		Active Substance	1317-39-1	215-270-7	18 - 21,5
Bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper (Copper pyriithione)		Active Substance	14915-37-8	238-984-0	0,24 - 0,75

2.2. Type(s) of formulation

SD - Suspension concentrate for direct application

Part II.- Second information level - meta SPC(s)

1. Meta SPC administrative information

1.1. Meta SPC identifier

Meta SPC 1

1.2. Suffix to the authorisation number

1-1

1.3 Product type(s)

PT21 - Antifouling products (Other biocidal products)

2. Meta SPC composition

2.1. Qualitative and quantitative information on the composition of the meta SPC

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Dicopper oxide		Active Substance	1317-39-1	215-270-7	18 - 18
Bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper (Copper pyriithione)		Active Substance	14915-37-8	238-984-0	0,24 - 0,24

2.2. Type(s) of formulation of the meta SPC

Formulation(s)

SD - Suspension concentrate for direct application

3. Hazard and precautionary statements of the meta SPC

Hazard statements

May be corrosive to metals.
Causes serious eye damage.

Precautionary statements

Very toxic to aquatic life with long lasting effects. Contains a mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (CMIT/MIT) (3:1). May produce an allergic reaction.
Store in a corrosion resistant container/ container with a resistant inner liner. Avoid release to the environment. Wear eye or face protection. 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. Absorb spillage to prevent material damage. Collect spillage. Dispose of contents to in accordance with local/ regional/national/international regulation. Dispose of container to in accordance with local/ regional/national/international regulation.

4. Authorised use(s) of the meta SPC

4.1 Use description

Use 1 - Treatment of Aquaculture Nets

Product type	PT21 - Antifouling products (Other biocidal products)
Where relevant, an exact description of the authorised use	Protection against fouling of nets used in aquaculture.
Target organism(s) (including development stage)	Scientific name: Slime, Weed (macro algae) and Animals Common name: Slime, Weed (macro algae) and Animals Development stage: n/a
Field(s) of use	Indoor Outdoor Antifouling products for protection against marine growth on fish farming nets.
Application method(s)	Method: Dipping or by vacuum treatment Detailed description: <ul style="list-style-type: none">• Stir vigorously for 20 minutes with an appropriate stirring mechanism before use to achieve a homogenous solution after storage.• To be used undiluted.

	<ul style="list-style-type: none"> • Density and viscosity must be measured to ensure that the product is homogeneous prior to treatment. The measurements must be within the specification of this authorisation. Please follow the manufacturer's directions for how to measure density and viscosity. • Let the net soak in the product for a minimum of 20 minutes to ensure that 0.8 - 1.2 kg of product is applied per 1 kg of dry net. Then let the net hang to dry or use a closed drum system. • IMPORTANT! Nets must be completely dry before they are put into the sea. • The container should be tilted a little for complete emptying and may be rinsed with approximately 5% water.
Application rate(s) and frequencies	Application Rate: 0.8 -1.2 kg of RTU product per 1 kg of dry net Dilution (%): RTU product Number and timing of application: See other information
Category(ies) of users	Industrial
Pack sizes and packaging material	200L Plastic Drum (HDPE) with "fast seal" lid (nylon) 1000L Intermediate Bulk Containers (HDPE contained within a steel cage) with "fast seal" lid (nylon). Plastic seal covering outlet

4.1.1 Use-specific instructions for use

See Section 5.1

4.1.2 Use-specific risk mitigation measures

See Section 5.2

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

See Section 5.3



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

See Section 5.4

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

See Section 5.5

5. General directions for use of the meta SPC

5.1. Instructions for use

Stir vigorously for 20 minutes with an appropriate stirring mechanism before use to achieve a homogenous solution after storage. To be used undiluted.
Density and viscosity must be measured to ensure that the product is homogeneous prior to treatment. The measurements must be within the specification of this authorisation. Please follow the manufacturer's directions for how to measure density and viscosity.
Let the net soak in the product for a minimum of 20 minutes to ensure that 0.8 - 1.2 kg of product is applied per 1 kg of dry net. Then let the net hang to dry or use a closed drum system.
IMPORTANT! Nets must be completely dry before they are put into the sea.
The container should be tilted a little for complete emptying and may be rinsed with approximately 5% water.

5.2. Risk mitigation measures

Avoid breathing dust/mist.
Avoid contact with skin and eyes. Wash hands after handling and use.
Wash contaminated clothing before reuse.
Personal protective equipment to be worn:

- Hand protection: Wear protective chemical resistant gloves (neoprene, nitrile rubber or butylrubber protective gloves (EN 374)).
- Eye protection: Wear chemical goggles or face shield (EN 166).
- Skin and body protection: Wear 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: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

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 the antifouling active substances shall be collected for reuse or disposal.

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

First aid measures:

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.

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.

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.

Emergency measures for the environment:

Methods and materials for containment and cleaning up: Use absorbent material and dispose of material or solid residues at an authorised site.

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

Product/Packaging: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Hazardous waste due to toxicity. Avoid release to the environment.

Waste disposal number of unused product: UN number 1760/European waste code EWC 02 01 99.

Recommended container return system: IBC containers are returned and recycled through a suitable return system.

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

Conditions of Storage:

PROTECT FROM FROST.

Handle and store above +4°C and below +30°C

Protect from sunlight.

Shelf Life: 6 months

6. Other information

The label of the biocidal product must provide advice on how to perform the deployment of the treated nets. As a minimum, the label must specify that suitable chemical protective gloves and eye protection (goggles) should be used during net deployment. Other PPE should be specified by the authorisation holder's recommendation based on the performed risk assessments.

The label of the biocidal product should also provide advice on the deployment time for treated nets i.e., that the nets should be deployed for 270 days before they are taken up to be cleaned and reimpregnated-

The label of the biocidal product must inform that high pressure water jet cleaning of treated nets should not be performed on site.

Cleaning impregnating machine

The impregnating machine is drained and emptied after each impregnating cycle, with little paint residue remaining in the machine following this process. It is not necessary to clean the machine after each treatment. The machine is cleaned either if the machine is not to be used again for some days or if another type of antifouling paint, or coating, is going to be used. The machine is cleaned using small amounts of water only. The water is pumped through the machine, to remove paint residues from the machine, and from the pipes, valves and pumps. Where it is necessary to dispose of this water it should be disposed of at a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Cleaning dipping tank

The dip tank is only cleaned periodically, typically every 4-8 months. Similar to the impregnation machine the dipping tank is hosed with water to remove sediment and dirt that may have come into the tank from the nets. This process is anticipated to remove the majority of paint residue with little paint residue left in the settlement and dirt on the bottom of the tank. Remaining dirt and sediment is manually removed at the end of the process. This last operation requires that the worker wears appropriate protective clothing. Waste product from the impregnating machines or dip tanks used during the application phase is collected. Where it is necessary to dispose of this water it should be disposed of at a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

7. Third information level: individual products in the meta SPC

7.1 Trade name(s), authorisation number and specific composition of each individual product

Trade name(s)	Netwax NI Gold (Light)	Market area: EU
Authorisation number <small>(R4BP 3 asset reference number - National Authorisation)</small>	NO-0031114-0001 1-1	

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Dicopper oxide		Active Substance	1317-39-1	215-270-7	18
Bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper (Copper pyriithione)		Active Substance	14915-37-8	238-984-0	0,24

1. Meta SPC administrative information

1.1. Meta SPC identifier

Meta SPC 2

1.2. Suffix to the authorisation number

1-2

1.3 Product type(s)

PT21 - Antifouling products (Other biocidal products)

2. Meta SPC composition

2.1. Qualitative and quantitative information on the composition of the meta SPC

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Dicopper oxide		Active Substance	1317-39-1	215-270-7	21,5 - 21,5
Bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper (Copper pyriithione)		Active Substance	14915-37-8	238-984-0	0,75 - 0,75

2.2. Type(s) of formulation of the meta SPC

Formulation(s)

SD - Suspension concentrate for direct application

3. Hazard and precautionary statements of the meta SPC

Hazard statements

May be corrosive to metals.
Causes serious eye damage.
Very toxic to aquatic life with long lasting effects.
Contains a mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (CMIT/MIT) (3:1). May produce an allergic reaction.

Precautionary statements

Store in a corrosion resistant container/ container with a resistant inner liner.
Avoid release to the environment.
Wear eye or face protection.
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.
Absorb spillage to prevent material damage.
Collect spillage.
Dispose of contents to in accordance with local/ regional/national/international regulation.
Dispose of container to in accordance with local/ regional/national/international regulation.

4. Authorised use(s) of the meta SPC

4.1 Use description

Use 1 - Treatment of Aquaculture Nets

Product type

PT21 - Antifouling products (Other biocidal products)

Where relevant, an exact description of the authorised use	Protection against fouling of nets used in aquaculture.
Target organism(s) (including development stage)	Scientific name: Slime, Weed (macro algae) and Animals Common name: Slime, Weed (macro algae) and Animals Development stage: n/a
Field(s) of use	Indoor Outdoor Antifouling products for protection against marine growth on fish farming nets.
Application method(s)	Method: Dipping or by vacuum treatment Detailed description: <ul style="list-style-type: none"> • Stir vigorously for 20 minutes with an appropriate stirring mechanism before use to achieve a homogenous solution after storage. • To be used undiluted. • Density and viscosity must be measured to ensure that the product is homogeneous prior to treatment. The measurements must be within the specification of this authorisation. Please follow the manufacturer's directions for how to measure density and viscosity. • Let the net soak in the product for a minimum of 20 minutes to ensure that 0.8 - 1.2 kg of product is applied per 1 kg of dry net. Then let the net hang to dry or use a closed drum system. • IMPORTANT! Nets must be completely dry before they are put into the sea. • The container should be tilted a little for complete emptying and may be rinsed with approximately 5% water.
Application rate(s) and frequencies	Application Rate: 0.8 -1.2 kg of RTU product per 1 kg of dry net Dilution (%): RTU product Number and timing of application: See other information
Category(ies) of users	Industrial
Pack sizes and packaging material	200L Plastic Drum (HDPE) with "fast seal" lid (nylon) 1000L Intermediate Bulk Containers (HDPE contained within a steel cage) with "fast seal" lid (nylon). Plastic seal covering outlet

4.1.1 Use-specific instructions for use

See Section 5.1

4.1.2 Use-specific risk mitigation measures

See Section 5.2

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

See Section 5.3

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

See Section 5.4

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

See Section 5.5

5. General directions for use of the meta SPC

5.1. Instructions for use

Stir vigorously for 20 minutes with an appropriate stirring mechanism before use to achieve a homogenous solution after storage. To be used undiluted. Density and viscosity must be measured to ensure that the product is homogeneous prior to treatment. The measurements must be within the specification of this authorisation. Please follow the manufacturer's directions for how to measure density and viscosity.

Let the net soak in the product for a minimum of 20 minutes to ensure that 0.8 - 1.2 kg of product is applied per 1 kg of dry net. Then let the net hang to dry or use a closed drum system.
IMPORTANT! Nets must be completely dry before they are put into the sea.
The container should be tilted a little for complete emptying and may be rinsed with approximately 5% water.

5.2. Risk mitigation measures

Avoid breathing dust/mist
Avoid contact with skin and eyes. Wash hands after handling and use.
Wash contaminated clothing before reuse.

Personal protective equipment to be worn:

- Hand protection: Wear protective chemical resistant gloves (neoprene, nitrile rubber or butylrubber protective gloves (EN 374)).
- Eye protection: Wear chemical goggles or face shield (EN 166).
- Skin and body protection: Wear 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: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

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 the antifouling active substances shall be collected for reuse or disposal.

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

First aid measures:

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.

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.

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.

Emergency measures for the environment:

Methods and materials for containment and cleaning up: Use absorbent material and dispose of material or solid residues at an authorised site.

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

Product/Packaging: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Hazardous waste due to toxicity. Avoid release to the environment.
Waste disposal number of unused product: UN number 1760/European waste code EWC 02 01 99.
Recommended container return system: IBC containers are returned and recycled through a suitable return system.

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

Conditions of Storage:
PROTECT FROM FROST.
Handle and store above +4°C and below +30°C
Protect from sunlight.

Shelf Life: 6 months

6. Other information

The label of the biocidal product must provide advice on how to perform the deployment of the treated nets. As a minimum, the label must specify that suitable chemical protective gloves and eye protection (goggles) should be used during net deployment. Other PPE should be specified by the authorisation holder's recommendation based on the performed risk assessments.
The label of the biocidal product should also provide advice on the deployment time for treated nets i.e., that the nets should be deployed for 270 days before they are taken up to be cleaned and reimpregnated-
The label of the biocidal product must inform that high pressure water jet cleaning of treated nets should not be performed on site.

Cleaning impregnating machine

The impregnating machine is drained and emptied after each impregnating cycle, with little paint residue remaining in the machine following this process. It is not necessary to clean the machine after each treatment. The machine is cleaned either if the machine is not to be used again for some days or if another type of antifouling paint, or coating, is going to be used. The machine is cleaned using small amounts of water only. The water is pumped through the machine, to remove paint residues from the machine, and from the pipes, valves and pumps. Where it is necessary to dispose of this water it should be disposed of at a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Cleaning dipping tank

The dip tank is only cleaned periodically, typically every 4-8 months. Similar to the impregnation machine the dipping tank is hosed with water to remove sediment and dirt that may have come into the tank from the nets. This process is anticipated to remove the majority of paint residue with little paint residue left in the settlement and dirt on the bottom of the tank. Remaining dirt and sediment is manually removed at the end of the process. This last operation requires that the worker wears appropriate protective clothing. Waste product from the impregnating machines or dip tanks used during the application phase is collected. Where it is necessary to dispose of this water it should be disposed of at a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Do not apply the products to nets meant for use in Spain.

7. Third information level: individual products in the meta SPC

7.1 Trade name(s), authorisation number and specific composition of each individual product

Trade name(s)	Netwax NI Gold	Market area: EU
Authorisation number <small>(R4BP 3 asset reference number - National Authorisation)</small>	NO-0031114-0002 1-2	

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Dicopper oxide		Active Substance	1317-39-1	215-270-7	21,5
Bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper (Copper pyriithione)		Active Substance	14915-37-8	238-984-0	0,75
