

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ACS LIGNOTEC WOOD PRESERVATIVE & SURFACE BIOCIDE

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

#### 1.1 Product identifier

Trade name : ACS LIGNOTEC BIOCIDE  
Product code : 62242897

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

Use of the Sub-stance/Mixture : Biocidal product, Wood preservatives

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

Supplier : Advanced Chemical Specialties Ltd  
Unit 9, Bofors Park, Artillery Road  
Yeovil, Somerset. BA22 8YH  
Telephone : 01935 414012 (not 24-hours)  
E-mail address of person responsible for the SDS : info@acslimited.co.uk

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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.

#### 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.

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Precautionary statements :

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

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
3-iodo-2-propynyl butylcarbamate	55406-53-6 259-627-5 616-212-00-7	Acute Tox. 4; H302 Acute Tox. 3; H331 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT RE 1; H372; larynx Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Acute: 10 M-Factor Aquatic Chronic: 1  M-Factor Aquatic Acute: 10 M-Factor Aquatic Chronic: 1	>= 0.25 - < 1
2-ethylhexanoic acid, zirconium salt	22464-99-9 245-018-1	Repr. 2; H361d	>= 0.1 - < 1

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tebuconazole (ISO)	107534-96-3 403-640-2 603-197-00-7	Acute Tox. 4; H302 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Acute: 1 M-Factor Aquatic Chronic: 10  M-Factor Aquatic Acute: 1 M-Factor Aquatic Chronic: 10	>= 0.1 - < 0.25
permethrin (ISO)	52645-53-1 258-067-9 613-058-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Acute: 1,000 M-Factor Aquatic Chronic: 1,000  M-Factor Aquatic Acute: 1,000 M-Factor Aquatic Chronic: 1,000	>= 0.025 - < 0.1
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor Aquatic Acute: 1	>= 0.0025 - < 0.025
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1;	< 0.0002

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		H410 M-Factor Aquatic Acute: 100 M-Factor Aquatic Chronic: 100	
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2		>= 1 - < 10

#### Specific Concentration limits (Regulation EC) No 1272/2008)

Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9	Skin Sens.1; H317	>= 0.05 %
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	Skin Corr.1C; H314 Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1A; H317 Eye Dam.1; H318	>= 0.6 % 0.06 - < 0.6 % 0.06 - < 0.6 % >= 0.0015 % >= 0.6 %

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.

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

None known.



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#### 6.4 Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.  
Wash hands before breaks and at the end of workday.

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

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

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage stability : Stable under recommended storage conditions.

#### 7.3 Specific end use(s)

Specific use(s) : No data available

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### 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 308 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm	GB EH40

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			308 mg/m3	
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/m3 (Zirconium)	GB EH40
		STEL	10 mg/m3 (Zirconium)	GB EH40

## 8.2 Exposure controls

### Engineering measures

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protective equipment

- Eye protection : Tightly fitting safety goggles
- Hand protection
- Material : polyvinyl chloride (PVC)
- Wearing time : < 60 min
- Material : Nitrile rubber - NBR
- Wearing time : < 60 min
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
- 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 : In the case of vapour formation use a respirator with an approved filter.
- Filter type : Recommended Filter type:
- Combined inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : Liquid
- Colour : milky white
- Odour : No data available

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Odour Threshold            : No data available

pH                            : No data available

Melting point/freezing point    : No data available

Boiling point/boiling range    : No data available

Flash point                : > 100 °C  
                                  Method: DIN EN ISO 2719/A, closed cup

Evaporation rate            : No data available

Flammability (solid, gas)       : No data available

Upper explosion limit        : No data available

Lower explosion limit        : No data available

Vapour pressure             : No data available

Relative vapour density       : No data available

Relative density             : No data available

Density                     : 1.007 g/cm<sup>3</sup> (20 °C)

Solubility(ies)             : No data available

Miscibility with water        : completely miscible

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

Ignition temperature        : > 600 °C  
                                  Method: Regulation (EC) No. 440/2008, Annex, A.15

Decomposition temperature    : No data available

Viscosity  
  Viscosity, dynamic        : 2 mPa.s (20 °C)  
                                  Method: DIN 53019

Explosive properties        : No data available

Oxidizing properties        : No data available

## 9.2 Other information

No data available



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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No specific data.

### 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.

#### 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 (Rat): > 300 - 500 mg/kg  
Method: OECD Test Guideline 423

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  
Remarks: Extrapolation according to Regulation (EC) No.

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

- Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes
- Acute inhalation toxicity : LC0 (Rat, male and female): > 4.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
GLP: yes  
Remarks: Highest producible concentration.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

**tebuconazole (ISO):**

- Acute oral toxicity : LD50 (Rat, male): 4,000 mg/kg  
LD50 (Rat, female): 1,700 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 5.093 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest producible concentration.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

**permethrin (ISO):**

- Acute oral toxicity : LD50 (Rat): 1,479 mg/kg
- Acute inhalation toxicity : LC0 (Rat): 0.599 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Highest producible concentration.
- Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

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

- Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg  
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

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Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality  
Extrapolation according to Regulation (EC) No. 440/2008

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

Acute inhalation toxicity : LC50 (Rat): 0.31 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**(2-methoxymethylethoxy)propanol:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.667 mg/l  
Exposure time: 7 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: no  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality  
Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit, male): 9,510 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

**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

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

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

**tebuconazole (ISO):**

Assessment: No skin irritation

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**permethrin (ISO):**

Species: Rabbit  
Result: No skin irritation

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

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

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

Assessment: Causes burns.

**(2-methoxymethylethoxy)propanol:**

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

**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.

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

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

**tebuconazole (ISO):**

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

**permethrin (ISO):**

Species: Rabbit  
Result: No eye irritation

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

Species: Rabbit  
Method: EPA OPP 81-4  
Result: Risk of serious damage to eyes.

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

Remarks: Risk of serious damage to eyes.

**(2-methoxymethylethoxy)propanol:**

Species: Rabbit  
Method: Draize Test  
Result: No eye irritation  
GLP: no

**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.

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

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.  
GLP: no

**tebuconazole (ISO):**

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.

**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:**

Exposure routes: Skin contact



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GLP: yes

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Species: Mammalian-Animal  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

**tebuconazole (ISO):**

Genotoxicity in vitro : Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 482  
Result: negative

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 479  
Result: negative

Genotoxicity in vivo : Species: Mammalian-Animal  
Method: OECD Test Guideline 474  
Result: negative

Species: Mammalian-Animal  
Method: OECD Test Guideline 478  
Result: negative

**permethrin (ISO):**

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

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

Genotoxicity in vitro : Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476

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Result: negative

Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo

: Species: Rat (male)  
Application Route: Oral  
Method: OECD Test Guideline 486  
Result: negative

Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

**(2-methoxymethylethoxy)propanol:**

Genotoxicity in vitro

: Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.  
Remarks: Test results on an analogous product

**Carcinogenicity**

Not classified based on available information.



**Components:**

**permethrin (ISO):**

Remarks: No known significant effects or critical hazards.

**Reproductive toxicity**

Not classified based on available information.

**Components:**

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

Effects on fertility : Species: Rat, female  
Application Route: Oral  
Dose: 100 milligram per kilogram  
Duration of Single Treatment: 21 d  
Symptoms: NOAEL : Foetotoxic

Species: Rat, female  
Application Route: Oral  
Dose: 250 milligram per kilogram  
Duration of Single Treatment: 21 d  
Symptoms: NOAEL : Maternal toxicity

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

**permethrin (ISO):**

Effects on fertility : Remarks: No known significant effects or critical hazards.

Effects on foetal development : Remarks: No known significant effects or critical hazards.

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

Effects on fertility : Species: Rat, female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 112 mg/kg body weight  
General Toxicity F1: NOAEL: 56.6 mg/kg body weight  
General Toxicity F2: NOAEL: 56.6 mg/kg body weight  
Method: OPPTS 870.3800  
Result: negative

Effects on foetal development : Species: Rat, female  
Application Route: Oral  
Developmental Toxicity: NOAEL: 112 mg/kg body weight  
Method: OPPTS 870.3800  
Result: negative

**(2-methoxymethylethoxy)propanol:**

Effects on fertility : Species: Rat, male and female  
Application Route: inhalation (vapour)

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General Toxicity - Parent: NOAEC: 300 ppm  
General Toxicity F1: NOAEC: 1,000 ppm  
General Toxicity F2: NOAEC: 1,000 ppm  
Fertility: NOAEC Parent: 1,000 parts per million  
Method: OECD Test Guideline 416  
Result: Animal testing did not show any effects on fertility.  
GLP: yes  
Remarks: Test results on an analogous product

Effects on foetal development

: Test Type: Embryo-foetal development  
Species: Rat, female  
Application Route: inhalation (vapour)  
Dose: 50 - 150 - 300 parts per million  
General Toxicity Maternal: NOAEC: 300 ppm  
Developmental Toxicity: NOAEC: 300 ppm  
Embryo-foetal toxicity: NOAEC: 300 ppm  
Result: No teratogenic effects  
GLP: yes

Test Type: Embryo-foetal development  
Species: Rabbit, female  
Application Route: inhalation (vapour)  
Dose: 50 - 150 - 300 parts per million  
General Toxicity Maternal: NOAEC: 300 ppm  
Developmental Toxicity: NOAEC: 300 ppm  
Embryo-foetal toxicity: NOAEC: 300 ppm  
Result: No teratogenic effects  
GLP: yes

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**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: 91 d  
Number of exposures: 7 days/week  
Method: OECD Test Guideline 413  
GLP: yes  
Remarks: Subchronic toxicity

Species: Rat  
NOAEL: 20 mg/kg  
Application Route: Oral

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Exposure time: 2 yr  
Number of exposures: 7 days/week  
Remarks: Chronic toxicity

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

Species: Rat, male and female  
NOAEL: 3,150 - 7,080 mg/kg  
Application Route: Oral  
Exposure time: 17 Weeks  
Number of exposures: 7 days/week  
Method: OECD Test Guideline 408  
GLP: no  
Remarks: Subchronic toxicity

Species: Rat  
NOAEL: >15,4 mg/m<sup>3</sup>  
Application Route: Inhalation  
Test atmosphere: dust/mist  
Exposure time: 60 d  
Number of exposures: 5 days/week  
Method: OECD Test Guideline 413  
Remarks: Subchronic toxicity

**permethrin (ISO):**

Remarks: No known significant effects or critical hazards.

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

Species: Rat, male and female  
NOAEL: 150 mg/kg  
Application Route: Oral  
Exposure time: 28 d  
Method: OECD Test Guideline 407  
Remarks: Subacute toxicity

Species: Rat, male and female  
NOAEL: 69 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
Method: Regulation (EC) No. 440/2008, Annex, B.26  
Remarks: Subchronic toxicity

**(2-methoxymethylethoxy)propanol:**

Species: Rat, male and female  
NOAEL: 1000 mg/kg  
Application Route: Oral  
Exposure time: 28 d  
Dose: 40 - 200 - 1000 mg/kg bw/d  
GLP: yes  
Remarks: Subacute toxicity

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Species: Rat, male and female  
NOAEL: >= 1212 mg/m<sup>3</sup>  
Application Route: Inhalation  
Test atmosphere: vapour  
Exposure time: 90 d  
Dose: 91 - 303 - 1212 mg/m<sup>3</sup>  
Method: OECD Test Guideline 413  
GLP: yes  
Remarks: Subchronic toxicity

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: No data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.067 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.022 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 0.0046 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water

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

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Toxicity to microorganisms : EC50 (activated sludge): 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  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.05 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Fresh water

M-Factor (Long-term (chronic) aquatic hazard) : 1

1

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: no  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 49.3 mg/l  
Exposure time: 72 h  
Method: DIN 38412  
GLP: no  
Remarks: Fresh water

EC10 (Desmodesmus subspicatus (green algae)): 32 mg/l  
Exposure time: 72 h  
Method: DIN 38412  
GLP: no  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l  
Exposure time: 21 Days  
Species: Daphnia (water flea)  
Method: OECD Test Guideline 211  
GLP: no  
Remarks: Fresh water

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**tebuconazole (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.79 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 3.8 mg/l  
Exposure time: 72 h

M-Factor (Short-term (acute) aquatic hazard) : 1  
: 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.01 mg/l  
Exposure time: 21 Days  
Species: Daphnia magna (Water flea)  
Remarks: Fresh water

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

**permethrin (ISO):**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 0.0076 mg/l  
Exposure time: 96 h  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0.00017 mg/l  
Exposure time: 48 h  
Remarks: Fresh water

Toxicity to algae : EC50 (algae): 0.5 mg/l  
Exposure time: 72 h  
Remarks: Fresh water

M-Factor (Short-term (acute) aquatic hazard) : 1,000  
: 1,000

M-Factor (Long-term (chronic) aquatic hazard) : 1,000  
: 1,000

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.15 mg/l  
Exposure time: 96 h

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Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.11 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.0403 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Short-term (acute) aquatic hazard) : 1

Toxicity to microorganisms : EC50 (adapted and activated sludge micro-organism): 12.8 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.58 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.02 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.379 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.188 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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

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

**(2-methoxymethylethoxy)propanol:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l  
Exposure time: 96 h

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Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,919 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: no  
Remarks: Fresh water

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (algae)): > 969 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (algae)): 969 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Fresh water

Toxicity to microorganisms : EC10 (Pseudomonas putida): 4,168 mg/l  
End point: Growth rate  
Exposure time: 18 h  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:  $\geq$  0.5 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Fresh water

## 12.2 Persistence and degradability

### Components:

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

Biodegradability : Concentration: 0.02 mg/l  
Biodegradation: > 80 %  
Exposure time: 1 d  
Method: OECD Test Guideline 302B  
Remarks: IPBC is rapidly transformed in the environment to PBC

Result: Readily biodegradable.

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



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Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: 73.82 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

**tebuconazole (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 20 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

**permethrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

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

Biodegradability : Result: rapidly biodegradable  
Remarks: Considered rapidly degradable in the environment.

Stability in water : Degradation half life: 2 - 3 Days (12 °C)  
Remarks: Estuary

Degradation half life: 5 - 12 Days (12 °C)  
Remarks: Marine water

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

Biodegradability : Result: Not readily biodegradable.

**(2-methoxymethylethoxy)propanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 75 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

### 12.3 Bioaccumulative potential

**Components:**

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

Partition coefficient: n-octanol/water : log Pow: 2.8  
Method: measured

**tebuconazole (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 78

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Partition coefficient: n-octanol/water : log Pow: 3.7

**permethrin (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 300

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

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

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 6.62  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 0.7 (20 °C)  
Method: Regulation (EC) No. 440/2008, Annex, A.8

**(2-methoxymethylethoxy)propanol:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0.004 (25 °C)  
Method: OECD Test Guideline 107

#### 12.4 Mobility in soil

**Components:**

**tebuconazole (ISO):**

Distribution among environmental compartments : Koc: 769

#### 12.5 Results of PBT and vPvB assessment

**Product:**

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

#### 12.6 Other adverse effects

**Product:**

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

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
- The product should not be allowed to enter drains, water courses or the soil.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN 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, N.O.S.  
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazole)
- ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazole)
- RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazole)
- IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazole)
- IATA : Environmentally hazardous substance, liquid, n.o.s.  
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazole)

### 14.3 Transport hazard class(es)



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Packing group : III  
Labels : 9  
:



**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964: 450.00 L  
Packing group : III  
Labels : 9  
:



#### 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

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**IATA (Cargo)**

Environmentally hazardous : yes



**14.6 Special precautions for user**

Hazard statements : Not dangerous cargo.  
Keep separated from foodstuffs.

**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**

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
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
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	: Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: permethrin (ISO)
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

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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	Quantity 1 100 t	Quantity 2 200 t
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**Other regulations:**

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

**15.2 Chemical safety assessment**

Not applicable

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**SECTION 16: Other information**

**Full text of H-Statements**

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.
H332	: Harmful 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.
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 Corr.	: Skin corrosion
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)

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ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals

#### Further information

##### Classification of the mixture:

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

##### Classification procedure:

Calculation method
Calculation method

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.

#### Further reading:

L9 - The Safe Use of Pesticides for Non-Agricultural Purposes

L25 - Personal Protective Equipment at Work

GS46 - In-situ Timber Treatment Using Timber Preservatives

EH/40 - Occupational Exposure Limits (revised annually)

The Health & Safety at Work Act 1974

HSG206 - Cost Effectiveness of Chemical Protective Gloves for the Workplace

HSG71 - The Storage of Packed Dangerous Substances

HSG53 - The Selection, Use and Maintenance of Respiratory Protective Equipment

The Environmental Protection Act 1990

The Collection and Disposal of Waste Regulations

L5 - The Control of Substances Hazardous to Health Regulations 2003 Approved Code of Practice

Information on these and other relevant publications may be found by contacting the following:

E-mail: [hsebooks@prologue.uk.com](mailto:hsebooks@prologue.uk.com) or [www.hsebooks.co.uk](http://www.hsebooks.co.uk)

Alternatively, most Approved Codes of practice are now available to download for free: visit [www.hse.gov.uk](http://www.hse.gov.uk) or [www.businesslink.gov.uk](http://www.businesslink.gov.uk) and click on 'Workplace Health and safety'

Or write to: HSE Books, P.O. Box 1999, Sudbury, Suffolk CO10 2WA (Tel: 01787-881165) and obtain a free copy of the HSE Books catalogue.

The Health and safety Executive can also keep you regularly updated with new legislation and HSE news by going to:

[www.hse.gov.uk](http://www.hse.gov.uk) and following the links to the e-Bulletins

#### THE FOLLOWING SECTIONS SHOW CHANGED OR AMENDED INFORMATION:

1, 2, 11

COMPILED BY: P Parton

DATE: July 2021

#### NOTICE TO CUSTOMER:

**ENSURE ALL POTENTIAL USERS OF THIS PRODUCT ARE AWARE OF THIS SDS PRIOR TO PRODUCT'S USE.**

**KEEP SDS IN A SAFE PLACE READILY LOCATABLE IN CASE OF FUTURE USE.**

**READ THIS SDS IN CONJUNCTION WITH ANY LABEL AND DIRECTIONS FOR USE ON THE PRODUCT CONTAINER.**

**DESTROY ALL OBSOLETE COPIES RELATING TO THIS PRODUCT.**

**THIS SDS RELATES ONLY TO THE PRODUCT SPECIFIED.**

**COPIES OF THIS DOCUMENT ARE AVAILABLE ON REQUEST.**