

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

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

#### 1.1 Product identifier

Product code : 40065404  
Trade name : BORI AQUA IMPREGNATION WITH BIOCIDES

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

Use of the Sub-  
stance/Mixture : SU21 Consumer uses, Widespread use by professional work-  
ers  
PROC10 Roller application or brushing, Dipping  
8 Wood preservatives, Biocidal product

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

Company : Helios TBLUS d.o.o.  
Količevo 65  
1230 Domžale  
Slovenia  
Telephone Company : 00386 1 722 4383  
Telefax Company : 1 722 4310  
Responsible/issuing person : 00386 1 722 4383  
productsafety@helios.si

#### 1.4 Emergency telephone number

Call 999 for emergency medical attention  
professionals only: National Poison Information Service (NPIS) 24h national number 0844 892  
0111  
consumer: National Health Service (NHS) 24h national number, England & Scotland 111

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|  |   |
|--|---|
| Short-term (acute) aquatic hazard, Category 1  | H400: Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic hazard, Category 1 | H410: Very toxic to aquatic life with long lasting effects. |

# SAFETY DATA SHEET

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---

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

#### Prevention:

P273 Avoid release to the environment.

#### Response:

P391 Collect spillage.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 3-iodo-2-propynyl butylcarbamate, permethrin (ISO). May produce an allergic reaction.

### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Low-risk biocidal product

#### Components

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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| Chemical name                             | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|---|---|---|--------------------------|
| 3-iodo-2-propynyl butylcarbamate          | 55406-53-6<br>259-627-5<br>616-212-00-7               | 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>(larynx)<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 1<br><br>Acute toxicity esti-<br>mate<br><br>Acute oral toxicity:<br>500 mg/kg | >= 0,25 - < 1            |
| tebuconazole (ISO)                        | 107534-96-3<br>403-640-2<br>603-197-00-7              | Acute Tox. 4; H302<br>Repr. 2; H361d<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 1<br>M-Factor (Chronic<br>aquatic toxicity): 10   | >= 0,1 - < 0,25          |
| Fatty alcohol polyglycol ether 6-15<br>EO | 106232-83-1<br>500-294-5                              | Acute Tox. 4; H332<br>Acute Tox. 4; H332<br>Eye Dam. 1; H318<br>Eye Dam. 1; H318<br>Aquatic Acute 1;<br>H400<br>Aquatic Acute 1;<br>H400  | >= 0,1 - < 0,25          |
| 2-ethylhexanoic acid, zirconium<br>salt   | 22464-99-9<br>245-018-1<br>01-2119979088-21           | Repr. 2; H361d  | >= 0,1 - < 1             |
| permethrin (ISO)                          | 52645-53-1<br>258-067-9<br>613-058-00-2               | Acute Tox. 4; H302<br>Acute Tox. 3; H331<br>Skin Sens. 1; H317<br>Aquatic Acute 1;  | >= 0,1 - < 0,25          |

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according to Regulation (EC) No. 1907/2006



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|  |  |   |                        |
|--|--|---|------------------------|
|  |  | H400<br>Aquatic Chronic 1;<br>H410<br><hr/> M-Factor (Acute<br>aquatic toxicity):<br>1.000<br>M-Factor (Chronic<br>aquatic toxicity):<br>1.000<br><hr/> Acute toxicity esti-<br>mate<br><br>Acute oral toxicity:<br>500 mg/kg |                        |
| 1,2-benzisothiazol-3(2H)-one                 | 2634-33-5<br>220-120-9<br>613-088-00-6<br>01-2120761540-60 | Acute Tox. 4; H302<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<br><hr/> specific concentration<br>limit<br>Skin Sens. 1; H317<br>>= 0,05 %     | >= 0,0025 - <<br>0,025 |
| Substances with a workplace exposure limit : |  |   |                        |
| (2-Methoxymethylethoxy)propanol              | 34590-94-8<br>252-104-2<br>01-2119450011-60                |   | >= 1 - < 10            |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.
- In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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If swallowed : 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

None known.

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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

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

Further information : The product itself does not burn.  
Standard procedure for chemical fires.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Avoid contact with skin and eyes.  
Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version 1.1      Revision Date: 22.03.2021      SDS Number: MAT000400654 GB / EN      Date of last issue: 19.03.2021      Date of first issue: 19.03.2021

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : No special technical protective measures required. For personal protection see section 8.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat, drink or smoke. Wash thoroughly after handling.

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

- Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Perishable if frozen. To maintain product quality, do not store in heat or direct sunlight.
- Advice on common storage : No materials to be especially mentioned.
- Further information on storage stability : Protect from frost.

### 7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                           | CAS-No.  | Value type (Form of exposure) | Control parameters                 | Basis      |
|--------------------------------------|--|-------------------------------|------------------------------------|------------|
| (2-Methoxymethylethoxy)propanol      | 34590-94-8   | TWA                           | 50 ppm<br>308 mg/m <sup>3</sup>    | 2000/39/EC |
|                                      | Further information: Identifies the possibility of significant uptake through the skin, Indicative   |                               |                                    |            |
|                                      |  | TWA                           | 50 ppm<br>308 mg/m <sup>3</sup>    | GB EH40    |
|                                      | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                    |            |
| 2-ethylhexanoic acid, zirconium salt | 22464-99-9   | TWA                           | 5 mg/m <sup>3</sup><br>(Zirconium) | GB EH40    |

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according to Regulation (EC) No. 1907/2006



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Version  
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|  |  |      |                                     |         |
|--|--|------|-------------------------------------|---------|
|  |  | STEL | 10 mg/m <sup>3</sup><br>(Zirconium) | GB EH40 |
|--|--|------|-------------------------------------|---------|

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

| Substance name                       | End Use   | Exposure routes | Potential health effects   | Value                  |
|--------------------------------------|-----------|-----------------|----------------------------|------------------------|
| (2-Methoxymethylethoxy)propanol      | Workers   | Inhalation      | Long-term systemic effects | 308 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Long-term systemic effects | 37,2 mg/m <sup>3</sup> |
|                                      | Workers   | Dermal          | Long-term systemic effects | 283 mg/kg bw/day       |
|                                      | Consumers | Dermal          | Long-term systemic effects | 121 mg/kg bw/day       |
|                                      | Consumers | Oral            | Long-term systemic effects | 36 mg/kg bw/day        |
| 2-ethylhexanoic acid, zirconium salt | Workers   | Inhalation      | Long-term systemic effects | 32 mg/m <sup>3</sup>   |
|                                      | Consumers | Inhalation      | Long-term systemic effects | 8 mg/m <sup>3</sup>    |
|                                      | Consumers | Oral            | Long-term systemic effects | 2,5 mg/kg bw/day       |
|                                      | Workers   | Dermal          | Long-term systemic effects | 6,49 mg/kg bw/day      |
|                                      | Consumers | Dermal          | Long-term systemic effects | 3,25 mg/kg bw/day      |
| 1,2-benzisothiazol-3(2H)-one         | Workers   | Inhalation      | Long-term systemic effects | 6,81 mg/m <sup>3</sup> |
|                                      | Workers   | Dermal          | Long-term systemic effects | 0,966 mg/kg bw/day     |
|                                      | Consumers | Inhalation      | Long-term systemic effects | 1,2 mg/m <sup>3</sup>  |
|                                      | Consumers | Dermal          | Long-term systemic effects | 0,345 mg/kg bw/day     |

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

| Substance name                       | Environmental Compartment | Value                        |
|--------------------------------------|---------------------------|------------------------------|
| (2-Methoxymethylethoxy)propanol      | Soil                      | 2,74 mg/kg dry weight (d.w.) |
|                                      | Marine water              | 1,9 mg/l                     |
|                                      | Fresh water               | 19 mg/l                      |
|                                      | Marine sediment           | 7,02 mg/kg dry weight (d.w.) |
|                                      | Fresh water sediment      | 70,2 mg/kg dry weight (d.w.) |
|                                      | Sewage treatment plant    | 4168 mg/l                    |
|                                      | Intermittent use/release  | 190 mg/l                     |
| 2-ethylhexanoic acid, zirconium salt | Soil                      | 1,06 mg/kg dry weight (d.w.) |
|                                      | Marine water              | 0,036 mg/l                   |
|                                      | Fresh water               | 0,36 mg/l                    |

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according to Regulation (EC) No. 1907/2006



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Version 1.1      Revision Date: 22.03.2021      SDS Number: MAT000400654 GB / EN      Date of last issue: 19.03.2021      Date of first issue: 19.03.2021

|                              |                          |                                 |
|------------------------------|--------------------------|---------------------------------|
|                              | Marine sediment          | 0,637 mg/kg dry weight (d.w.)   |
|                              | Fresh water sediment     | 6,37 mg/kg dry weight (d.w.)    |
|                              | Sewage treatment plant   | 71,7 mg/l                       |
|                              | Intermittent use/release | 0,493 mg/l                      |
| 1,2-benzisothiazol-3(2H)-one | Fresh water              | 0,00403 mg/l                    |
|                              | Intermittent use/release | 0,0011 mg/l                     |
|                              | Marine water             | 0,000403 mg/l                   |
|                              | Sewage treatment plant   | 1,03 mg/l                       |
|                              | Fresh water sediment     | 0,0499 mg/kg dry weight (d.w.)  |
|                              | Marine sediment          | 0,00499 mg/kg dry weight (d.w.) |
|                              | Soil                     | 3 mg/kg dry weight (d.w.)       |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Goggles

#### Hand protection

Material : Nitrile rubber  
Glove thickness : 0,2 mm  
Protective index : Class 3

Remarks : Wear suitable gloves.

Skin and body protection : Long sleeved clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : milky

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point : 0,0 °C  
(calculation method (principal components, lowest value))

Boiling point/boiling range : 100 °C (calculation method (principal components, lowest



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according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

---

|  |  |
|--|--|
|  | value))  |
| Flammability                           | : Not applicable   |
| Flash point                            | : Not applicable   |
| pH                                     | : 7,5 - 8,5  |
| Viscosity                              |  |
| Viscosity, dynamic                     | : similar to water   |
| Viscosity, kinematic                   | : < 21 mm <sup>2</sup> /s (40 °C)  |
| Solubility(ies)                        |  |
| Water solubility                       | : soluble  |
| Solubility in other solvents           | : No data available  |
| Partition coefficient: n-octanol/water | : No data available  |
| Vapour pressure                        | : 23 hPa (calculation method (principal components, highest value))<br>(20 °C) |
| Relative density                       | : 1,00 (calculation method (principal components, highest value))              |
| Density                                | : 1,00 - 1,02 g/cm <sup>3</sup>  |

### 9.2 Other information

|                      |                                    |
|----------------------|------------------------------------|
| VOC                  | : (Directive 2004/42/EC)<br>50 g/l |
| Total Water Quantity | : 93,06 %                          |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

|                     |                     |
|---------------------|---------------------|
| Hazardous reactions | : No data available |
|---------------------|---------------------|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

---

### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.  
Incompatible with strong acids and bases.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

##### **3-iodo-2-propynyl butylcarbamate:**

Acute oral toxicity : LD50 Oral (Rat): >= > 300 - 500 mg/kg  
Method: OECD Test Guideline 423  
  
Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

Acute inhalation toxicity : LC50 (Rat, male and female): 0,67 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

##### **tebuconazole (ISO):**

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

##### **Alcohols, C12-15, branched and linear, ethoxylated:**

Acute inhalation toxicity : Test atmosphere: vapour  
Assessment: The component/mixture is moderately toxic after short term inhalation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
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---

### **permethrin (ISO):**

Acute oral toxicity : LD50 Oral (Rat): 1.479 mg/kg  
Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

Acute inhalation toxicity : LC50 (Rat): > 0,599 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

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

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

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

#### **3-iodo-2-propynyl butylcarbamate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **permethrin (ISO):**

Species : Rabbit  
Result : No skin irritation

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

Result : irritating

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

Not classified based on available information.

### **Components:**

#### **3-iodo-2-propynyl butylcarbamate:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.

### **Alcohols, C12-15, branched and linear, ethoxylated:**

Result : Corrosive

### **permethrin (ISO):**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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---

Species : Rabbit  
Result : No eye irritation

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

Result : Corrosive

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **3-iodo-2-propynyl butylcarbamate:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.

#### **permethrin (ISO):**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.

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

Result : Probability or evidence of skin sensitisation in humans

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **3-iodo-2-propynyl butylcarbamate:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative  
  
Method: OECD Test Guideline 476  
Result: negative  
  
Method: OECD Test Guideline 473  
Result: negative

#### **permethrin (ISO):**

Genotoxicity in vitro : Result: negative

# SAFETY DATA SHEET

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---

### **Carcinogenicity**

Not classified based on available information.

#### **Components:**

##### **permethrin (ISO):**

Remarks : No significant adverse effects were reported

### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

##### **tebuconazole (ISO):**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

##### **2-ethylhexanoic acid, zirconium salt:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

##### **permethrin (ISO):**

Effects on fertility : No significant adverse effects were reported

Effects on foetal development : No significant adverse effects were reported

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

#### **Components:**

##### **3-iodo-2-propynyl butylcarbamate:**

Target Organs : larynx  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

##### **permethrin (ISO):**

Remarks : No significant adverse effects were reported

### **Repeated dose toxicity**

#### **Components:**

##### **3-iodo-2-propynyl butylcarbamate:**

Species : Rat

# SAFETY DATA SHEET

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---

NOAEL : 1,16 mg/m<sup>3</sup>  
Application Route : Inhalation  
Test atmosphere : dust/mist  
Exposure time : 13 w  
Number of exposures : 7 d/w  
Method : OECD Test Guideline 413  
GLP : yes  
Remarks : Subchronic toxicity

Species : Rat  
NOAEL : 20 mg/kg  
Application Route : Oral  
Exposure time : 2 yr  
Number of exposures : 7 d/w

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **3-iodo-2-propynyl butylcarbamate:**

Toxicity to fish : LC<sub>50</sub> (Oncorhynchus mykiss (rainbow trout)): 0,067 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC<sub>50</sub> (Daphnia (water flea)): >= 0,16 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC<sub>50</sub> (Desmodesmus subspicatus (green algae)): >= 0,022 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0,0046 mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

---

Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (Bacteria): 44 mg/l  
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,0084 mg/l  
Exposure time: 35 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,05 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)

M-Factor (Chronic aquatic toxicity) : 1

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### tebuconazole (ISO):

Toxicity to fish : LC50 (Fish): 4,4 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : IC50 (algae): 3,8 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Bacteria): 44 mg/l

M-Factor (Chronic aquatic toxicity) : 10

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### Alcohols, C12-15, branched and linear, ethoxylated:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

---

### **permethrin (ISO):**

Toxicity to fish : LC50 (Fish): 0,0076 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,00017 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 0,5 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1.000

M-Factor (Chronic aquatic toxicity) : 1.000

### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## **12.2 Persistence and degradability**

### **Components:**

#### **3-iodo-2-propynyl butylcarbamate:**

Biodegradability : Concentration: 0,02 mg/l  
Result: Biodegradable  
Biodegradation: > 80 %  
Exposure time: 1 d  
Method: OECD Test Guideline 302B

#### **permethrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

## **12.3 Bioaccumulative potential**

### **Components:**

#### **3-iodo-2-propynyl butylcarbamate:**

Partition coefficient: n-octanol/water : log Pow: 2,8



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

---

### **permethrin (ISO):**

Partition coefficient: n-octanol/water : log Pow: 5,95

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

Partition coefficient: n-octanol/water : log Pow: 1,3

### **(2-Methoxymethylethoxy)propanol:**

Partition coefficient: n-octanol/water : log Pow: -0,064

### **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 Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **12.7 Other adverse effects**

No data available

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Do not release the product to the aquatic environment

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Code : 08 01 20, aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |   |         |
|------|---|---------|
| ADN  | : | UN 3082 |
| ADR  | : | UN 3082 |
| RID  | : | UN 3082 |
| IMDG | : | UN 3082 |
| IATA | : | UN 3082 |

#### 14.2 UN proper shipping name

|      |   |  |
|------|---|--|
| ADN  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(permethrin, 3-iodo-2-propynyl butylcarbamate) |
| ADR  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(permethrin, 3-iodo-2-propynyl butylcarbamate) |
| RID  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(permethrin, 3-iodo-2-propynyl butylcarbamate) |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(permethrin, 3-iodo-2-propynyl butylcarbamate) |
| IATA | : | Environmentally hazardous substance, liquid, n.o.s.<br>(permethrin, 3-iodo-2-propynyl butylcarbamate)    |

#### 14.3 Transport hazard class(es)

|      |   |   |
|------|---|---|
| ADN  | : | 9 |
| ADR  | : | 9 |
| RID  | : | 9 |
| IMDG | : | 9 |
| IATA | : | 9 |

#### 14.4 Packing group

|                              |   |     |
|------------------------------|---|-----|
| ADN                          | : |     |
| Packing group                | : | III |
| Classification Code          | : | M6  |
| Hazard Identification Number | : | 90  |
| Labels                       | : | 9   |
| ADR                          | : |     |
| Packing group                | : | III |
| Classification Code          | : | M6  |
| Hazard Identification Number | : | 90  |
| Labels                       | : | 9   |
| Tunnel restriction code      | : | (-) |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

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### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

### SECTION 15: Regulatory information

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

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : permethrin (ISO)
- 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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: 50 g/l

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

### SECTION 16: Other information

#### Full text of H-Statements

- H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H331 : Toxic if inhaled.  
H332 : Harmful if inhaled.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

H361d : 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.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Repr. : Reproductive toxicity  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2000/39/EC / TWA : Limit Value - eight hours  
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 - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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 - 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; TRGS -

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BORI AQUA IMPREGNATION WITH BIOCIDES

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: 19.03.2021  |
| 1.1     | 22.03.2021     | MAT000400654<br>GB / EN | Date of first issue: 19.03.2021 |

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Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |

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.