

INDOFIL INDUSTRIES LIMITED
 KOLSHET, OFF SWAMI VIVEKANAND ROAD,
 AZAD NAGAR, SANDOZ BAUG P.O.,
 THANE – 400 607. MAHARASHTRA (INDIA)
 TEL. NO. : 00-91-22- 67999100
 FAX NO. : 00-91-22-2589 83 57



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

| | | |
|----------------------|---|---|
| Chemical Name | CYMOXANIL 50% WP WETTABLE POWDER | Company Identification Indofil Industries Limited KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO. : 00-91-22- 67999100 FAX NO. : 00-91-22-2589 83 57 |
| Trade Name | ----- | |
| Synonyms | Cymoxanil | Chemical classification: Aliphatic Nitrogen |
| IUPAC | Cymoxanil : 1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea. | |
| CAS Number | CYMOXANIL 57966-95-7 | |

SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS

| COMPONENT NAME | CAS REGISTRY NO | CONCENTRATION |
|------------------|-----------------|---------------|
| Cymoxanil | 57966-95-7 | 50% |
| Inerts | ----- | Q. S. |

SECTION 3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Physical state : Powder
 Colour : Off white
 Odor : Sweet

Harmful or fatal if swallowed - can enter lungs and cause damage

IMMEDIATE HEALTH EFFECTS

| | |
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| Eye contact | This material is irritate to eyes. |
| Skin contact | May cause sensitization by skin contact. |
| Ingestion | Harmful if swallowed. |
| Inhalation | Breathing high concentrations may be harmful. Inhalation can cause irritation of nose and throat |

DELAYED OR OTHER HEALTH EFFECTS

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| Target organs | ----- |
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An "X" in the box adjacent to the hazard title indicates OSHA Hazard classification. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication standard (29 CFR 1910.1200)

| OSHA Health Hazard Classification | | OSHA Physical Hazard Classification | |
|---------------------------------------|---|---|-------------------------------------|
| Toxic <input type="checkbox"/> | Highly toxic <input type="checkbox"/> | Flammable <input type="checkbox"/> | Oxidizer <input type="checkbox"/> |
| Irritant <input type="checkbox"/> | Sensitizer <input type="checkbox"/> | Combustible <input type="checkbox"/> | Corrosive <input type="checkbox"/> |
| Carcinogenic <input type="checkbox"/> | Explosive <input type="checkbox"/> | Organic Peroxide <input type="checkbox"/> | Pyrophoric <input type="checkbox"/> |
| Pyrophoric <input type="checkbox"/> | Water Reactive <input type="checkbox"/> | | |

SECTION 4 : FIRST AID MEASURES

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| Eye | Flush eyes for a several minutes under the running water. |
| Skin | Immediately wash skin with water and soap and rinse thoroughly. |
| Ingestion | Call a physician or the poison control center immediately. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. |
| Inhalation | Immediately move victim to fresh air. If victim is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention if breathing difficulties continue. |
| Notes to physician | Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48hours after the accident. |

SECTION 5 : FIRE FIGHTING MEASURES

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| NFPA Flammability Classification | ----- |
| NFPA RATINGS | Health: -- Flammability :-- Reactivity: -- |
| OSHA classification | No data |
| Flash point | Not applicable |
| Flammability (Explosive limits) | Not applicable |
| Auto ignition Temperature | No data |
| Hazardous Combustion products | No data |
| Extinguishing Media | Small fire : CO ₂ , powder or water spray Large fire : with water spray or alcohol resistant foam. |
| Protection of Fire Fighters | Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective clothing. |

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| Special Properties | No data |
| SECTION 6 : ACCIDENTAL RELEASE MEASURES | |
| Protective Measures | Eliminate all sources of ignition in the vicinity of the spill. If this material is released into the work area, evacuate the area immediately. |
| Spill Management | Wear a NIOSH/MSHA approved dust respirator and all appropriate protective equipment. Do not allow product to reach sewage system or any water course. Do not touch or walk through spilled material. Prevent spilled material from entering waterways, sewers, basements or confined areas. Clean up spill as soon as possible. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. |

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| SECTION 7 : HANDLING AND STORAGE | |
| Handling | Keep containers closed and do not handle or store near heat, sparks or any other potential ignition sources. Use only with adequate ventilation and personal protection. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do not reuse empty bag. When performing repairs and maintenance on contaminated equipment, Keep unnecessary persons away from area. Use gloves and protective clothing if direct contact is anticipated. Provide adequate ventilation. Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling. |
| Storage | Store and transport in accordance with all applicable laws. Keep containers tightly closed and store in a cool, dry, well-ventilated place , plainly labeled and out of closed vehicles. Keep away from all ignition sources. All electrical equipment in areas where this material is stored or handled should be installed in accordance with applicable regulatory requirements and the national electrical code. |

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| SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION | |
| Engineering controls | Provide exhaust ventilation. An emergency eye wash station and safety shower should be located near the workstation. |
| Personal Protective Equipment | <p>Eye Protection: Wear eye protection such as safety glasses, chemical goggles etc. Contact lenses should not be worn when working with this chemical.</p> <p>Hand protection: Avoid skin contact .Use gloves. Wash hands with plenty of mild soap and water before eating, drinking, use of toilet facilities or leaving work.</p> <p>Body protection: Avoid skin contact. Wear long-sleeved fire-retardant garments. Additional chemical-resistant protective gear may be required. This may include an apron, boots and additional facial protection.</p> <p>Respiratory Protection: Dust / mist filtering respirator or a NIOSH approved respirator.</p> <p>Work practices: users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product.</p> |

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| | Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing. Deluge safety shower and eye wash station should be located in work area | | |
| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES | | | |
| Physical state | Solid powder | Colour | Off white |
| Odor | Sweet | pH | NA |
| Density | Not determined | Solubility in water | Forms suspension in water |
| Vapor pressure | Not applicable | Vapor density | Not applicable |
| Viscosity | Not applicable | Boiling point | Not determined |
| Melting / Freezing point | Not determined | Self Igniting | Product is not self igniting |

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| SECTION 10: STABILITY AND REACTIVITY | |
| Chemical stability | This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Conditions to Avoid | Keep away from heat, flame and other potential ignition sources. Keep away from strong oxidizing conditions and agents. |
| Material Incompatibility | No further relevant information available. |
| Hazardous Decomposition Products | No dangerous decomposition products known. |
| Hazardous Polymerization | Will not occur |

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| SECTION 11: TOXICOLOGICAL INFORMATION | |
| Acute Oral toxicity | LD 50 for cymoxanil technical is 1196 mg /kg (rats) |
| Acute Dermal toxicity | No data |
| Acute Inhalation toxicity | No data |
| Eye irritation: This material can cause primary irritation to eyes. Skin irritation: This material can cause primary irritation to the skin. | |

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| SECTION 12: ECOLOGICAL INFORMATION | |
| Ecotoxicity | Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms |
| Environmental fate | No data |

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14 : TRANSPORT INFORMATION

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| | Environmentally hazardous substance solid- UN-Number 3077 |
| DOT Shipping Name | DOT Tech. name: Cymoxanil |
| DOT Hazard class | 9 Miscellaneous dangerous substances and articles. |
| DOT identification number | 9 |
| DOT packing Group | III |
| DOT additional information | No further relevant information available. |

SECTION 15: REGULATORY INFORMATION

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| Chemical safety assessment: | A Chemical Safety Assessment has not been carried out. |
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SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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| NFPA RATINGS | Health : -- | Flammability : -- | Reactivity :-- |
| HMIS RATINGS | Health : -- | Flammability : -- | Reactivity : -- |
| | 0 = Least 1= slight 2= Moderate 3= High 4=Extreme | | |
| Harmful if swallowed. may cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects. | | | |

ABBREVIATIONS

| | |
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| STEL | Short term exposure limit |
| ACGIH | American conference of Government Industrial Hygienists |
| NIOSH | National institute of safety and health |
| SARA | Super fund Amendments and Reauthorization Act |
| TWA | Time weighted average |
| OSHA | Occupational safety and health |
| NFPA | National Fire protection agency |
| HMIS | Hazardous Materials information system |
| RCRA | Resource conservation Recovery act |
| TSCA | Toxic substance Control Act |
| WHMIS | Work place Hazardous Materials information system |
| IRAC | International Agency for Research on Cancer |

MANUFACTURE'S / SUPPLIER'S DATA

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|--|---|--|--|---------------------|
| Name of Firm : INDOFIL INDUSTRIES LIMITED | | | | |
| Mailing Address : Kolshet, Off Swami Vivekanand Road, Azad nagar, Sandoz Baug P.O. Thane – 400 607 | Gat No. 194, Village – Gahunje, Tal. Maval, Dist. Pune. | | S-26 (T), MIDC, Bhosari, Pune – 411 026. | |
| Telephone 67999100 | Telex | | Phone No. 22767 5084 | Phone No. 227122302 |
| Fax 589 8357 | Telegraphic Code | | Fax 22767 5083 | Fax 22712 9242 |
| Local Bodies Involved | Collector of Thane | | | |

DISCLAIMER

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