

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOVARIO Aqua 8 409 Rich Gold

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 29.11.2022          |
| 4.1     | 28.11.2022     | 102000031904 | Date of first issue: 30.08.2019 |

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

|              |   |                                |
|--------------|---|--------------------------------|
| Trade name   | : | ROTOVARIO Aqua 8 409 Rich Gold |
| Product code | : | 025425KX0                      |

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

|                                 |   |                            |
|---------------------------------|---|----------------------------|
| Use of the<br>Substance/Mixture | : | Colouring agents, pigments |
|---------------------------------|---|----------------------------|

#### 1.3 Details of the supplier of the safety data sheet

|   |   |  |
|---|---|--|
| Company   | : | ECKART GmbH<br>Guentersthal 4<br>91235 Hartenstein |
| Telephone   | : | +499152770   |
| Telefax   | : | +499152777008                                      |
| E-mail address of person<br>responsible for the SDS | : | msds.eckart@altana.com                             |

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)  
Call and response in your language is possible.  
Contract no.: ECKART29003-NCEC.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|   |  |
|---|--|
| Acute toxicity, Category 4                        | H302: Harmful if swallowed.                                    |
| Eye irritation, Category 2                        | H319: Causes serious eye irritation.                           |
| Short-term (acute) aquatic hazard,<br>Category 1  | H400: Very toxic to aquatic life.                              |
| Long-term (chronic) aquatic hazard,<br>Category 1 | H410: Very toxic to aquatic life with long lasting<br>effects. |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H302  
H319  
H410

Harmful if swallowed.  
Causes serious eye irritation.  
Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

**Prevention:**  
P264  
P273  
P280  
**Response:**  
P337 + P313  
  
P391  
**Disposal:**  
P501

Wash skin thoroughly after handling.  
Avoid release to the environment.  
Wear eye protection/ face protection.  
  
If eye irritation persists: Get medical advice/  
attention.  
Collect spillage.  
  
Dispose of contents/ container to an  
approved waste disposal plant.

Hazardous components which must be listed on the label:

Copper

### Additional Labelling

EUH208      Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

### 2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification<br>REGULATION (EC)<br>No 1272/2008                    | Concentration<br>(% w/w) |
|---------------|---|--|--------------------------|
| Copper        | 7440-50-8<br>231-159-6<br>01-2119480154-42            | Acute Tox. 4; H302<br>Eye Irrit. 2; H319<br>Aquatic Acute 1;<br>H400 | >= 25 - < 50             |

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|   |  |   |                          |
|---|--|---|--------------------------|
|   |  | Aquatic Chronic 1;<br>H410  |                          |
| zinc powder — zinc dust<br>(stabilised)   | 7440-66-6<br>231-175-3<br>030-001-01-9<br>01-2119467174-37 | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410  | $\geq 20 - < 25$         |
| docusate sodium   | 577-11-7<br>209-406-4                                      | Skin Irrit. 2; H315<br>Eye Dam. 1; H318   | $\geq 1 - < 3$           |
| octadecylamine  | 124-30-1<br>204-695-3<br>612-282-00-8<br>01-2119473804-32  | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410   | $\geq 0.25 - < 1$        |
| 1,2-benzisothiazol-3(2H)-one  | 2634-33-5<br>220-120-9<br>613-088-00-6                     | Acute Tox. 4; H302<br>Acute Tox. 2; H330<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411                       | $\geq 0.0025 - < 0.025$  |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9<br>613-167-00-5                                 | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 2; H310<br>Skin Corr. 1C; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410 | $\geq 0.0002 - < 0.0015$ |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move the victim to fresh air.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.

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- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Harmful if swallowed.  
Causes serious eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Special powder against metal fire  
Dry sand  
ABC powder

- Unsuitable extinguishing media : Water  
High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

- Further information : Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Use personal protective equipment.  
Avoid dust formation.

#### 6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.  
  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.  
  
Pick up and transfer to properly labelled containers.  
Do not flush with water.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. No smoking.

Avoid dust formation.

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Hygiene measures : General industrial hygiene practice.

When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.

Dampness : Keep in a dry, cool and well-ventilated place.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                           | CAS-No.   | Value type (Form of exposure) | Control parameters             | Basis   |
|--------------------------------------|-----------|-------------------------------|--------------------------------|---------|
| Copper                               | 7440-50-8 | TWA (Fumes)                   | 0.2 mg/m <sup>3</sup> (Copper) | GB EH40 |
|                                      |           | TWA (Dusts and mists)         | 1 mg/m <sup>3</sup> (Copper)   | GB EH40 |
|                                      |           | STEL (Dusts and mists)        | 2 mg/m <sup>3</sup> (Copper)   | GB EH40 |
| zinc powder — zinc dust (stabilised) | 7440-66-6 | TWA (Inhalable)               | 10 mg/m <sup>3</sup>           | GB EH40 |
|                                      |           | TWA (Respirable fraction)     | 4 mg/m <sup>3</sup>            | GB EH40 |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|--------------------------|-------|
|----------------|---------|-----------------|--------------------------|-------|

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|---|-----------|--------------|----------------------------|-------------|
| Copper  | Workers   | Skin contact | Long-term systemic effects | 137 mg/kg   |
|   | Workers   | Skin contact | Acute systemic effects     | 273 mg/kg   |
|   | Consumers | Inhalation   | Long-term local effects    | 1 mg/m3     |
|   | Consumers | Inhalation   | Acute local effects        | 1 mg/m3     |
|   | Consumers | Skin contact | Long-term systemic effects | 137 mg/kg   |
|   | Consumers | Skin contact | Acute systemic effects     | 273 mg/kg   |
|   | Consumers | Ingestion    | Long-term systemic effects | 0.041 mg/kg |
| zinc powder — zinc dust (stabilised)  | Workers   | Inhalation   | Long-term systemic effects | 5 mg/m3     |
|   | Workers   | Skin contact | Long-term systemic effects | 83 mg/kg    |
|   | Consumers | Inhalation   | Long-term systemic effects | 2.5 mg/m3   |
|   | Consumers | Skin contact | Long-term systemic effects | 83 mg/kg    |
|   | Consumers | Ingestion    | Long-term systemic effects | 0.83 mg/kg  |
| 1,2-benzisothiazol-3(2H)-one  | Workers   | Inhalation   | Long-term systemic effects | 6.81 mg/m3  |
|   | Workers   | Skin contact | Long-term systemic effects | 0.966 mg/kg |
|   | Consumers | Inhalation   | Long-term systemic effects | 1.2 mg/m3   |
|   | Consumers | Skin contact | Long-term systemic effects | 0.345 mg/kg |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Workers   | Inhalation   | Long-term local effects    | 0.02 mg/m3  |
|   | Workers   | Inhalation   | Acute local effects        | 0.04 mg/m3  |
|   | Consumers | Inhalation   | Long-term local effects    | 0.02 mg/m3  |
|   | Consumers | Inhalation   | Acute local effects        | 0.04 mg/m3  |
|   | Consumers | Ingestion    | Long-term local effects    | 0.090 mg/kg |
|   | Consumers | Ingestion    | Acute local effects        | 0.11 mg/kg  |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name | Environmental Compartment | Value       |
|----------------|---------------------------|-------------|
| Copper         | Fresh water               | 0.0078 mg/l |
|                | Marine water              | 0.0052 mg/l |
|                | STP                       | 0.230 mg/l  |
|                | Fresh water sediment      | 87 mg/kg    |
|                | Marine sediment           | 676 mg/kg   |
|                | Soil                      | 65 mg/kg    |

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| zinc powder — zinc dust (stabilised)  | Fresh water                | 0.0206 mg/l   |
|   | Marine water               | 0.0061 mg/l   |
|   | STP                        | 0.100 mg/l    |
|   | Fresh water sediment       | 235.6 mg/kg   |
|   | Marine sediment            | 121 mg/kg     |
|   | Soil                       | 106.8 mg/kg   |
| 1,2-benzisothiazol-3(2H)-one  | Fresh water                | 0.00403 mg/l  |
|   | Marine water               | 0.000403 mg/l |
|   | STP                        | 0.00103 mg/l  |
|   | Intermittent water release | 0.0011 mg/l   |
|   | Intermittent Release       | 0.00011 mg/l  |
|   | Fresh water sediment       | 0.0499 mg/kg  |
|   | Marine sediment            | 0.00499 mg/kg |
|   | Soil                       | 3 mg/kg       |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Fresh water                | 0.00339 mg/l  |
|   | Intermittent water release | 0.00339 mg/l  |
|   | Marine water               | 0.00339 mg/l  |
|   | Intermittent Release       | 0.00339 mg/l  |
|   | STP                        | 0.23 mg/l     |
|   | Soil                       | 0.0471 mg/kg  |
|   | Fresh water sediment       | 0.027 mg/kg   |
|   | Marine sediment            | 0.027 mg/kg   |
|   | Soil                       | 0.01 mg/kg    |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

Remarks

: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace



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should be discussed with the producers of the protective gloves.

- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
Equipment should conform to EN 14387

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- Appearance : Pasty solid
- Colour : gold
- Odour : characteristic
- Odour Threshold : No data available
- pH : substance/mixture is non-soluble (in water)
- Freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : > 100 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : Combustible Solids
- Self-ignition : No data available
- Auto-ignition temperature : No data available
- Smoldering temperature : No data available
- Decomposition temperature : No data available
- Explosive properties : No data available
- Oxidizing properties : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower

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flammability limit

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Bulk density : No data available

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.

No data available

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### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 1,040 mg/kg  
Method: Calculation method

#### Components:

##### **Copper:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

##### **zinc powder — zinc dust (stabilised):**

Acute oral toxicity : (Rat): > 2,000 mg/kg  
  
Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

##### **1,2-benzisothiazol-3(2H)-one:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.  
  
Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is highly toxic after short term inhalation.

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.  
  
Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term inhalation.

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Acute dermal toxicity : Assessment: The component/mixture is highly toxic after single contact with skin.

### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

#### **Components:**

##### **Copper:**

Remarks: May cause skin irritation in susceptible persons.

##### **docusate sodium:**

Result: Skin irritation

##### **octadecylamine:**

Assessment: Irritating to skin.

##### **1,2-benzisothiazol-3(2H)-one:**

Result: Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Remarks: Eye irritation

#### **Components:**

##### **Copper:**

Result: Eye irritation

##### **docusate sodium:**

Result: Corrosive

##### **octadecylamine:**

Assessment: Corrosive

##### **1,2-benzisothiazol-3(2H)-one:**

Result: Corrosive

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Result: Corrosive

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### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

##### **1,2-benzisothiazol-3(2H)-one:**

Result: May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

#### **Components:**

##### **octadecylamine:**

Exposure routes: Ingestion

Target Organs: Liver, digestive system, Immune system

Assessment: May cause damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

##### **octadecylamine:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks: No data available

#### **Components:**

##### **Copper:**

Remarks: No data available

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### **zinc powder — zinc dust (stabilised):**

Remarks: No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

##### **Copper:**

M-Factor (Short-term (acute)  
aquatic hazard) : 10

: 10

: 10

M-Factor (Long-term  
(chronic) aquatic hazard) : 10

10

10

#### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

### **zinc powder — zinc dust (stabilised):**

#### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

#### **octadecylamine:**

M-Factor (Short-term (acute)  
aquatic hazard) : 10

: 10

: 10

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|----------------|------------------------------|-----------------------------|---|

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M-Factor (Long-term  
(chronic) aquatic hazard) : 10

10

10

### Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

### 1,2-benzisothiazol-3(2H)-one:

#### Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

M-Factor (Short-term (acute)  
aquatic hazard) : 100

: 100

: 100

M-Factor (Long-term  
(chronic) aquatic hazard) : 100

100

100

### Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

No data available

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### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

#### Components:

##### **Copper:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

##### **zinc powder — zinc dust (stabilised):**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles  
European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust) containing hazardous substances

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.



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In accordance with local and national regulations.

### SECTION 14: Transport information

#### 14.1 UN number

|      |           |
|------|-----------|
| ADR  | : UN 3077 |
| IMDG | : UN 3077 |
| IATA | : UN 3077 |

#### 14.2 UN proper shipping name

|      |   |
|------|---|
| ADR  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Copper metal powder) |
| IMDG | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Copper metal powder) |
| IATA | : Environmentally hazardous substance, solid, n.o.s.<br>(Copper metal powder) |

#### 14.3 Transport hazard class(es)

|      |     |
|------|-----|
| ADR  | : 9 |
| IMDG | : 9 |
| IATA | : 9 |

#### 14.4 Packing group

|                              |  |
|------------------------------|--|
| ADR                          |  |
| Packing group                | : III  |
| Classification Code          | : M7   |
| Hazard Identification Number | : 90   |
| Labels                       | : 9  |
| Tunnel restriction code      | : (-)  |
| IMDG                         |  |
| Packing group                | : III  |
| Labels                       | : 9  |
| Remarks                      | : IMDG Code segregation group 7 - Heavy metals and their salts |

#### IATA (Cargo)

|                                      |                 |
|--------------------------------------|-----------------|
| Packing instruction (cargo aircraft) | : 956           |
| Packing instruction (LQ)             | : Y956          |
| Packing group                        | : III           |
| Labels                               | : Miscellaneous |

#### IATA (Passenger)

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|   |   |               |
|---|---|---------------|
| Packing instruction<br>(passenger aircraft) | : | 956           |
| Packing instruction (LQ)                    | : | Y956          |
| Packing group                               | : | III           |
| Labels                                      | : | Miscellaneous |

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

Environmentally hazardous : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

### 15.2 Chemical safety assessment

## SECTION 16: Other information

### Full text of H-Statements

|      |  |
|------|--|
| H301 | : Toxic if swallowed.  |
| H302 | : Harmful if swallowed.  |
| H304 | : May be fatal if swallowed and enters airways.                      |
| H310 | : Fatal in contact with skin.  |
| H314 | : Causes severe skin burns and eye damage.                           |
| H315 | : Causes skin irritation.  |
| H317 | : May cause an allergic skin reaction.                               |
| H318 | : Causes serious eye damage.   |
| H319 | : Causes serious eye irritation.                                     |
| H330 | : Fatal if inhaled.  |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H400 | : Very toxic to aquatic life.  |
| H410 | : Very toxic to aquatic life with long lasting effects.              |
| H411 | : Toxic to aquatic life with long lasting effects.                   |

### Full text of other abbreviations

|                 |  |
|-----------------|--|
| Acute Tox.      | : Acute toxicity   |
| Aquatic Acute   | : Short-term (acute) aquatic hazard                      |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard                     |
| Asp. Tox.       | : Aspiration hazard                                      |
| Eye Dam.        | : Serious eye damage                                     |
| Eye Irrit.      | : Eye irritation   |
| Skin Corr.      | : Skin corrosion   |
| Skin Irrit.     | : Skin irritation  |
| Skin Sens.      | : Skin sensitisation                                     |
| STOT RE         | : Specific target organ toxicity - repeated exposure     |
| GB EH40         | : UK. EH40 WEL - Workplace Exposure Limits               |
| GB EH40 / TWA   | : Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL  | : Short-term exposure limit (15-minute reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -

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International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN