

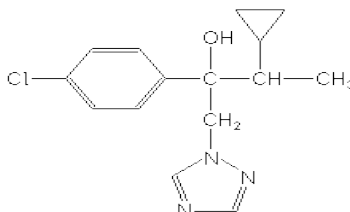
TECHNICAL DATA SHEET CYPROCONAZOLE TECHNICAL

1. INTRODUCTION

Cyproconazole is a broad-spectrum fungicide with special strength for control of Septoria, rust, powdery mildew, Rhynchosporium, Cercospora and Ramularia in cereals and sugar beet, and rust, Mycena, Sclerotinia and Rhizoctonia in coffee.

2. ACTIVE INGREDIENT

Common name	:	Cyproconazole
Chemical Name	:	(2 <i>RS</i> ,3 <i>RS</i> ;2 <i>RS</i> ,3 <i>SR</i>)-2-(4-chlorophenyl)-3-cyclopropyl-1-(1 <i>H</i> -1,2,4-triazol-1-yl)butan-2-ol
Chemical Group	:	Conazole Fungicide
CAS Registry No.	:	94361-06-5
Molecular Formula	:	C ₁₅ H ₁₈ ClN ₃ O
Structural Formula	:	



Molecular weight	:	291.8
Technical Purity	:	96% Min

3. PHYSICOCHEMICAL PROPERTIES

Appearance	:	Off white powder
Boiling Point	:	>250°C
Melting Point	:	106-109 °C
Kow logP	:	2.91 (pH 7)
S.g./density	:	1.259 g/cm ³
Flash Point	:	No reaction up to 360 °C
Vapor Pressure	:	2.6 × 10 ⁻² mPa (25 °C)

Solubility In water : In water 140 mg/l (25 °C).

Solubility in solvents: In acetone 230, ethanol 230, dimethyl sulfoxide 180, xylene 120 (all in g/l, 25 °C).

Stability : Decomposition is <5% after storage for 2 years. Stable in aqueous solutions at pH 1-9 for a test period of 35 days (50 °C) or 14 days (80 °C). Slowly hydrolysed in 1N HCl and NaOH

4. MODE OF ACTION

Cyproconazole is a systemic fungicide with protective, curative, and eradicator action. Absorbed rapidly by the plant, with translocation acropetally

5. TOXICITY

Oral	Acute oral LD ₅₀ for male rats 1020, female rats 1333, male mice 200, female mice 218 mg/kg.
Skin and eye	Acute percutaneous LD ₅₀ for rats and rabbits >2000 mg/kg. Non-irritating to skin and eyes (rabbits). Non-irritating to skin, and not a skin sensitizer (guinea pigs).
Inhalation	LC ₅₀ (4 h) for rats >5.65 mg/l air.
NOEL	(1 y) for dogs 1 mg/kg b.w. daily; (2 y) for rats 1 mg/kg b.w. daily.
Other	Not mutagenic in the Ames assay.
Toxicity class	WHO (a.i.) II EC hazard (R22)

6. ECOTOXICITY

Birds	Acute oral LD ₅₀ for Japanese quail 150 mg/kg. Dietary LC ₅₀ (8 d) for Japanese quail 816, mallard ducks 1197 mg/kg diet.
Fish	LC ₅₀ (96 h) for carp 18.9, trout 19, bluegill sunfish 21 mg/l.
Daphnia	LC ₅₀ (48 h) 26 mg/l.
Bees	LD ₅₀ (contact) >0.1 mg/bee; (oral) >1 mg/bee.

7 HANDLING & STORAGE

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Manufactured & Supplied by:

Coromandel International Limited
Coromandel House, No.1-2-10, Sardar Patel Road,
Secunderabad – 500003
Telangana, INDIA
Tel: +91-40-27842034/27847212
Fax: +91-40-27844117
Website: www.coromandel.biz