



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

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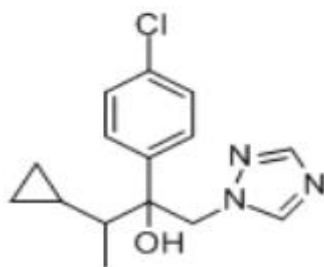
### 1. Chemical Product Identification

Product Name: Cyproconazole 95% TC

Molecular Formula: C<sub>15</sub>H<sub>18</sub>ClN<sub>3</sub>O

Molecular Weight: 291.78

Structural Formula:



Chemical Name: (2RS,3RS;2RS,3SR)-2-(4-chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol

Form: Loose powder

Colour: Off-white

CAS No.: 94361-06-5

### 2. Composition / Information On Ingredients

Composition	Chemical name	Content (% w/w)
Active ingredient	Cyproconazole	95%
Other ingredient	-----	5%

### 3. Hazards Identification



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May be harmful if ingested, inhaled, or absorbed through the skin. May cause irritation. To the best of our knowledge, the toxicological properties of this compound have not been fully investigated. Exercise appropriate precautions to prevent opportunities for inhalation, and to prevent direct contact with skin and eyes. All uncharacterized chemicals should be treated as suspected toxins.

#### **4. First Aid Measures**

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **5. Fire-Fighting Measures**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: Wear self contained breathing apparatus for fire fighting if necessary.

#### **6. Accidental Release Measures**

Personal precautions: Use personal protective clothing.

Environmental precautions: Do not allow material to enter sewers, surface, ground, water and soil. If contamination occurs inform Authorities.

Methods for cleaning up or taking up:

For large amounts: Pump off product.

For residues: Contain spill. Absorb spilled product with inert materials. Wash contaminated areas with soda solution, absorb with inert material and send to disposal.

#### **7. Handling And Storage**



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Avoid eye, skin, mouth contact. Store in original containers away from food stuffs, animal feed.

## **8. Exposure Controls/personal protection**

Personal protective equipment

Hand protection: Chemical-resistant gloves

Eye protection: Chemical tight goggles, full faceshield in addition if splashing is possible.

Body protection: Protective suit

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or snuff taking at the place of work. Keep away from food, drink and animal feeding stuffs.

## **9. Physical And Chemical Properties**

Appearance: Off-white loose powder

Density: 1.26 g/ml

pH: 6.0-8.0

Melting Point: 106.5°C

Partition Coefficient: log P= 3.09 (pH 7, 20°C)

Vapour pressure: 0.026mPa (25°C)

Solubility: 93 mg/L in water (20°C); In organic solvents: acetone 360 g/l, ethyl acetate 240 g/l, hexane 1.3 g/l, methanol 410 g/l (all at 20°C).

## **10. Stability And Reactivity**

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid: None known.

Incompatibility with other materials: None known.

Hazardous decomposition products: Can decompose at high temperatures forming toxic gases.

Hazardous polymerization: Will not occur.

## **11. Toxicological Information**

Acute oral LD50 for rats: 1020 mg/kg (male); 1333 mg/kg (female)



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Acute dermal LD50 for rats: >5000 mg/kg

Acute inhalation toxicity LC50 (4h) for rats: >1.4 mg/l.

Skin irritation: No irritation for rabbits.

Eye irritation: No irritation for rabbits

Skin Sensitization: Non-sensitive (Guinea Pig)

## **12. Ecological And Ecotoxicological Information**

Effects on bees:

Oral acute 48 hour LD50 is >100 µg/bee, Contact acute 48 hour LD50 is >100 µg/bee.

Effects on fish:

Acute 96 hour LC50 for Rainbow trout is 19 mg/l.

Effect on aquatic invertebrates:

Acute 48 hour EC50 for Daphnia magna is 26 mg/l

Effects on birds:

Acute oral LD50 for Japanese quail is 150 mg/kg

Effect on Algal:

Acute 72 hour EC50 is 0.1 mg/l

## **13. Disposal Considerations**

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

Contaminated packaging should be emptied as far as possible and disposed of in accordance with official regulations after being thoroughly cleaned.

Uncontaminated packaging may be treated as household waste.

## **14. Transport Information**

Not applicable

## **15. Regulatory Information**

Not applicable

## **16. Other Information**



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All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.