

SAFETY DATA SHEET



Curfew[®]

Date of Issue: June 2011

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Cymoxanil 450 g/litre
Recommended use: Agricultural/horticultural fungicide

Supplier: Etec Crop Solutions Ltd
31 Tamaki Bay Drive
Pakuranga
Auckland

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: Toxic 6.1D, 6.3B, 6.4A, 6.5B, 6.9B
Ecotoxic 9.1B, 9.3C

Required identification Details: **Toxic** if ingested. May cause liver damage if ingested at high dose rates for a prolonged period of time.
May cause severe **eye irritation**. Wear eye protection when mixing or applying. Irritating to skin. May cause skin sensitization. Avoid skin contact.
Toxic to Fish. Avoid contamination of any water supply with chemical or empty container.
Do not apply Curfew onto or near water

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
cymoxanil	5796695-7	45%
Inert Ingredients		55%

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation:

Remove to fresh air. Apply artificial respiration if necessary. Get medical help if breathing difficulty persists

Ingestion:

May be harmful if swallowed. Do not induce vomiting. Give a glass or two of water. Get medical help. Never give anything by mouth to an unconscious

Skin contact:	person. May cause Skin sensitisation. Remove contaminated clothing. Wash with soap and water. If irritation persists see a doctor.
Eye contact:	Irritating to eyes. Immediately flush with water for 15 minutes. If irritation persists see a doctor
Notes to a physician:	Treat symptomatically. No specific antidote is known.
Workplace facilities:	
Required Instructions:	

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	HAZCHEM 2X
Extinguishing media :	CALL FIRE SERVICE ON 111 informing them of the UN No Fog, dry chemical powder, CO ₂ , Alcohol or polymer foam, water spray
Hazardous thermal (de)composition products:	HCl, carbon dioxide and NO ₂ . Traces of other toxic gases cannot be excluded under certain fire conditions.
Protection of fire-fighters:	Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases. Run-off from fire control may be a pollution hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use appropriate Personal Protection Equipment (as in section 8) during clean up.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Methods for cleaning up:	Contain spill - do not allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area. Sweep up carefully and shovel or sweep up. Transfer to a closable, labelled salvage container for disposal by an appropriate method (eg. bury in an approved landfill).

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and clothing. Avoid inhalation of fog or vapours. Do not eat, drink or smoke while handling.
Storage:	Store in original container, tightly closed in a locked, dry, well ventilated place away from food or feedstuffs. Keep away from sparks, heat and flames. Keep out of reach of children or animals.
Packaging materials:	

8. PERSONAL PROTECTION

Personal Protective Equipment

Detail specifications for equipment:	Avoid contact with skin and eyes. Do not inhale spray. Wear
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long sleeved shirt, long pants ,waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Respiratory system:

Skin and body:

Mixers and loader must wear overalls, protective goggles and chemical resistant apron. Applicators and other operators must

wear overalls, protective goggles and and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

Hands:

Protective gloves

Eyes:

Safety goggles

General hygiene:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granules
Colour:	Beige
Odour:	Characteristic
pH:	N.A.
Solubility:	Disperses
Specific gravity or density:	Not available
Octanol/water partition coefficient:	
Explosion properties:	Non explosive
Oxidation properties:	Not an oxidant

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Conditions to avoid:	Non specified
Materials to avoid:	None specified
Hazardous decomposition Products:	Fire: HCl, carbon dioxide and NO ₂ . Traces of other toxic gases cannot be excluded under certain fire conditions.
Hazardous polymerization:	Does not polymerise
Hazardous reactions :	None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD50 > 2,000 mg/kg (Rat)
Acute toxicity - Dermal :	Acute Dermal LD50 > 2,000 mg/kg (Rat)
Acute toxicity – Inhalation:	Not relevant (Granule)
Skin irritation :	Irritant, may cause skin sensitisation.
Eye irritation:	Irritant. May cause severe eye irritation.
Sensitization :	May cause skin irritation.
Common name :	cymoxanil

Chronic toxicity :
Carcinogenicity: Not carcinogenic
Mutagenicity: Not mutagenic
Reproduction toxicity: Not a reproductive toxin

Other information :

12. ECOLOGICAL INFORMATION

Very ecotoxic in aquatic environment
LC 50 = 10 mg/litre, 96 hr (Rainbow trout)
EC50 (Daphnia trout / 48hr) >100 mg/l
Do not contaminate bodies of water with chemical or empty container.

Water Bees Non toxic to terrestrial invertebrates, contact LC50 Honeybee > 100µg/bee.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Triple rinse container and add residue to spray tank. Submit clean empty container for recycling through Agrecovery. If this is not possible, burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

14. TRANSPORT INFORMATION

International transport regulations
International transport regulations:

UN number: 3077
Land - Road/Railway Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (CYMOXANIL)

15. REGULATORY INFORMATION

ACVM Registered Number: P8010
HSNO Approval Code: HSR100090

16. OTHER INFORMATION

Additional information:

Disclaimer:

To the extent permitted by law, buyers and/or users of the goods accept that neither The manufacturer, Etec Crop Solutions Ltd as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

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