

Material Safety Data Sheet

Product Name: Cymoxanil 25%WG

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Cymoxanil
Formulation: 25% WG
CAS: 57966-95-7
Chemical Name: 1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea
Molecular Weight: 198.2
Chemical Formulation: C₇H₁₀N₄O₃
Chemical Structure:



Uses: Control of Peronosporales, especially Peronospora, Phytophthora, and Plasmopara spp. Normally used in combination with protectant fungicides on a range of crops, including vines, hops, potatoes, and tomatoes.

Manufacturer: Nanjing Essence Fine-Chemical Co., Ltd
Address: 5th Floor, Suoye Road 18#, Nanjing, China
Telephone Number: +86 25 86465997
 +86 25 86466001
Fax Number: +86 25 86455985
Website: www.essencechem.com

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average by Weight</u>
Cymoxanil	57966-95-7	25%

SECTION 3. HAZARDS IDENTIFICATION

Eye Contact: Cause temporary reversible eye irritation with tearing, pain or blurred vision.

Skin Contact: Cause temporary reversible irritation with itching, redness,

	swelling or rash.
Inhalation:	Cause irritation of the respiratory tract with sneezing or runny nose.
Swallowing:	Cause temporary central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness, changes in hematology measurements, pathological changes in the liver, and weight loss.
Carcinogenicity:	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

SECTION 4. FIRST AID MEASURES

Eye Contact:	Eye irritation is expected to be minimal to nonexistent, but contact a physician if irritation persists.
Skin Contact:	Skin irritation is expected to be minimal to nonexistent, but contact a physician if irritation persists.
Inhalation:	Inhalation toxicity is not expected to occur, but contact a physician if symptoms are noted.
Swallowing:	Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5. FIRE FIGHTING MEASURES

Fighting Instructions:	Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Runoff from fire control may be a pollution hazard. If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce byproducts more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.
Extinguish Media:	Water Spray, Foam, Dry Chemical, CO2.
Flammable Properties:	The material poses no explosion hazard in granular form.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Safeguards:	Wear personal protective equipment. Do not flush into surface water or sanitary sewer system.
Clean-up Procedure:	Clean up promptly by sweeping or vacuum. Shovel into suitable container for disposal. Use approved industrial vacuum cleaner for removal.

SECTION 7. HANDLING AND STORAGE

Handling:	Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove personal protective equipment immediately after handling this product. Do not breathe dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not store or consume food, drink or use tobacco in areas where they may become contaminated with this material.
Storage:	Keep container tightly closed when not in use. Store product in original container only, away from other pesticides, fertilizer, food or feed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Ensure adequate ventilation, especially in confined areas.
Personal Protection:	Not required respiratory protection except in case of aerosol formation. Half mask with a particle filter. Wear nitrile rubber gloves. Wear safety glasses with side-shields and lightweight protective clothing. Wash hands and face before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, granule
Clour:	Brown
Odour:	Bland (very faint)
Flash Point:	Not applicable
Ignition Temperature:	> 360 °C
Bulk Density:	600 kg/m ³
Solubility in Water:	Dispersible

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable at normal temperatures and storage conditions.
Incompatibility:	None reasonably foreseeable.
Polymerization:	Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Oral:	Acute LD50 -male and female rats: 960 mg/kg
Dermal:	Acute LD50 -rabbits >2000 mg/kg
Inhalation:	LC50 (4 h) -male and female rats >5.06 mg/l
Other Effects:	In animal testing Cymoxanil has not caused carcinogenicity. Animal testing show developmental effects only at similar exposure levels producing other toxic effects in the adult animal. Tests have shown Cymoxanil to cause reproductive toxicity in animals, however, only at levels producing toxic effects in the adult animal. Cymoxanil has not produced genetic damage in bacterial cultures. In mammalian cell cultures Cymoxanil has caused genetic toxicity. It has not produced genetic damage in tests on animals. In animal testing, Cymoxanil has not caused permanent genetic damage in reproductive cells of mammals (has not produced heritable genetic damage).

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	LC50(96h) - Rainbow trout: 61 mg/L LC50(96h) - Bluegill sunfish: 29 mg/L EC50(96h) - Daphnia magna: 27 mg/L
Terrestrial Toxicity:	LD50 - Bobwhite Quail: > 2250 mg/kg LD50 - Mallard Duck: > 2250 mg/kg LC50 - Bobwhite Quail: > 5620 ppm LC50 - Mallard Duck: > 5620 ppm

SECTION 13. DISPOSAL CONSIDERATIONS

Product Disposal:	Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed
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of on site or at an approved waste disposal facility.

Container Disposal:

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

Proper Shipping Name: Environmentally hazardous substance, solid, n. o. s. (Cymoxanil)

UN: 3077

Class: 9

Packaging group: III

Classification Code: M7

Marine pollutant: Yes

SECTION 15. REGULATORY INFORMATION

Symbol(s) : Xn Harmful

 N Dangerous for the environment

R22: Harmful if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S46: If swallowed, seek medical advice immediately and show this container or label.

S35: This material and its container must be disposed of in a safe way.

S57: Use appropriate containment to avoid environmental contamination.

SECTION 16. OTHER INFORMATION

This product is toxic to fish and aquatic invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.