



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

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1. Chemical Product Identification

Product Name: Propiconazole 95%Tech

Molecular Formula: C₁₅H₁₇Cl₂N₃O₂

Molecular Weight: 342.2

Structural Formula:

Chemical Name:

(\rightarrow)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole

Form: liquid

Colour: clear yellow

Odour: solvent odor

CAS No.: 60207-90-1

UN No.: 2996

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Propiconazole	60207 – 90 – 1	95.0
Other ingredients		5.0

3. Hazards Identification

More important danger for the man: none

Dangers for the environment: toxic to aquatic

Physical-chemical dangers: can decompose at high temperatures forming toxic gases.

4. First Aid Measures

Skin: remove contaminated clothing and wash affected areas thoroughly with soap and water.

Eyes: flush with large quantities of clean tap water for at least 15 minutes.

Inhalation: move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

Ingestion: do not induce vomiting. Give glass of water. Get to a doctor.

Notes to physician: Propiconazole has no specific antidote if ingested. Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media



To be used: CO₂, dry chemical, and foam

Don't use: not applicable

Particular risk: none

Measures of personal protection: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

6. Accidental Release Measures

Personal cautions: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Cleaning methods

EX: clear the liquid formation. Transfer to a properly labelled deposit that will be closed and sealed until the recovery of elimination of the product.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

7. Handling And Storage

Handling: do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

Storage:

Technical protective measures: store in original container only in cool, dry, well-ventilated, secure area at minimum storage temperatures and out of reach of children and animals.

Fire and explosion protection: the area must be far from fire and flammable materials

8. Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection: approved respirator

Protective gloves: rubber gloves

Eye protection: goggles

Industrial hygiene: appropriate protective clothing.

9. Physical And Chemical Properties

Melting point: not applicable

Boiling point : 120°C

Relative Density: 1.29@20°C

Water solubility: 0.1g/L (20°C)

Other solubility: soluble

Ph value: ≤0.3 (expressed as H₂SO₄)

Vapor pressure : 0.027mPa@20°C

Partition coefficient : KowlogP=3.72(pH6.6,25°C)

10. Stability And Reactivity

Conditions to avoid: fire and heat

Products to avoid: not applicable



Thermal decomposition: not applicable

Hazardous decomposition products: toxic gases.

Hazardous reaction: not applicable

11. Toxicological Information

Contact with the skin: irritative to skin

Contact with the eyes: irritative to eyes

Inhalation: prolonged inhalation of vapors can cause respiratory tract irritation and central nervous system depression, resulting in headache, dizziness, blurred vision, confusion, or nausea

Ingestion: abdominal pain, nausea, gastritis, breathing difficulty, or diarrhea can occur.

Sharp toxicity: none

Effects for chronic toxicity: studies show that there is no finding neurotoxicity, reproductive effects, but increase incidence of liver tumors at extremely high doses (male mice)

Sensitisation: propiconazole technical was not inducing a sensitizing reaction in guinea pigs.

12. Ecological And Ecotoxicological Information

Aquatic organisms: Propiconazole had the following EC50/LC50 values in ppm for freshwater fish species: bluegill 1.3-10.2, brown trout 3.3, rainbow trout 0.9-13.2, carp 6.8-21.0, catfish 2.0-5.1, and fathead minnow 7.6.

Another laboratory trial found LC50 (96-hour) values to be 20 mg/l water for brown trout and >100 mg/l for carp.

Crayfish 42.0ppm, water flea 3.2-11.5 ppm. The marine species oyster and Mysid shrimp had EC50/LC50 values of 0.3ppm and 0.5-1.4ppm, respectively.

Bird: Mallard duck >2,510 mg/kg, Peking duck >3,000 mg/kg, Japanese quail 2,223 mg/kg, and bobwhite quail 2,825 mg/kg.

Other Animals (Non-target species)

Propiconazole does not appear to have any adverse effects on soil microbes as evidenced by soil biochemical analyses. Evaluations were made at concentrations up to and including 100 ppm. At this highest level, no changes were observed in cellulose, starch, or protein decomposition, nitrification, nitrogen fixation, or respiration. Propiconazole displayed no toxic effects to earthworms.

13. Disposal Considerations

Product: do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and environmental regulations.

14. Transport Information

Transport

UN No.: 2996



15. Regulatory Information

Symbol: T

R phrases: R25/36/37

S phrases: S2/7/9/13/36/39

16. Other Information

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.