



# WOOD FINISHES DIRECT

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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

#### 1.1 Product identifier

Trade name : WOOD PRESERVER ++  
HSE No : 10786

#### 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 : Protek, Crowne Trading Estate, Shepton Mallet, BA4 5QQ  
Telephone : +44 (0)1749 344697  
E-mail address of person responsible for the SDS : info@protekproducts.co.uk

#### 1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre

### 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 pictogram : 

Signal word : Warning

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

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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### 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 butyl carbamate. 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
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	(% w/w) ≥ 0.25 - < 1
2-ethylhexanoic acid, zirconium salt	22464-99-9 245-018-1 01-2119979088-21	Repr. 2; H361d	≥ 0.1 - < 1
tebuconazole (ISO)	107534-96-3 403-640-2 603-197-00-7 01-0000015329-67	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	≥ 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	≥ 0.025 - < 0.1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	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
Substances with a workplace exposure limit:			
(2-methoxymethylethoxy) propanol	34590-94-8 252-104-2 01-2119450011-60		>= 1 - < 10

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

For explanation of abbreviations see section 16.

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 %

## 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.



**WOOD PRESERVER ++**

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)      Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

---

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.

**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 : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.  
Unsuitable extinguishing media : None known.

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

Specific hazards during firefighting : Do not allow run-off from firefighting to enter drains or water courses.  
Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

**5.3 Advice for firefighters**

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

**SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

**6.2 Environmental precautions**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

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

## 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.

### 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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

Components	CAS-No.	Value type (Form)	Control parameters	Basis
(2-methoxymethlethoxy) 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 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., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
2-ethylhexanoic acid, zirconium salt	22464-99-9	TWA	5 mg/m <sup>3</sup>	GB EH40
		STEL	10 mg/m <sup>3</sup>	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 workplace.
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)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### SECTION 9: Physical and chemical properties

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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

No data available

### 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.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

GLP: yes  
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

### 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 : LD0 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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

#### 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

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

Species: Rabbit  
Result: No skin irritation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### **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**

#### **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.

### **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**

#### **Components:**

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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

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

Exposure routes: Dermal  
Species: Guinea pig  
Result: May cause sensitisation by skin contact.

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

Exposure routes: Skin contact  
Species: Humans  
Result: Not a skin sensitizer.  
GLP: no  
remarks: Patch test on human volunteers did not demonstrate sensitisation properties.

## **Germ cell mutagenicity**

### **Components:**

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

Genotoxicity in vitro      : Test system: Bacteria  
Method: OECD Test Guideline 471  
Result: negative

Test system: Mammalian-Animal  
Method: OECD Test Guideline 476



**WOOD PRESERVER ++**

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)      Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

---

Result: negative

Test system: Mammalian-Animal  
Method: OECD Test Guideline 473  
Result: negative

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

Genotoxicity in vitro

: Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version  
3.0

Revision Date:  
05.11.2019

SDS Number:  
103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version  
3.0

Revision Date:  
05.11.2019

SDS Number:  
103000026192 (Lanxess)

Date of last issue: 03.09.2019  
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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

#### Components:

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

Remarks: No known significant effects or critical hazards.

### Reproductive toxicity

#### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version  
3.0

Revision Date:  
05.11.2019

SDS Number:  
103000026192 (Lanxess)

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Country / Language: GB / EN(GB)

	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
<b>(2-methoxymethylethoxy) propanol:</b> Effects on fertility	: Test Type: Two-generation study Species: Rat, male and female Application Route: inhalation (vapour) Dose: 300 - 1000 - 3000 parts per million 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

### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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 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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### Further information

#### Product:

Remarks: No data available

## 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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### **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

### **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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

Remarks: Fresh water

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

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

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

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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

Toxicity to algae	Exposure time: 48 h : 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
<b>(2-methoxymethylethoxy) propanol:</b> Toxicity to fish	: LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l Exposure time: 96 h Analytical monitoring: yes 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 Analytical monitoring: no 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 Analytical monitoring: yes 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 Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: Fresh water
Toxicity to microorganisms	: EC10 (Pseudomonas putida): 4,168 mg/l End point: Growth rate

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

Exposure time: 18 h  
Analytical monitoring: no  
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)  
Analytical monitoring: no  
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:**

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)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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  
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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (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

## 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.

## 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)

**WOOD PRESERVER ++**

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

**14.3 Transport hazard class(es)**

ADN : 9  
ADR : 9  
RID : 9  
IMDG : 9  
IATA : 9

**14.4 Packing group**

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



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



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



**IMDG**  
Packing group : III  
Labels : 9



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



**14.5 Environmental hazards**

**ADN**  
Environmentally hazardous : yes



**ADR**  
Environmentally hazardous : yes



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## WOOD PRESERVER ++



Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### RID

Environmentally hazardous : yes



### IMDG

Marine pollutant : yes



### IATA (Passenger)

Environmentally hazardous : yes



### 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.

## 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 (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : permethrin (ISO)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

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

methylcyclohexane (Number on list: 3)

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	Quantity 2
		100 t	200 t

### 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

## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WOOD PRESERVER ++

Version 3.0      Revision Date: 05.11.2019      SDS Number: 103000026192 (Lanxess)

Date of last issue: 03.09.2019  
Country / Language: GB / EN(GB)

### 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)

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.