



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**SOVEREIGN MOULD ERADICATION ADDITIVE**  
**Supersedes Date:** 05-Jan-2023

**Revision date** 05-Jan-2023  
**Revision Number** 1

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

### 1.1. Product identifier

**Product Name** SOVEREIGN MOULD ERADICATION ADDITIVE  
**Pure substance/mixture** Mixture

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

**Recommended use** Biocidal Products (e.g. disinfectants, pest control)  
**Uses advised against** Consumer use

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

#### Company Name

Bostik Limited  
Common Rd  
ST16 3EH  
Stafford UK  
Tel: +44 (1785) 27 26 25  
Fax: +44 (1785) 25 72 36

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**United Kingdom** Bostik: +44 (1785) 272650

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|  |                       |
|--|-----------------------|
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 2 - (H330)   |
| Serious eye damage/eye irritation                  | Category 1 - (H318)   |
| Skin sensitisation                                 | Category 1A - (H317)  |
| Reproductive toxicity                              | Category 1B - (H360D) |
| Specific target organ toxicity — repeated exposure | Category 1 - (H372)   |
| Acute aquatic toxicity                             | Category 1 - (H400)   |
| Chronic aquatic toxicity                           | Category 1 - (H410)   |

### 2.2. Label elements

Contains Zinc pyrithione, 3-Iodo-2-propynyl butylcarbamate [IPBC], 2-octyl-2H-isothiazol-3-one [OIT]

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**Signal word**  
Danger

## Hazard statements

H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H330 - Fatal if inhaled.  
H360D - May damage the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.

## Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P391 - Collect spillage  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Special provisions concerning the labelling of certain mixtures

Restricted to professional users.

## Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

No information available.

## PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | EC No (EU Index No) | CAS No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | REACH registration number |
|---------------|---------------------|--------|----------|---|------------------------------------|---------------------------|
|               |                     |        |          |   |                                    |                           |

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|   |                             |            |          |   |                                |                       |
|---|-----------------------------|------------|----------|---|--------------------------------|-----------------------|
| Zinc pyrrithione                        | (613-333-00-7)<br>236-671-3 | 13463-41-7 | 20 - 25  | STOT RE 1<br>(H372)<br>Eye Dam. 1<br>(H318)<br>Repr. 1B<br>(H360D)<br>Acute Tox. 2<br>(H330)<br>Acute Tox. 3<br>(H301)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410)                                  | -                              | 01-2119511196-46-XXXX |
| Zinc oxide                              | (030-013-00-7)<br>215-222-5 | 1314-13-2  | 10 - <20 | Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410)  | -                              | 01-2119463881-32-XXXX |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] | (616-212-00-7)<br>259-627-5 | 55406-53-6 | 10 - <20 | STOT RE 1<br>(H372)<br>Eye Dam. 1<br>(H318)<br>Skin Sens. 1<br>(H317)<br>Acute Tox. 4<br>(H302)<br>Acute Tox. 3<br>(H331)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410)                               | -                              | -                     |
| 2-octyl-2H-isothiazol-3-one [OIT]       | (613-112-00-5)<br>247-761-7 | 26530-20-1 | 0.1 - <1 | Acute Tox. 3<br>(H301)<br>Acute Tox. 3<br>(H311)<br>Acute Tox. 2<br>(H330)<br>Skin Corr. 1B<br>(H314)<br>Eye Dam 1<br>(H318)<br>Skin Sens. 1A<br>(H317)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410) | Skin Sens. 1A ::<br>C>=0.0015% | -                     |

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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|   |   |
|---|---|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Get medical attention immediately if symptoms occur.  |
| <b>Eye contact</b>                        | Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.   |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.   |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately.   |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapour or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives. |
|-----------------|--|

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

|                        |  |
|------------------------|--|
| <b>Note to doctors</b> | May cause sensitisation in susceptible persons. Treat symptomatically. |
|------------------------|--|

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

|                                     |   |
|-------------------------------------|---|
| <b>Suitable Extinguishing Media</b> | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---|

|                                       |                           |
|---------------------------------------|---------------------------|
| <b>Unsuitable extinguishing media</b> | No information available. |
|---------------------------------------|---------------------------|

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

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | Product is or contains a sensitiser. May cause sensitisation by skin contact. |
|---|---|

|                                      |   |
|--------------------------------------|---|
| <b>Hazardous combustion products</b> | Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). Zinc oxide. |
|--------------------------------------|---|

### **5.3. Advice for firefighters**

|   |  |
|---|--|
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|---|--|

## **SECTION 6: Accidental release measures**

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

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**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe vapour or mist. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

## 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not breathe vapour or mist. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

**Recommended storage temperature** Keep at temperatures between 5 and 35 °C.

### 7.3. Specific end use(s)

**Specific use(s)**  
Biocidal Products (e.g. disinfectants, pest control).

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

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## 8.1. Control parameters

### Exposure Limits

**Derived No Effect Level (DNEL)** No information available

| Derived No Effect Level (DNEL)                 |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Zinc oxide (1314-13-2)                         |                |                                |               |
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation     | 5 mg/m <sup>3</sup>            |               |
| worker<br>Long term<br>Local health effects    | Inhalation     | 0.5 mg/m <sup>3</sup>          |               |
| worker<br>Long term<br>Systemic health effects | Dermal         | 83 mg/kg bw/d                  |               |

| 3-Iodo-2-propynyl butylcarbamate [IPBC] (55406-53-6) |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects       | Inhalation     | 0.023 mg/m <sup>3</sup>        |               |
| worker<br>Short term<br>Systemic health effects      | Inhalation     | 1.16 mg/m <sup>3</sup>         |               |
| worker<br>Long term<br>Systemic health effects       | Dermal         | 2 mg/kg bw/d                   |               |

| Derived No Effect Level (DNEL)                   |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Zinc oxide (1314-13-2)                           |                |                                |               |
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 2.5 mg/m <sup>3</sup>          |               |
| Consumer<br>Long term<br>Systemic health effects | Dermal         | 83 mg/kg bw/d                  |               |
| Consumer<br>Long term<br>Systemic health effects | Oral           | 0.83 mg/kg bw/d                |               |

### Predicted No Effect Concentration (PNEC)

| Predicted No Effect Concentration (PNEC) |  |
|--|--|
| Zinc oxide (1314-13-2)                   |  |
| Environmental compartment                | Predicted No Effect Concentration (PNEC) |
| Freshwater                               | 0.0206 mg/l                              |
| Marine water                             | 0.0061 mg/l                              |
| Freshwater sediment                      | 235.6 mg/kg dry weight                   |
| Marine sediment                          | 113 mg/kg dry weight                     |

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|------------------------------------|------------------------|
| Soil                               | 106.8 mg/kg dry weight |
| Microorganisms in sewage treatment | 0.1 mg/l               |

| <b>3-Iodo-2-propynyl butylcarbamate [IPBC] (55406-53-6)</b> |  |
|---|--|
| Environmental compartment                                   | Predicted No Effect Concentration (PNEC) |
| Freshwater  | 0.001 mg/l                               |
| Sewage treatment plant                                      | 0.44 mg/l                                |
| Freshwater sediment   | 0.017 mg/kg dry weight                   |
| Marine sediment   | 0.002 mg/kg dry weight                   |
| Soil  | 0.005 mg/kg dry weight                   |

## 8.2. Exposure controls

|  |  |
|--|--|
| <b>Engineering controls</b>            | Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.   |
| <b>Personal protective equipment</b>   |  |
| <b>Eye/face protection</b>             | Wear safety glasses with side shields (or goggles). Avoid contact with eyes. Eye protection must conform to standard EN 166.   |
| <b>Hand protection</b>                 | Wear protective gloves. Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves should be replaced regularly and if there is any sign of damage to the glove material. |
| <b>Skin and body protection</b>        | Wear protective gloves and protective clothing. Avoid contact with skin, eyes or clothing.   |
| <b>Respiratory protection</b>          | During spraying wear suitable respiratory equipment.   |
| <b>Environmental exposure controls</b> | Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.  |

## SECTION 9: Physical and chemical properties

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

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | Paste                    |
| <b>Colour</b>          | Off-white                |
| <b>Odour</b>           | Slight.                  |
| <b>Odour threshold</b> | No information available |

| <b>Property</b>                                | <b>Values</b>              | <b>Remarks • Method</b> |
|--|----------------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available          | None known              |
| <b>Initial boiling point and boiling range</b> | No data available          | None known              |
| <b>Flammability</b>                            | Not applicable for liquids | None known              |
| <b>Flammability Limit in Air</b>               |                            | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available          |                         |
| <b>Lower flammability or explosive limits</b>  | No data available          |                         |
| <b>Flash point</b>                             | > 100 °C                   |                         |
| <b>Autoignition temperature</b>                | No data available          | None known              |
| <b>Decomposition temperature</b>               |                            | None known              |
| <b>pH</b>                                      | 8 - 11                     |                         |
| <b>pH (as aqueous solution)</b>                | No data available          | None known              |
| <b>Kinematic viscosity</b>                     | No data available          | None known              |
| <b>Dynamic viscosity</b>                       | No data available          |                         |
| <b>Water solubility</b>                        | No data available.         | None known              |
| <b>Solubility(ies)</b>                         | No data available          | None known              |
| <b>Partition coefficient</b>                   | No data available          | None known              |
| <b>Vapour pressure</b>                         | No data available          | None known              |
| <b>Relative density</b>                        | 1.25                       |                         |
| <b>Bulk Density</b>                            | No data available          |                         |

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|                            |                          |            |
|----------------------------|--------------------------|------------|
| Liquid Density             | 1.25 g/cm <sup>3</sup>   |            |
| Relative vapour density    | No data available        | None known |
| Particle characteristics   |                          |            |
| Particle Size              | No information available |            |
| Particle Size Distribution | No information available |            |

## 9.2. Other information

|                   |                          |                   |
|-------------------|--------------------------|-------------------|
| Solid content (%) | No information available |                   |
| Softening Point   | Not relevant             |                   |
| VOC content       |                          | No data available |

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

### Explosion data

|                                  |       |
|----------------------------------|-------|
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge  | None. |

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Excessive heat.

### 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

#### Product Information

|            |  |
|------------|--|
| Inhalation | Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). |
|------------|--|



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|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.   |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. May cause irritation. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  |

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness. Itching. Rashes. Hives.

## Acute toxicity

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document  
ATEmix (dermal) 62,200.00 mg/kg

### Component Information

| Chemical name                           | Oral LD50                               | Dermal LD50   | Inhalation LC50             |
|---|---|---|-----------------------------|
| Zinc pyrithione                         | =177 mg/kg (Rattus)                     | >2000 mg/kg (Oryctolagus cuniculus)<br>(EPA OPP 81-2) | 4h = 1.03 mg/L (Rattus) 4 h |
| Zinc oxide                              | >5000 mg/kg (Rattus)                    | LD50 >2000 mg/Kg (Rattus)<br>(OECD 402)               | LC50 (4h) >5.7 mg/l         |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] | LD50 =1056 mg/Kg (Rattus)<br>(OECD 401) | LD50 >2000 mg/Kg (Rattus)                             | =0.67 mg/L (Rattus) 4 h     |
| 2-octyl-2H-isothiazol-3-one [OIT]       | =125 mg/kg (Rattus)                     | = 690 mg/kg (Oryctolagus cuniculus)                   | -                           |

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

**Skin corrosion/irritation** May cause skin irritation.

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

| Method   | Species | Exposure route | Effective dose | Exposure time | Results   |
|--|---------|----------------|----------------|---------------|-----------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit  | Dermal         |                |               | Corrosive |

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitisation** May cause sensitisation by skin contact.

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

| Method  | Species | Exposure route | Results     |
|---|---------|----------------|-------------|
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse   |                | sensitising |

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**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name   | European Union |
|-----------------|----------------|
| Zinc pyrithione | Repr. 1B       |

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

H372 - Causes damage to the following organs through prolonged or repeated exposure: larynx.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Chemical name   | Algae/aquatic plants   | Fish  | Toxicity to microorganisms | Crustacea  | M-Factor | M-Factor (long-term) |
|---|--|---|----------------------------|--|----------|----------------------|
| Zinc pyrithione<br>13463-41-7                         | EC50 (72hr)<br>0.0013 mg/l<br>(Skeletonema costatum) (ISO 10253)<br>0.051 mg/l<br>(Pseudokirchneriella subcapitata) (OECD 201) | EC50(96hr)<br>0.0104 mg/l<br>(Brachydanio rerio) (OECD 203) | -                          | EC50 (48h)<br>=0.038 mg/L<br>Crustaceans<br>(Ilyocypris dentifera) | 1000     | 10                   |
| Zinc oxide<br>1314-13-2                               | LC 50 (72Hr)<br>0.136 mg/L   | LC50 (96h) =0.7<br>mg/L (Danio rerio)                       | -                          | LC 50 (48Hr)<br>=0.5 mg/l<br>(Ceriodaphnia dubia)                  | 1        | 1                    |
| 3-Iodo-2-propynyl butylcarbamate [IPBC]<br>55406-53-6 | EC50 (72 hrs)<br>0.022 mg/l<br>Scenedesmus subspicatus   | LC50 96 h<br>0.049 - 0.079<br>mg/L<br>(Oncorhynchus mykiss) | -                          | EC50 (48hrs)<br>0.16 mg/l -<br>Daphnia magna                       | 10       | 1                    |

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|---|--|--|---|--|-----|-----|
|   |  | flow-through)  |   |  |     |     |
| 2-octyl-2H-isothiazol-3-one [OIT]<br>26530-20-1 | EC50(72h) =<br>0.084 mg/L<br>(Scenedesmus subspicatus)<br>(OECD 201) | LC50 (96h) =<br>0.036 mg/L<br>(Oncorhynchus mykiss) (OECD 203) | - | EC50 (48h)<br>=0.42 mg/L<br>(OECD 202) | 100 | 100 |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Zinc pyrithione (13463-41-7)

| Method  | Exposure time | Value                    | Results                        |
|---|---------------|--------------------------|--------------------------------|
| OECD Test No. 309: Aerobic Mineralization in Surface Water - Simulation Biodegradation Test |               | biodegradation Half-life | Readily biodegradable 0.5 days |

Zinc oxide (1314-13-2)

| Method | Exposure time | Value | Results   |
|--------|---------------|-------|---|
|        |               |       | The methods for determining biodegradability are not applicable to inorganic substances |

3-Iodo-2-propynyl butylcarbamate [IPBC] (55406-53-6)

| Method  | Exposure time | Value | Results                   |
|---|---------------|-------|---------------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days       |       | Not readily biodegradable |

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

| Method  | Exposure time | Value               | Results               |
|---|---------------|---------------------|-----------------------|
| OECD Test No. 309: Aerobic Mineralization in Surface Water - Simulation Biodegradation Test |               | Half-life 0.6-1.4 d | Readily biodegradable |

## 12.3. Bioaccumulative potential

**Bioaccumulation**

### Component Information

| Chemical name                           | Partition coefficient |
|---|-----------------------|
| Zinc pyrithione                         | 1.21                  |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] | 2.88                  |
| 2-octyl-2H-isothiazol-3-one [OIT]       | 2.92                  |

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

| Chemical name                           | PBT and vPvB assessment                                       |
|---|---|
| Zinc pyrithione                         | The substance is not PBT / vPvB                               |
| Zinc oxide                              | The substance is not PBT / vPvB PBT assessment does not apply |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] | The substance is not PBT / vPvB PBT assessment does not apply |

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|                                   |                                 |
|-----------------------------------|---------------------------------|
| 2-octyl-2H-isothiazol-3-one [OIT] | The substance is not PBT / vPvB |
|-----------------------------------|---------------------------------|

## 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |   |
|-------------------------------------|---|
| Waste from residues/unused products | Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations. |
| Contaminated packaging              | Do not reuse empty containers.  |
| Other information                   | Waste codes should be assigned by the user based on the application for which the product was used.             |

## SECTION 14: Transport information

**Note:** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

### Land transport (ADR/RID)

|                                 |   |
|---------------------------------|---|
| 14.1 UN number or ID number     | UN3082  |
| 14.2 Proper Shipping Name       | Environmentally hazardous substances, liquid, n.o.s (Zinc pyrithione, 2-octyl-2H-isothiazol-3-one [OIT])                      |
| 14.3 Transport hazard class(es) | 9   |
| Labels                          | 9   |
| 14.4 Packing group              | III   |
| Description                     | UN3082, Environmentally hazardous substances, liquid, n.o.s (Zinc pyrithione, 2-octyl-2H-isothiazol-3-one [OIT]), 9, III, (-) |
| 14.5 Environmental hazards      | Yes   |
| 14.6 Special Provisions         | 274, 335, 601, 375  |
| Classification code             | M6  |
| Tunnel restriction code         | (-)   |
| Limited quantity (LQ)           | 5 L   |
| ADR Hazard Id (Kemmler Number)  | 90  |

### IMDG

|                                 |  |
|---------------------------------|--|
| 14.1 UN number or ID number     | UN3082   |
| 14.2 Proper Shipping Name       | Environmentally hazardous substances, liquid, n.o.s (Zinc pyrithione, 2-octyl-2H-isothiazol-3-one [OIT])                                   |
| 14.3 Transport hazard class(es) | 9  |
| 14.4 Packing group              | III  |
| Description                     | UN3082, Environmentally hazardous substances, liquid, n.o.s (Zinc pyrithione, 2-octyl-2H-isothiazol-3-one [OIT]), 9, III, Marine Pollutant |
| 14.5 Marine pollutant           | P  |
| 14.6 Special Provisions         | 274, 335, 969  |
| Limited Quantity (LQ)           | 5 L  |
| EmS-No                          | F-A, S-F   |
| 14.7 Maritime transport in bulk | Not relevant   |

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## Air transport (ICAO-TI / IATA-DGR)

|                                 |   |
|---------------------------------|---|
| 14.1 UN number or ID number     | UN3082  |
| 14.2 Proper Shipping Name       | Environmentally hazardous substances, liquid, n.o.s (Zinc pyrrithione, 3-Iodo-2-propynyl butylcarbamate [IPBC])                 |
| 14.3 Transport hazard class(es) | 9   |
| 14.4 Packing group              | III   |
| Description                     | UN3082, Environmentally hazardous substances, liquid, n.o.s (Zinc pyrrithione, 3-Iodo-2-propynyl butylcarbamate [IPBC]), 9, III |
| 14.5 Environmental hazards      | Yes   |
| 14.6 Special Provisions         | A97, A158, A197   |
| Limited quantity (LQ)           | 30 kg G   |
| ERG Code                        | 9L  |

## Section 15: REGULATORY INFORMATION

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### **EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical name    | CAS No     | Restricted substance per REACH Annex XVII |
|------------------|------------|---|
| Zinc pyrrithione | 13463-41-7 | 75.<br>30.                                |

##### **Substance subject to authorisation per REACH Annex XIV**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

##### **Dangerous substance category per Seveso Directive (2012/18/EU)**

H2 - ACUTE TOXIC

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

##### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

##### **Persistent Organic Pollutants**

Not applicable

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## National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H330 - Fatal if inhaled  
H331 - Toxic if inhaled  
H360D - May damage the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

#### **Legend**

|         |   |
|---------|---|
| TWA     | TWA (time-weighted average)   |
| STEL    | STEL (Short Term Exposure Limit)  |
| Ceiling | Ceiling Limit Value   |
| *       | Skin designation  |
| SVHC    | Substance(s) of Very High Concern   |
| PBT     | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals                              |
| vPvB    | Very Persistent and very Bioaccumulative (vPvB) Chemicals                           |
| STOT RE | Specific target organ toxicity - Repeated exposure                                  |
| STOT SE | Specific target organ toxicity - Single exposure                                    |
| EWC     | European Waste Catalogue  |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG    | International Maritime Dangerous Goods (IMDG)                                       |
| IATA    | International Air Transport Association (IATA)                                      |
| RID     | Regulations concerning the International Transport of Dangerous Goods by Rail       |

#### **Key literature references and sources for data**

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 05-Jan-2023

#### Indication of changes

**Revision note** Not applicable.

**Training Advice** No information available

**Further information** No information available

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

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## Disclaimer

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**End of Safety Data Sheet**