

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Barclay Shandon
Chemical Name: α -(4-chlorophenyl)- α -(1-cyclopropylethyl)-1 *H*-1,2,4-triazol-1-ethanol
Synonyms: Cyproconazole
Group Name: Triazole derivative.
Formula: C₁₅H₁₈ClN₃O
Approved Use: For use only as an agricultural fungicide for the control of disease in Winter Wheat/Barley and Spring Barley.
Supplier: Barclay Chemicals Manufacturing Ltd.,
 Damastown Way
 Damastown Industrial Park
 Mulhuddart
 Dublin 15
 Ireland
Telephone No: 01 8112900
Fax No: 01 8224678
Issued By: Barclay Chemicals Ltd.

EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)
00-353-863857769 (5pm to 9am)

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	Cyproconazole
2.	Co-formulats

No.	CAS No.	R Phrases	Concentration	Classification
1.	094361-06-5	R22, R52	8.8% w/w	Xn
2.	--	--	to 100% w/w	--

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive,
 O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the
 Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

3. HAZARDS IDENTIFICATION

Human: Non Hazardous.
 Environment: Harmful to fish or other aquatic life.

4. FIRST-AID MEASURES

General:	There is no specific antidote known. Always seek medical advice in cases of personal contamination.
Inhalation:	Remove patient from exposure. Seek medical attention immediately.
Skin Contact:	Remove contaminated clothing, goggles and respirator. Wash off with soap and water.
Eye Contact:	Flush immediately with plenty of water for at least 15 minutes keeping eyelids open. Seek medical attention.
Ingestion:	Rinse mouth with water. Seek medical advice immediately and show the container or label. Do not induce vomiting.
Medical Information:	For specialist advice doctors should contact the nearest Poisons Information Centre.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Extinguish source of fire, preferably with an inert powder, foam, CO ₂ and or water spray. Keep containers cool with a water jet. Contain fire-fighting water, bundling if necessary with sand or earth.
Unsuitable Extinguishing Media:	Not known.
Special Exposure Hazards:	Hazardous combustion gases include oxides of nitrogen, carbon and hydrogen chloride
Protective Equipment:	Wear full protective clothing, goggles and respirator.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear as appropriate, chemical resistant rubber gloves, coated overall, PVC or rubber wellingtons and goggles.
Environmental Precautions:	Contain spillage particularly to prevent contamination of water, ditches and streams etc. Inform Local County Council or National Rivers Authority Purification if spillage enters surface water.
Methods for Cleaning Up:	Do not flush with water. Absorb with sand or earth. Collect contaminated earth or sand and place in suitably marked containers for disposal.

7. HANDLING AND STORAGE

Handling:	Wear suitable protective clothing when handling the product. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke. Do not breathe spray.
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Storage: Store in original container - tightly closed in a safe place. Keep cool and dry.
Maximum storage temperature : CA - 40°C
Minimum storage temperature : CA - 10°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautions: Wear suitable protective gloves and face protection (face shields) when handling concentrate.
Wash all protective clothing thoroughly after use, especially the insides of gloves.
When using do not eat, drink or smoke.
Wash splashes from skin or eyes immediately
Do not breathe spray.
Wash hands and exposed skin before meals and after work.
Keep out of reach of children.

Protective Clothing: *Respiratory Protection:* Approved respiratory equipment may be worn if required.
Eye Protection: Standard face shield should be worn when dealing with granules or spray.
Hand Protection: PVC or other rubber material gloves should be used when handling the granules or the spray.
Skin Protection: Light weight protective clothing should be worn to prevent contamination.

Occupational Exposure Limits: None assigned

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid, yellow-brown
Odour: None
pH 3.5 @ 20°C (@ 10g/l H₂O)
Boiling Point/Boiling Range: Not known
Melting Point/Melting Range: Not applicable
Flash Point: > 100°C
Flammability: Not known
Autoflammability: Not known
Explosive Properties: Not known
Oxidizing Properties: Not known
Vapour Pressure: Not known
Relative Density: 1.13 (kg / dm³)
Solubility (water and fat): Emulsifiable at 20°C

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Use as recommended.
Materials to Avoid:	There are no specific materials to avoid but store and use only as directed
Hazardous Decomposition Products:	Not known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Product has low acute toxicity.
Irritation:	Non-irritant to skin and eyes
Sensitization:	Non sensitizer

12. ECOLOGICAL INFORMATION

Mobility:	Low mobility.
Degradability:	In soil cyproconazole degrades moderately quickly.
Accumulation:	No residues were detectable 4 months after application, and so accumulative toxicity is extremely low.

13. DISPOSAL CONSIDERATIONS

Product and Waste:	Dispose of via an authorised disposal contractor, or by incineration by a licensed incinerator.
Containers:	Crush and bury or dispose of via an approved disposal contractor. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Special Transport Precautions:	None
Road/Rail Classification:	No specification
IMDG Classification:	No specification
Air Classification:	No specification

15. REGULATORY INFORMATION

S PHRASES

- S2- Keep out of reach of children.
- S13 - Keep away from food, drink and animal feed.
- S20/21 - When using, do not eat , drink or smoke.
- S45 - In the case of accident or if you feel unwell , seek medical advice (Show the label if possible)
- S46 - If swallowed, seek medical advice immediately and show the container or label.
- S49 - Keep in original containers.

16. OTHER INFORMATION

Revision No: 1	Date: 02.04.01
Revision No: 2	Revision Date: 24.06.02
Revision No: 3	Revision Date: 15.04.03
Revision No: 4	Revision Date: 21.10.04 Supplier details Correction, change tel. no.
Revision No:5	Revision Date: 11.12.06

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources, which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 93/112/EEC.
