



# SAFETY DATA SHEET

5 STAR COMPLETE WOOD TREATMENT (BP)

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

### 1.1. Product identifier

**Product name** : 5 STAR COMPLETE WOOD TREATMENT (BP)

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

**Product use** : Waterborne preserver.

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

ICI Paints AkzoNobel,  
Wexham Road,  
Slough,  
Berkshire,  
SL2 5DS, U.K.  
Tel.: +44 (0) 333 222 71 71  
www.cuprinol.co.uk

**e-mail address of person responsible for this SDS** : cuprinol.advice@akzonobel.com

### 1.4 Emergency telephone number

**Telephone number** : Emergency Telephone : Slough +44 (0) 1753 550000

**Version** : 2

**Date of previous issue** : 16-6-2021

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : 0%

**Ingredients of unknown ecotoxicity** : 0%

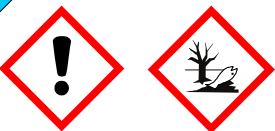
See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

## 5 STAR COMPLETE WOOD TREATMENT (BP)

## SECTION 2: Hazards identification

<b>Hazard pictograms</b>	: 
<b>Signal word</b>	: <input checked="" type="checkbox"/> Warning
<b>Hazard statements</b>	: <input checked="" type="checkbox"/> H319 - Causes serious eye irritation. <input checked="" type="checkbox"/> H410 - Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
<b>General</b>	: <input checked="" type="checkbox"/> P102 - Keep out of reach of children. <input checked="" type="checkbox"/> P101 - If medical advice is needed, have product container or label at hand.
<b>Prevention</b>	: <input checked="" type="checkbox"/> P280 - Wear eye or face protection. <input checked="" type="checkbox"/> P273 - Avoid release to the environment. <input checked="" type="checkbox"/> P264 - Wash hands thoroughly after handling.
<b>Response</b>	: <input checked="" type="checkbox"/> P391 - Collect spillage. <input checked="" type="checkbox"/> P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <input checked="" type="checkbox"/> P337 + P313 - If eye irritation persists: Get medical advice or attention.
<b>Storage</b>	: <input checked="" type="checkbox"/> Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/> P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.
<b>Supplemental label elements</b>	: <input checked="" type="checkbox"/> Contains permethrin (ISO), propiconazole (ISO), IPBC and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: <input checked="" type="checkbox"/> Not applicable.
<b>Special packaging requirements</b>	
<b>Containers to be fitted with child-resistant fastenings</b>	: <input checked="" type="checkbox"/> Not applicable.
<b>Tactile warning of danger</b>	: <input checked="" type="checkbox"/> Not applicable.

## 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: <input checked="" type="checkbox"/> This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: <input checked="" type="checkbox"/> None known.

## SECTION 3: Composition/information on ingredients

3.2 Mixtures :  Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> Alcohols, C9-11, ethoxylated permethrin (ISO)	CAS: 68439-46-3 EC: 258-067-9 CAS: 52645-53-1 Index: 613-058-00-2	≤2,5 ≤0,3	Eye Dam. 1, H318 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1] [1]
propiconazole (ISO)	EC: 262-104-4 CAS: 60207-90-1	<0,3	Acute Tox. 4, H302 Skin Sens. 1, H317	[1]

## 5 STAR COMPLETE WOOD TREATMENT (BP)

## SECTION 3: Composition/information on ingredients

IPBC	Index: 613-205-00-0  EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0,3	Repr. 1B, H360D Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
cyclohexane	EC: 203-806-2 CAS: 110-82-7 Index: 601-017-00-1	<0,1	Fam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)  <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## Type

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern  
 [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

- General** :  In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** :  Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** :  Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** :  Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** :  If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** :  No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

## 5 STAR COMPLETE WOOD TREATMENT (BP)

### SECTION 4: First aid measures

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains permethrin (ISO), propiconazole (ISO), IPBC, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
- Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

### SECTION 6: Accidental release measures

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

- For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

- Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

## 5 STAR COMPLETE WOOD TREATMENT (BP)

**SECTION 6: Accidental release measures**

- 6.3 Methods and material for containment and cleaning up** :  Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

- 7.1 Precautions for safe handling** :  Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically; always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.
- Information on fire and explosion protection**  
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

Store in accordance with local regulations.

**Notes on joint storage**

Keep away from: oxidising agents, strong alkalis, strong acids.

**Additional information on storage conditions**

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Seveso Directive - Reporting thresholds****Danger criteria**

Category	Notification and MAPP threshold	Safety report threshold
<input checked="" type="checkbox"/> 1	100 tonne	200 tonne

**7.3 Specific end use(s)**

- Recommendations** :  Not available.
- Industrial sector specific solutions** :  Not available.

## 5 STAR COMPLETE WOOD TREATMENT (BP)

**SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

**8.1 Control parameters**Occupational exposure limits

Product/ingredient name	Exposure limit values
cyclohexane	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> STEL: 1050 mg/m <sup>3</sup> 15 minutes. STEL: 300 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 350 mg/m <sup>3</sup> 8 hours.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

**8.2 Exposure controls**

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Use safety eyewear designed to protect against splash of liquids.

Skin protectionHand protection**Gloves**

: When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness ≥ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

**Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

## 5 STAR COMPLETE WOOD TREATMENT (BP)

**SECTION 8: Exposure controls/personal protection**

- Other skin protection** :  Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** :  If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

## OLD LEAD-BASED PAINTS:

When surfaces are to be prepared for painting, account should be taken of the age of the property and the possibility that lead-pigmented paint might be present. There is a possibility that ingestion or inhalation of scrapings or dust arising from the preparation work could cause health effects. As a working rule you should assume that this will be the case if the age of the property is pre 1960.

Where possible wet sanding or chemical stripping methods should be used with surfaces of this type to avoid the creation of dust. When dry sanding cannot be avoided, and effective local exhaust ventilation is not available, it is recommended that a dust respirator is worn, that is approved for use with lead dusts, and its type selected on the basis of the COSHH assessment, taking into account the Workplace Exposure Limit for lead in air. Furthermore, steps should be taken to ensure containment of the dusts created, and that all practicable measures are taken to clean up thoroughly all deposits of dusts in and around the affected area.

Respiratory protection in case of dust or spray mist formation. (particle filter EN143 type P2) Respiratory protection in case of vapour formation. (half mask with combination filter A2-P2 til concentrations of 0,5 Vol%.)

The current Control of Lead at Work Regulations approved code of practice should be consulted for advice on protective clothing and personal hygiene precautions. Care should also be taken to exclude visitors, members of the household and especially children from the affected area, during the actual work and the subsequent clean up operations. All scrapings, dust, etc. should be disposed of by the professional painting contractor as Hazardous Waste.

Extra precautions will also need to be taken when burning off old lead-based paints because fumes containing lead will be produced. It is recommended that a respirator, approved for use with particulate fumes of lead is selected on the basis of the COSHH assessment, taking into account the Workplace Exposure Limit for lead in air. Similar precautions to those given above about sanding should be taken with reference to protective clothing, disposal of scrapings and dusts, and exclusion of other personnel and especially children from the building during actual work and the subsequent clean up operations.

Avoid the inhalation of dust. Wear suitable face mask if dry sanding. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead.

## OLD LEAD-BASED PAINTS:

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Respiratory protection in case of dust or spray mist formation. (particle filter



## 5 STAR COMPLETE WOOD TREATMENT (BP)

**SECTION 8: Exposure controls/personal protection**

EN143 type P2) Respiratory protection in case of vapour formation. (half mask with combination filter A2-P2 til concentrations of 0,5 Vol%.)

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Avoid the inhalation of dust. Wear suitable face mask if dry sanding. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead.

**Environmental exposure controls** :  Do not allow to enter drains or watercourses.

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

<b>Physical state</b>	: <input checked="" type="checkbox"/> Liquid.
<b>Colour</b>	: Various: See label.
<b>Odour</b>	: <input checked="" type="checkbox"/> Not available.
<b>Odour threshold</b>	: <input checked="" type="checkbox"/> Not available.
<b>pH</b>	: <input checked="" type="checkbox"/> [Conc. (% w/w): 100%]
<b>Melting point/freezing point</b>	: <input checked="" type="checkbox"/> Not available.
<b>Initial boiling point and boiling range</b>	: <input checked="" type="checkbox"/> 100°C
<b>Flash point</b>	: Not applicable.
<b>Evaporation rate</b>	: <input checked="" type="checkbox"/> Not available.
<b>Upper/lower flammability or explosive limits</b>	: <input checked="" type="checkbox"/> Not available.
<b>Vapour pressure</b>	: <input checked="" type="checkbox"/> Not available.
<b>Vapour density</b>	: <input checked="" type="checkbox"/> Not available.
<b>Relative density</b>	: <input checked="" type="checkbox"/> 1,005
<b>Solubility(ies)</b>	: <input checked="" type="checkbox"/> Easily soluble in the following materials: cold water.
<b>Partition coefficient: n-octanol/ water</b>	: <input checked="" type="checkbox"/> Not available.
<b>Auto-ignition temperature</b>	: <input checked="" type="checkbox"/> Not available.
<b>Decomposition temperature</b>	: <input checked="" type="checkbox"/> Not available.
<b>Viscosity</b>	: <input checked="" type="checkbox"/> Kinematic (room temperature): 0,02 cm <sup>2</sup> /s Kinematic (40°C): 0,02 cm <sup>2</sup> /s
<b>Explosive properties</b>	: <input checked="" type="checkbox"/> Not available.
<b>Oxidising properties</b>	: <input checked="" type="checkbox"/> Not available.

**9.2. Other information**



**5 STAR COMPLETE WOOD TREATMENT (BP)****SECTION 9: Physical and chemical properties**

**Solubility in water** :  Not 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 recommended storage and handling conditions (see Section 7).

**10.3 Possibility of hazardous reactions** :  Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** :  When exposed to high temperatures may produce hazardous decomposition products.

**10.5 Incompatible materials** :  Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** :  Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains permethrin (ISO), propiconazole (ISO), IPBC, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> permethrin (ISO)	TDLo Oral	Rat	100 mg/kg	-
	TDLo Oral	Rat	43 mg/kg	-
IPBC	LD50 Oral	Rat	1470 mg/kg	-

**Conclusion/Summary** :  Not available.

**Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> 57560	N/A	N/A	277081	1187,5	N/A
permethrin (ISO)	500	N/A	N/A	11	N/A
propiconazole (ISO)	500	N/A	N/A	N/A	N/A
IPBC	500	N/A	700	3	N/A

**Irritation/Corrosion**

## 5 STAR COMPLETE WOOD TREATMENT (BP)

## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
permethrin (ISO)	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

**Conclusion/Summary** : Not available.

**Sensitisation**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** :  Not available.

**Carcinogenicity**

**Conclusion/Summary** :  Not available.

**Reproductive toxicity**

**Conclusion/Summary** :  Not available.

**Teratogenicity**

**Conclusion/Summary** :  Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
PBC	Category 1	-	-

**Aspiration hazard**

Not available.

**Other information** :  Not available.

## SECTION 12: Ecological information

## 12.1 Toxicity

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
permethrin (ISO)	Acute EC50 68 µg/l Marine water	Algae - Skeletonema costatum - Exponential growth phase	96 hours
	Acute EC50 72 µg/l Marine water	Algae - Skeletonema costatum - Exponential growth phase	96 hours
	Acute EC50 124 µg/l Marine water	Algae - Skeletonema costatum - Exponential growth phase	96 hours
	Acute EC50 92 µg/l Marine water	Algae - Skeletonema costatum - Exponential growth phase	96 hours
	Acute EC50 0,11 µg/l Fresh water	Crustaceans - Orconectes immunis	48 hours
	Acute EC50 0,76 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 0,6 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 0,151 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 0,32 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0,31 µg/l Fresh water	Crustaceans - Orconectes immunis	48 hours
	Acute LC50 0,25 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Larvae	48 hours
	Acute LC50 0,37 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Larvae	48 hours
	Acute LC50 0,37 µg/l Fresh water	Crustaceans - Gammarus	48 hours

## 5 STAR COMPLETE WOOD TREATMENT (BP)

## SECTION 12: Ecological information

propiconazole (ISO)	Acute LC50 0,79 ppb Fresh water	pseudolimnaeus	96 hours
	Chronic NOEC 0,039 ppb Fresh water	Fish - Lepomis macrochirus	21 days
	Chronic NOEC 0,06 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1,6 µg/l Fresh water	Daphnia - Daphnia magna	96 days
	Chronic NOEC 0,3 ppb Fresh water	Fish - Salvelinus fontinalis	246 days
	Chronic NOEC 0,66 µg/l Fresh water	Fish - Pimephales promelas	32 days
		Fish - Pimephales promelas - Embryo	
	Chronic NOEC 1,4 µg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
	Chronic NOEC 1,4 µg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
	Acute IC50 0,76 mg/l	Algae - Skeletonema costatum	72 hours
	Acute LC50 6,8 mg/l	Fish - Cyprinus Caprio	96 hours
	Acute LC50 2,6 mg/l	Fish - Leistomus xanthurus	96 hours
	Acute LC50 6,4 mg/l	Fish - Lepomis Macrochirus	96 hours
Acute LC50 5,3 mg/l	Fish - Oncorhynchus Mykiss	96 hours	
Acute LC50 0,99 mg/l Fresh water	Fish - Clarias batrachus - Fingerling	96 hours	
Chronic EC50 0,51 mg/l	Daphnia - Mysidopsis bahia	48 hours	

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
IPBC	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
permethrin (ISO)	6,5	-	high
propiconazole (ISO)	3,72	-	low
IPBC	2,81	-	low
cyclohexane	3,44	167	low

## 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 13.1 Waste treatment methods

Product

## 5 STAR COMPLETE WOOD TREATMENT (BP)

**SECTION 13: Disposal considerations**

**Methods of disposal** :  The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** :  The classification of the product may meet the criteria for a hazardous waste.

**Disposal considerations** :  Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**Packaging**

**Methods of disposal** :  The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** :  Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging	European waste catalogue (EWC)
<input checked="" type="checkbox"/> EPE Paint Guidelines	15 01 10* packaging containing residues of or contaminated by hazardous substances

**Special precautions** :  This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

**Information pertaining to IATA and ADN is considered not relevant since the material is not packaged in the correct approved packaging required of these methods of transport.**

	ADR	IMDG
<b>14.1 UN number</b>	<input checked="" type="checkbox"/> UN3082	<input checked="" type="checkbox"/> UN3082
<b>14.2 UN proper shipping name</b>	<input checked="" type="checkbox"/> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO))	<input checked="" type="checkbox"/> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO)). Marine pollutant (permethrin (ISO))
<b>14.3 Transport hazard class(es) Class</b>	<input checked="" type="checkbox"/> 9	<input checked="" type="checkbox"/> 9
<b>Subsidiary class</b>	<input checked="" type="checkbox"/> -	<input checked="" type="checkbox"/> -
<b>14.4 Packing group</b>	<input checked="" type="checkbox"/> III	<input checked="" type="checkbox"/> III
<b>14.5 Environmental hazards</b>		
<b>Marine pollutant</b>	<input checked="" type="checkbox"/> Yes.	<input checked="" type="checkbox"/> Yes.
<b>Marine pollutant substances</b>		<input checked="" type="checkbox"/> permethrin (ISO)

5 STAR COMPLETE WOOD TREATMENT (BP)		
<b>Information pertaining to IATA and ADN is considered not relevant since the material is not packaged in the correct approved packaging required of these methods of transport.</b>		
<b>14.6 Special precautions for user</b>	<input checked="" type="checkbox"/> <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
<b>HI/Kemler number</b>	<input checked="" type="checkbox"/> 90	<input checked="" type="checkbox"/>
<b>Emergency schedules (EmS)</b>		F-A, S-F
<b>14.7 Transport in bulk according to IMO instruments</b>	: Not applicable.	
<b>Additional information</b>	<input checked="" type="checkbox"/> This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	<input checked="" type="checkbox"/> This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed, or the component present is below its threshold.

###### Substances of very high concern

None of the components are listed, or the component present is below its threshold.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** :  Not applicable.

#### Other EU regulations

**VOC for Ready-for-Use Mixture** :  Not applicable.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### National regulations

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

## 5 STAR COMPLETE WOOD TREATMENT (BP)

**SECTION 15: Regulatory information**Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**15.2 Chemical safety assessment** :  No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**CEPE code** :

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
<input checked="" type="checkbox"/> Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

<input checked="" type="checkbox"/> H225 H302 H304 H315 H317 H318 H319 H331 H332 H336 H360D H372  H400 H410	Highly flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Toxic if inhaled. Harmful if inhaled. May cause drowsiness or dizziness. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

<input checked="" type="checkbox"/> Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Repr. 1B	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 REPRODUCTIVE TOXICITY - Category 1B
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## 5 STAR COMPLETE WOOD TREATMENT (BP)

## SECTION 16: Other information

Skin Irrit. 2 Skin Sens. 1 STOT RE 1	SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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**Notice to reader**

***IMPORTANT NOTE*** *The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.*

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