



MATERIAL SAFETY DATA SHEET

PRODUCT : Cymoxanil 50% WP

PRODUCT DESIGNATION : Fungicide

Section 1. Product & Company Identification

Common Name : Cymoxanil

Grade : Formulation

Active Ingredient : Cymoxanil

Chemical Name of Active Ingredient (IUPAC) : 1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea

Chemical Family of A. I. : Fungicide/Bactericide

Molecular Formula of A. I. : C₇H₁₀N₄O₃

Molecular Mass of A. I. : 198.18g/mol

Manufacturer & Supplier : **M/s PERFECT SOLUTIONS**

Office Add: B-371, Paschim Vihar, New Delhi - 110063 (India)

Factory Add: 15/1, 15/2, 15/3 Industrial Estate, Vidisha - 464001 (M.P.)

Telephone Number : +91 8375844625

Section 2. Composition / Information on Ingredients

<u>Name of Components</u>	<u>Concentration% w/w</u>
Cymoxanil a.i	50.00% w/w
Other ingredient	Q.S.% w/w

TOTAL **100.00% w/w**

Section 3. Hazards Identification

Emergency Overview: WARNING! MAY BE FATAL IF SWALLOWED. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.

Potential Health Effects: Based on animal data, inhalation of Cymoxanil may cause eye irritation with tearing, pain or blurred vision, irritation of the nose and throat with sneezing, sore throat or runny nose, and incoordination. Based on animal data, skin contact with



Cymoxanil may cause irritation with itching, burning, redness, swelling or rash. Based on animal data, eye contact with Cymoxanil may cause eye irritation with tearing, pain or blurred vision. Based on animal data, ingestion of Cymoxanil may 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.

Section 4. First Aid Measures

Swallowed: Call poison control center or doctor immediately for treatment advice. Have a 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. **Skin contact:** Flush contaminated hair and skin with copious amounts of fresh water. Wash skin and hair with soap and water.

Ingestion: If accidental oral ingestion occurs, the stomach should be emptied by vomiting and lavage with water, followed by a saline cathartic, such as sodium sulfate.

Eye contact: Flush contaminated eyes with copious amounts of fresh water.

Section 5. Fire Fighting Measures

Flammable Properties: The material poses no explosion hazard in granular form. **Extinguishing Media:** Water Spray, Foam, Dry Chemical, CO₂. **Fire 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 by-products 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.

Section 6. Accidental Release Measures

Safeguards (Personnel)

NOTE: Review fire fighting measures and handling (Personal) sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up.



Emergency Response -Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use approved respirator protection.

Initial Containment Remove source of heat, sparks, flame, impact, friction or electricity. Follow applicable Federal, State/Provincial and Local laws/ regulations. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up: Shovel or sweep up.

Section 7. Handling & Storage

Handling (Personnel): 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.

Handling (Physical Aspects): Avoid dust generation.

Storage: Keep container tightly closed. Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

Section 8. Exposure Control, Personal Protection

Engineering Controls: Use only with adequate ventilation. When handlers use enclosed cabs or aircraft in a manner that meets the requirements listed in the Workers Protection Standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in the WPS.

Personal Protective Equipment: Always follow the label instructions when handling this product.

Applicators and other handlers must wear: Long-sleeved shirt and long pants. Protective Gloves Shoes plus socks. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls over long sleeved shirt and long pants. Chemical Resistant Gloves Shoes Plus Socks During aerial application, human flaggers must be in enclosed cabs.



Section 9. Physical and Chemical Properties

Appearance / state	: Peach coloured solid
Colour	: Peach coloured
Odour	: Odorless
Melting point	: 160- 161 °C
Vapour pressure	: 0.080 mPa (extrapolated to 25 °C)
pH	: 5-7.5
Bulk Density	: 1.31 kg/m ³
Flash Point	: 100°C Closed cup.
Water Solubility	: In water - 890 mg/Kg (pH 5, 20 °C)

Section 10. Stability & Reactivity

Chemical Stability: Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials: None reasonably foreseeable.

Polymerization: Polymerization will not occur.

Section 11. Toxicological Information

Acute Oral Toxicity LD₅₀ for rats >1,000mg/kg

Acute Dermal Toxicity LD₅₀ >2,000 mg /kg

Acute Inhalation LC₅₀ (4h) for male and female rats >6.5mg/l

Eye Irritation Not an eye irritant

Skin Irritant Non irritant in rabbit

Skin sensitization Not a skin sensitizer

Section 12. Ecological Information

Birds Acute oral LD₅₀ for Bobwhite Quail and Mallard Ducks >2000 mg/kg

Fish LC₅₀ (96h) for Rainbow trout 61mg/l , bluegill fish 29mg/l

Bees Not toxic to bees,

LC₅₀ (48h, oral) >100µg



Section 13. Disposal Consideration

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not contaminate water supply, food or feed by storage or disposal. Do not flush to surface water or sanitary sewer system. Wastes resulting from the use of this product may be disposed 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

IMDG Classification

Shipping name : PESTICIDE, SOLID, TOXIC N.O.S.

Class : 9

Packing group : III

UN number : 3077

Marine pollutant : Yes

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations :Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

Section 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 in 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



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Email: info@perfectsolution.best

recipient subsequently produces formulations(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

Safety Division :PERFECT SOLUTIONS, SAFETY DIVISION