# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

**SOVEREIGN FUNGI-CHEK PAINT WHITE**
**Supercedes date** 27-Sep-2022

**Revision date** 15-Feb-2024
**Revision Number** 2.02

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

### 1.1. Product identifier

**Product Name** SOVEREIGN FUNGI-CHEK PAINT WHITE

**Pure substance/mixture** Mixture

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

**Recommended use** Fungicide Paints and varnishes

**Uses advised against** None known

### 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 (9am to 5pm Mon-Fri)
NHS: 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*GB CLP (SI 2020/1567 as amended)*

| | |
|---|---|
| **Chronic aquatic toxicity** | Category 2 - (H411) |

### 2.2. Label elements

**Signal word**
None

**Hazard statements**
H411 - Toxic to aquatic life with long lasting effects.

**EU Specific Hazard Statements**
EUH208 - Contains 3-Iodo-2-propynyl butylcarbamate [IPBC] & Propiconazole & 1,2-benzisothiazol-3(2H)-one [BIT] & reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT]. May produce an allergic reaction

**Precautionary Statements - EU (§28, 1272/2008)**
P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P391 - Collect spillage
P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

Toxic to aquatic life.

**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.. | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|---|---|---|---|---|---|---|---|
| Titanium dioxide >25 - <40 % | 236-675-5 (022-006-00-2) | 13463-67-7 | [C] | - | - | - | 01-2119489379-17-XXXX |
| Diethylene glycol monobutyl ether 0.1- <1 % | 203-961-6 (603-096-00-8) | 112-34-5 | Eye Irrit. 2 (H319) | - | - | - | 01-2119475104-44-XXXX |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] 0.1 - <0.5 % | 259-627-5 (616-212-00-7) | 55406-53-6 | Acute Tox. 4 (H302)<br>Acute Tox. 3 (H331)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>STOT RE 1 (H372)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | - | 10 | 1 | - |
| Propiconazole 0.1 - <0.3 % | 262-104-4 (613-205-00-0) | 60207-90-1 | Acute Tox. 4 (H302)<br>Skin Sens. 1 (H317)<br>Repr. 1B (H360D)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | - | 1 | 1 | - |
| Dipropylene glycol monomethyl ether 0.1 - <0.3 % | 252-104-2 | 34590-94-8 | [B] | - | - | - | 01-2119450011-60-XXXX |
| Propylidynetrimethanol 0.1 - <0.3 % | 201-074-9 | 77-99-6 | Repr. 2 (H361fd) | - | - | - | 01-2119486799-10-xxxx |
| 1,2-benzisothiazol-3(2H)-one [BIT] 0.01 < 0.036 % | 220-120-9 (613-088-00-6) | 2634-33-5 | Acute Tox. 4 (H302)<br>Acute Tox. 2 (H330)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | Skin Sens. 1A :: C>=0.036% | 1 | 1 | 01-2120761540-60-XXXX |
| reaction mass of 5-chloro-2-methyl-2H-iso | 611-341-5 | 55965-84-9 | Acute Tox. 3 (H301)<br>Acute Tox. 2 (H310) | Eye Dam. 1 :: C>=0.6% | 100 | 100 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| thiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] <0.0015 % | | | Acute Tox. 2 (H330)<br>Skin Corr. 1C (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>(EUH071) | Eye Irrit. 2 :: 0.06%<=C<0.6%<br>Skin Corr. 1C :: C>=0.6%<br>Skin Irrit. 2 :: 0.06%<=C<0.6%<br>Skin Sens. 1A :: C>=0.0015% | | | |

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

*Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes*
*[B] - Substance with a Community workplace exposure limit*
*[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring*

*Acute Toxicity Estimate*
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | EC No (EU Index No) | CAS No. | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|---|---|---|---|---|---|---|
| Titanium dioxide | 236-675-5 (022-006-00-2) | 13463-67-7 | - | - | - | - | - |
| Diethylene glycol monobutyl ether | 203-961-6 (603-096-00-8) | 112-34-5 | - | - | - | - | - |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] | 259-627-5 (616-212-00-7) | 55406-53-6 | 1056 | - | 0.67 | - | - |
| Propiconazole | 262-104-4 (613-205-00-0) | 60207-90-1 | 550 | - | - | - | - |
| Dipropylene glycol monomethyl ether | 252-104-2 | 34590-94-8 | - | - | - | - | - |
| Propylidynetrimethanol | 201-074-9 | 77-99-6 | - | - | - | - | - |
| 1,2-benzisothiazol-3(2H)-one [BIT] | 220-120-9 (613-088-00-6) | 2634-33-5 | 450 | - | =0.21 mg/L (ATE dust/mist) | 0.21 + | 0.21 + |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] | 611-341-5 | 55965-84-9 | 66 | 141 | 0.17 | - | - |

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

**Notes**
See section 16 for more information

| Chemical name | Notes |
|---|---|
| Titanium dioxide - 13463-67-7 | V,W,10 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] - 55965-84-9 | B |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

| | |
|---|---|
| **General advice** | If medical advice is needed, have product container or label at hand. |
| **Inhalation** | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. |
| **Eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. |
| **Skin contact** | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor. |
| **Ingestion** | Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. |

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

| | |
|---|---|
| **Symptoms** | No information available. |
| **Effects of Exposure** | No information available. |

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

| | |
|---|---|
| **Note to doctors** | No information available. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | |
|---|---|
| **Suitable Extinguishing Media** | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| **Unsuitable extinguishing media** | Full water jet. |

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

| | |
|---|---|
| **Specific hazards arising from the chemical** | No information available. |
| **Hazardous combustion products** | Carbon monoxide. Carbon dioxide (CO2). |

### 5.3. Advice for firefighters

| | |
|---|---|
| **Special protective equipment and precautions for fire-fighters** | 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

| | |
|---|---|
| **Personal precautions** | Ensure adequate ventilation. |
| **Other information** | Prevent further leakage or spillage if safe to do so. |
| **For emergency responders** | Use personal protection recommended in Section 8. |

### 6.2. Environmental precautions

| | |
|---|---|
| **Environmental precautions** | See Section 12 for additional Ecological Information. |

### 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** Use personal protective equipment as required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep away from food, drink and animal feedingstuffs. Keep from freezing.

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

### 7.3. Specific end use(s)

**Specific use(s)**
Fungicide. Paints and varnishes.

**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

### 8.1. Control parameters

**Exposure Limits** This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

| Chemical name | European Union | United Kingdom |
|---|---|---|
| Titanium dioxide<br>13463-67-7 | - | TWA: 10 mg/m³<br>TWA: 4 mg/m³<br>STEL: 30 mg/m³<br>STEL: 12 mg/m³ |
| 1,2-Propylene glycol<br>57-55-6 | - | TWA: 150 ppm<br>TWA: 474 mg/m³<br>TWA: 10 mg/m³<br>STEL: 450 ppm<br>STEL: 1422 mg/m³<br>STEL: 30 mg/m³ |
| Diethylene glycol monobutyl ether<br>112-34-5 | TWA: 10 ppm<br>TWA: 67.5 mg/m³ | TWA: 10 ppm<br>TWA: 67.5 mg/m³<br>STEL: 15 ppm<br>STEL: 101.2 mg/m³ |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 50 ppm<br>TWA: 308 mg/m³<br>* | TWA: 50 ppm<br>TWA: 308 mg/m³<br>STEL: 150 ppm<br>STEL: 924 mg/m³<br>Sk* |

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

| **Derived No Effect Level (DNEL)** | | | |
|---|---|---|---|
| **Titanium dioxide (13463-67-7)** | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Local health effects | Inhalation | 10 mg/m³ | |

| **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/m³ | |
| worker<br>Short term<br>Systemic health effects | Inhalation | 1.16 mg/m³ | |
| worker<br>Long term<br>Systemic health effects | Dermal | 2 mg/kg bw/d | |

| **Propylidynetrimethanol (77-99-6)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation | 3.3 mg/m³ | |
| worker<br>Long term<br>Systemic health effects | Dermal | 0.94 mg/kg bw/d | |

| **1,2-benzisothiazol-3(2H)-one [BIT] (2634-33-5)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation | 6.81 mg/m³ | |
| worker<br>Long term<br>Systemic health effects | Dermal | 0.966 mg/kg bw/d | |

| **Derived No Effect Level (DNEL)** | | | |
|---|---|---|---|
| **Titanium dioxide (13463-67-7)** | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Oral | 700 mg/kg bw/d | |

| **Propylidynetrimethanol (77-99-6)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Inhalation | 0.58 mg/m³ | |
| Consumer<br>Long term | Dermal | 0.34 mg/kg bw/d | |

| | | | |
|---|---|---|---|
| Systemic health effects | | | |
| Consumer<br>Long term<br>Systemic health effects | Oral | 0.34 mg/kg bw/d | |

| **1,2-benzisothiazol-3(2H)-one [BIT] (2634-33-5)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Inhalation | 1.2 mg/m³ | |
| Consumer<br>Long term<br>Systemic health effects | Dermal | 0.345 mg/kg bw/d | |

**Predicted No Effect Concentration (PNEC)** No information available.

| **Predicted No Effect Concentration (PNEC)** | |
|---|---|
| **Titanium dioxide (13463-67-7)** | |
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Marine water | 0.0184 mg/l |
| Freshwater sediment | 1000 mg/kg |
| Freshwater | 0.184 mg/l |
| Marine sediment | 100 mg/kg |
| Soil | 100 mg/kg |
| Microorganisms in sewage treatment | 100 mg/l |
| Freshwater - intermittent | 0.193 mg/l |

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

| **1,2-benzisothiazol-3(2H)-one [BIT] (2634-33-5)** | |
|---|---|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 4.03 µg/l |
| Marine water | 0.403 µg/l |
| Sewage treatment plant | 1.03 mg/l |
| Freshwater sediment | 49.9 µg/l |
| Marine sediment | 4.99 µg/l |
| Soil | 3 mg/kg dry weight |

**8.2. Exposure controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

**Hand protection** 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.

**Skin and body protection** Wear protective gloves and protective clothing. Avoid contact with skin, eyes or clothing.

**Respiratory protection** During spraying wear suitable respiratory equipment.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | Viscous |
| **Colour** | White |
| **Odour** | Slight. |

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting point / freezing point** | No data available | None known |
| **Initial boiling point and boiling range** | No data available | None known |
| **Flammability** | No data available | |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Flash point** | approx . | |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | | None known |
| **pH** | 8.0 - 9 | |
| **pH (as aqueous solution)** | 8.0 - 9.0 | |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | > 150 mPa s | |
| **Water solubility** | Soluble in water. | |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient** | No data available | None known |
| **Vapour pressure** | No data available | None known |
| **Relative density** | 1.20 - 1.30 | None known |
| **Bulk density** | No data available | |
| **Density** | No data available | |
| **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 |
| **VOC content** | < 20 g/L |

*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** None.

**impact**
**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** Do not freeze.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Carbon monoxide. Carbon dioxide (CO2). 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** Based on available data, the classification criteria are not met.

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

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

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

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

**Symptoms** No information available.

**Acute toxicity**

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** >5000 mg/kg
**ATEmix (dermal)** >5000 mg/kg
**ATEmix (inhalation-gas)** >20000 ppm
**ATEmix (inhalation-dust/mist)** 225.59 mg/l
**ATEmix (inhalation-vapour)** >20 mg/l

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Titanium dioxide | >10000 mg/kg (Rattus) | LD50 > 5000 mg/Kg | = 5.09 mg/L ( Rattus ) 4 h |
| Diethylene glycol monobutyl ether | LD50: 2410 mg/kg (mouse) OECD 401 | LD50: 2764 mg/kg (Oryctolagus cuniculus) OECD 402 | - |
| 3-Iodo-2-propynyl | LD50 =1056 mg/Kg (Rattus) | LD50 >2000 mg/Kg (Rattus) | =0.67 mg/L (Rattus) 4 h |

| | | | |
|---|---|---|---|
| butylcarbamate [IPBC] | (OECD 401) | | |
| Propiconazole | =550 mg/kg (Rattus) (OECD 425) | > 4 g/kg (Rattus) > 4000 mg/kg (Oryctolagus cuniculus) | =1264 mg/m³ (Rattus) 4 h > 5800 mg/m³ (Rattus) 4 h |
| Dipropylene glycol monomethyl ether | =5.35 g/kg (Rattus) | = 9500 mg/kg (Oryctolagus cuniculus) | - |
| Propylidynetrimethanol | =14700 mg/kg (Rattus) | >10000 mg/Kg (Oryctolagus cuniculus) | >0.29 mg/L (Rattus) 4 h |
| 1,2-benzisothiazol-3(2H)-one [BIT] | =450 mg/kg (ATE) | LD50 > 2000 mg/kg (Rattus) | - |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] | 66 mg/kg ( Rat ) | LD50 = 8141 mg/kg (Rat) OECD 402 | = 0.33 mg/L (Rat) 4h |

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

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

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | Eye | | | Non-irritant |

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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

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

| Chemical name | European Union |
|---|---|
| Titanium dioxide | Carc. 2 |

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

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

| Chemical name | European Union |
|---|---|
| Propiconazole | Repr. 1B |

Propylidynetrimethanol (77-99-6)

| Method | Species | Results |
|---|---|---|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat | NOAEL 800 mg/kg bw/d |

| | | |
|---|---|---|
| OECD Test No. 414: Pre-natal Development Toxicity Study | Rat | LOAEL 100 mg/kg bw/d |

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

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

**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**

**11.2.2. Other information**

**Other adverse effects** No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|
| Titanium dioxide 13463-67-7 | LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203 | - | - | - | | |
| Diethylene glycol monobutyl ether 112-34-5 | EC50: >100mg/L (96h, Desmodesmus subspicatus) | LC50: =1300mg/L (96h, Lepomis macrochirus) | - | EC50: =2850mg/L (24h, Daphnia magna) EC50: >100mg/L (48h, Daphnia magna) | | |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] 55406-53-6 | EC50 (72 hrs) 0.022 mg/l Scenedesmus subspicatus | LC50 96 h 0.049 - 0.079 mg/L (Oncorhynchus mykiss flow-through) | - | EC50 (48hrs) 0.16 mg/l - Daphnia magna | 10 | 1 |
| Propiconazole 60207-90-1 | - | - | - | - | 1 | 1 |
| Dipropylene glycol monomethyl ether 34590-94-8 | - | LC50: >10000mg/L (96h, Pimephales promelas) | - | LC50: =1919mg/L (48h, Daphnia magna) | | |
| Propylidynetrimethanol 77-99-6 | - | LC50: =21700mg/L (48h, Cyprinodon) | - | EC50: 10330 - 16360mg/L (48h, Daphnia magna) EC50: =13000mg/L (48h, Daphnia | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | species) | | |
| 1,2-benzisothiazol-3(2H)-one [BIT] 2634-33-5 | EC50 3Hr 13mg/l (activated sludge) (OECD 209) | LC50 (96hr) 2.15 mg/l Cyprinodon variegatus EPA 540/9-85-006 | - | EC50(48hr) 2.94 mg/l (Daphnia Magna) OECD 202 | 1 | 1 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] 55965-84-9 | EC50 (72h) =0.048 mg/L (Pseudokirchneriella subcapitata) (OECD 201) | EC50 (96h) = 0.22 mg/L (Oncorhynchus mykiss) (OECD 211) | - | EC50 (48h) =0.1 mg/L (Daphnia magna) (OECD 202) | 100 | 100 |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

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 |

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] (55965-84-9)

| Method | Exposure time | Value | Results |
|---|---|---|---|
| OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) | 28 days | biodegradation | Not readily biodegradable |

## 12.3. Bioaccumulative potential

**Bioaccumulation**

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Diethylene glycol monobutyl ether | 1 |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] | 2.88 |
| Dipropylene glycol monomethyl ether | 0.35 |
| Propylidynetrimethanol | -0.47 |
| 1,2-benzisothiazol-3(2H)-one [BIT] | 0.7 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] | 0.7 |

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name | PBT and vPvB assessment |
|---|---|
| Titanium dioxide | The substance is not PBT / vPvB |
| Diethylene glycol monobutyl ether | The substance is not PBT / vPvB |
| 3-Iodo-2-propynyl butylcarbamate [IPBC] | The substance is not PBT / vPvB |
| Propiconazole | The substance is not PBT / vPvB |
| Dipropylene glycol monomethyl ether | The substance is not PBT / vPvB |
| Propylidynetrimethanol | The substance is not PBT / vPvB |
| 1,2-benzisothiazol-3(2H)-one [BIT] | The substance is not PBT / vPvB |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and | The substance is not PBT / vPvB |

| | |
|---|---|
| 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] | |

**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 in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Handle contaminated packages in the same way as the product itself.

**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. Keep from freezing.

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 UN proper shipping name** | Environmentally hazardous substances, liquid, n.o.s. (3-Iodo-2-propynyl butylcarbamate [IPBC], Propiconazole) |
| **14.3 Transport hazard class(es)** | 9 |
| **Labels** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, Environmentally hazardous substances, liquid, n.o.s. (3-Iodo-2-propynyl butylcarbamate [IPBC], Propiconazole), 9, III, (-) |
| **14.5 Environmental hazards** | Yes |
| **14.6 Special precautions for user** | |
| **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 UN proper shipping name** | Environmentally hazardous substances, liquid, n.o.s. (3-Iodo-2-propynyl butylcarbamate [IPBC], Propiconazole) |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, Environmentally hazardous substances, liquid, n.o.s. (3-Iodo-2-propynyl butylcarbamate [IPBC], Propiconazole), 9, III, Marine pollutant |
| **14.5 Marine pollutant** | P |
| **14.6 Special precautions for user** | |
| **Special Provisions** | 274, 335, 969 |

**Limited Quantity (LQ)** 5 L
**EmS-No.** F-A, S-F

**14.7 Maritime transport in bulk according to IMO instruments**

**Transport in bulk according to Annex II of MARPOL and the IBC Code** Not applicable

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

**14.1 UN number or ID number** UN3082
**14.2 UN proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (3-Iodo-2-propynyl butylcarbamate [IPBC], Propiconazole)
**14.3 Transport hazard class(es)** 9
**14.4 Packing group** III
**Description** UN3082, Environmentally hazardous substances, liquid, n.o.s. (3-Iodo-2-propynyl butylcarbamate [IPBC], Propiconazole), 9, III
**14.5 Environmental hazards** Yes
**14.6 Special precautions for user**
**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, Authorisation, 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 >=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 |
|---|---|---|
| Diethylene glycol monobutyl ether | 112-34-5 | Use restricted. See entry 55.<br>Use restricted. See entry 75. |
| Propiconazole | 60207-90-1 | Use restricted. See entry 30.<br>Use restricted. See entry 75. |

**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)

**Biocidal Products Regulation (EU) No 528/2012 (BPR)**
Contains a biocide : Contains C(M)IT/MIT (3:1). May produce an allergic reaction

**Export Notification requirements**
This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation

under Regulation (EC) No 1272/2008.
**Therefore this product is subject to prior informed consent notification** .

| Chemical name | European Export/Import Restrictions per (EC) 649/2012 - Annex Number |
|---|---|
| Propiconazole - 60207-90-1 | I.1 |

**Dangerous substance category per Seveso Directive (2012/18/EU)**
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**
Not applicable

**Persistent Organic Pollutants**
Not applicable

**REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors**
Not applicable

**National regulations**

**15.2. Chemical safety assessment**

Exposure scenario

## 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
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
H331 - Toxic if inhaled
H360D - May damage the unborn child
H361fd - Suspected of damaging fertility. Suspected of damaging 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
H411 - Toxic to aquatic life with long lasting effects

**Notes relating to the identification, classification and labelling of substances**
**Note B:** Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.
In Part 3 entries with Note B have a general designation of the following type: ‘nitric acid … %’.
In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis
**Note V:** If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied
**Note W:** It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung

**Notes relating to the classification and labelling of mixtures**

**Note 10:** The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm

**Legend**

| | |
|---|---|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Ceiling Limit Value |
| Sk* | 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** | 15-Feb-2024 |

**Indication of changes**

| | |
|---|---|
| **Revision note** | SDS sections updated, 14. |
| **Training Advice** | No information available |
| **Further information** | No information available |

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**

**Disclaimer**

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.

**End of Safety Data Sheet**