

**BORI IMPREGNATION WITH BIOCID W**

|         |                |                       |                                 |
|---------|----------------|-----------------------|---------------------------------|
| Version | Revision Date: | SDS Number:           | Date of last issue: -           |
| 1.0     | 17.05.2024     | MAT000480107<br>LB/EN | Date of first issue: 17.05.2024 |

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : BORI IMPREGNATION WITH BIOCID W

Product code : 48010702

**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : Consumer uses, Widespread use by professional workers  
Roller application or brushing, Dipping  
Wood preservatives, Biocidal product**1.3 Details of the supplier of the safety data sheet**Company : KANSAI HELIOS Slovenija d.o.o.  
Količevo 65  
1230 Domžale  
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383  
productsafety@kansai-helios.si**1.4 Emergency telephone number**

Ambulance &amp; Emergency Emergency telephone number: 140

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-ways.


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.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

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- Hazard pictograms : 
- Signal word : Danger
- Hazard statements : H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.
- Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.
- Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P260 Do not breathe vapours.  
P262 Do not get in eyes, on skin, or on clothing.  
P273 Avoid release to the environment.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P391 Collect spillage.  
P405 Store locked up.
- Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics

**Additional Labelling**

EUH208 Contains 3-iodo-2-propynyl butylcarbamate. 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.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Chemical nature : Solvent-borne coatings

**Components**

| Chemical name | CAS-No. | Classification | Concentration |
|---------------|---------|----------------|---------------|
|---------------|---------|----------------|---------------|

# SAFETY DATA SHEET



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|  | EC-No.<br>Index-No.<br>Registration number                   |  | (% w/w)             |
|--|--|--|---------------------|
| hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics | Not Assigned<br>918-481-9<br>01-2119457273-39                | Asp. Tox. 1; H304  | >= 70 - < 90        |
| 3-iodo-2-propynyl butylcarbamate                                   | 55406-53-6<br>259-627-5<br>616-212-00-7<br>01-2120762115-60  | 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 | >= 0.25 - < 1       |
| tebuconazole   | 107534-96-3<br>403-640-2<br>603-197-00-7<br>01-0000015329-67 | 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     |
| 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;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity):<br>1,000<br>M-Factor (Chronic<br>aquatic toxicity):<br>1,000                                       | >= 0.025 - <<br>0.1 |
| Substances with a workplace exposure limit :                       |  |  |                     |
| (2-methoxymethylethoxy)propanol                                    | 34590-94-8<br>252-104-2<br>01-2119450011-60                  |  | >= 1 - < 10         |

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For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                         |   |  |
|-------------------------|---|--|
| General advice          | : | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Symptoms of poisoning may appear several hours later.<br>Do not leave the victim unattended.  |
| If inhaled              | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact | : | If on skin, rinse well with water.<br>If on clothes, remove clothes.   |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| If swallowed            | : | Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

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

- |       |   |   |
|-------|---|---|
| Risks | : | May be fatal if swallowed and enters airways.<br><br>May be fatal if swallowed and enters airways.<br>Repeated exposure may cause skin dryness or cracking. |
|-------|---|---|

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

- |           |   |                        |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|
- 

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- |                                |   |                                   |
|--------------------------------|---|-----------------------------------|
| Suitable extinguishing media   | : | Carbon dioxide (CO <sub>2</sub> ) |
| Unsuitable extinguishing media | : | High volume water jet             |

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

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

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
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 : Use personal protective equipment.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

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Do not breathe vapours/dust.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Dispose of rinse water in accordance with local and national regulations.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

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

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

Requirements for storage areas and containers : No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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

**7.3 Specific end use(s)**

Specific use(s) : For further information, refer to the product technical data sheet.

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 |

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

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

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|                                 |           |            |                            |                        |
|---------------------------------|-----------|------------|----------------------------|------------------------|
| (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        |

**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                     |

**8.2 Exposure controls****Personal protective equipment**

Eye/face protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Gloves : | Nitrile rubber (> 0,1 mm; < 60 min); ISO EN374 |  
| Viton® (> 0,6 mm; < 240 min); ISO EN374 |  
| PE laminate (> 0,1 mm; < 240 min); ISO EN374 |

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Impervious 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.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|  |   |   |
|--|---|---|
| Appearance                                       | : | liquid  |
| Colour   | : | brown   |
| Odour  | : | solvent-like  |
| Odour Threshold                                  | : | No data available   |
| pH   | : | No data available   |
| Boiling point/boiling range                      | : | 180 - 220 °C (calculation method (principal components, lowest value))  |
| Flash point                                      | : | 65 °C   |
| Upper explosion limit / Upper flammability limit | : | 6.1 %(V)<br>(calculation method (principal components, highest value))  |
| Lower explosion limit / Lower flammability limit | : | 0.6 %(V)<br>(calculation method (principal components, highest value))  |
| Density  | : | 0.79 - 0.83 g/cm <sup>3</sup>   |
| Solubility(ies)                                  | : |   |
| Water solubility                                 | : | immiscible, partly soluble  |
| Solubility in other solvents                     | : | Description: miscible with most organic solvents  |
| Partition coefficient: n-octanol/water           | : | No data available   |
| Decomposition temperature                        | : | No decomposition if stored and applied as directed.<br>Hazardous decomposition products formed under fire conditions. |
| Viscosity  | : |   |
| Viscosity, kinematic                             | : | < 21 mm <sup>2</sup> /s (40 °C)   |

**9.2 Other information**

|                   |   |                                   |
|-------------------|---|-----------------------------------|
| No data available | : |                                   |
| VOC               | : | (Directive 2004/42/EC)<br>748 g/l |

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

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**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : Incompatible with strong acids and bases.

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Not classified based on available information.

Not classified due to lack of data.

**Product:**

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

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,000 mg/l  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

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

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

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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

**tebuconazole (ISO):**

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

**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

**(2-Methoxymethylethoxy)propanol:**

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

Not classified based on available information.  
Repeated exposure may cause skin dryness or cracking.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

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

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Result : Repeated exposure may cause skin dryness or cracking.

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

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

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

Species : Rabbit  
Result : No skin irritation

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

Not classified based on available information.  
Not classified due to lack of data.

### **Product:**

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

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

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

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

Species : Rabbit  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Skin sensitisation**

Not classified due to lack of data.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified due to lack of data.

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**Product:**

Remarks : Causes sensitisation.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

**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.

**Germ cell mutagenicity**

Not classified based on available information.  
Not classified due to lack of data.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Genotoxicity in vitro : Result: negative  
Genotoxicity in vivo : Result: negative

**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

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Not classified due to lack of data.**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Result : negative

**permethrin (ISO):**

Remarks : No significant adverse effects were reported

**Reproductive toxicity**Not classified based on available information.  
Not classified due to lack of data.**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Effects on foetal development : Fertility and developmental toxicity tests did not reveal any effect on reproduction.

**tebuconazole (ISO):**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility ,and/or 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.  
Not classified due to lack of data.**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Remarks : Based on available data, the classification criteria are not met.

**STOT - repeated exposure**Not classified based on available information.  
Not classified due to lack of data.**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Remarks : Based on available data, the classification criteria are not met.

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**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  
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**

May be fatal if swallowed and enters airways.  
May be fatal if swallowed and enters airways.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

May be fatal if swallowed and enters airways.

**Further information****Product:**

Remarks : Solvents may degrease the skin.

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**SECTION 12: Ecological information****12.1 Toxicity****Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

|   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 : > 1,000 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202  |
| Toxicity to algae/aquatic plants                    | : | NOEC (Pseudokirchneriella subcapitata (microalgae)): 1,000 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |

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

|   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.067 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia (water flea)): >= 0.16 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>GLP: yes  |
| Toxicity to algae/aquatic plants                    | : | EC50 (Desmodesmus subspicatus (green algae)): >= 0.022 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Desmodesmus subspicatus (green algae)): 0.0046 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity)                   | : | 10   |
| Toxicity to microorganisms                          | : | EC50 (Bacteria): 44 mg/l<br>Exposure time: 3 h   |

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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.

**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

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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.

**12.2 Persistence and degradability****Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

**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

**permethrin (ISO):**

Partition coefficient: n-octanol/water : log Pow: 5.95

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**(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.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

**12.6 Other adverse effects****Product:**

Endocrine disrupting potential : 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.

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

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

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

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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**SECTION 14: Transport information****14.1 UN number**

|             |   |         |
|-------------|---|---------|
| <b>ADN</b>  | : | UN 3082 |
| <b>ADR</b>  | : | UN 3082 |
| <b>RID</b>  | : | UN 3082 |
| <b>IMDG</b> | : | UN 3082 |
| <b>IATA</b> | : | UN 3082 |

**14.2 UN proper shipping name**

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

**14.3 Transport hazard class(es)**

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | :     | 9                |
| <b>ADR</b>  | :     | 9                |
| <b>RID</b>  | :     | 9                |
| <b>IMDG</b> | :     | 9                |
| <b>IATA</b> | :     | 9                |

**14.4 Packing group**

|                              |       |
|------------------------------|-------|
| <b>ADN</b>                   |       |
| Packing group                | : III |
| Classification Code          | : M6  |
| Hazard Identification Number | : 90  |
| Labels                       | : 9   |
| <b>ADR</b>                   |       |
| Packing group                | : III |
| Classification Code          | : M6  |

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Hazard Identification Number : 90  
 Labels : 9  
 Tunnel restriction code : (-)

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

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: 748 g/l

**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.  
H304 : May be fatal if swallowed and enters airways.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H331 : Toxic if inhaled.  
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.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Eye Dam. : Serious eye damage  
Repr. : Reproductive toxicity  
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  
2000/39/EC / TWA : Limit Value - eight hours

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

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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; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information****Classification of the mixture:**

|                   |      |
|-------------------|------|
| Asp. Tox. 1       | H304 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

**Classification procedure:**

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