

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



SAFETY DATA SHEET

Mancozeb 75% WP

1. Product Identification

- **Product Name:** Mancozeb 75% WP
- **Chemical Name:** Manganese ethylene-bis-dithiocarbamate (polymeric) complex with zinc salt
- **CAS Number:** 8018-01-7
- **Molecular Formula:** $(C_4H_6MnN_2S_4)_x(Zn)_y$
- **Molecular Weight:** Variable (polymeric compound)
- **Synonyms:** Dithane, Manzeb, Dithiocarbamate Fungicide
- **Formulation Type:** Wettable Powder (WP)
- **Intended Use:** Broad-spectrum contact fungicide used for controlling fungal diseases in various crops
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **Classification (GHS):**
 - Acute Toxicity (Oral): Category 4
 - Skin Sensitization: Category 1
 - Eye Irritation: Category 2A
 - Carcinogenicity: Category 2 (Suspected human carcinogen)
 - Hazardous to the Aquatic Environment - Acute: Category 1
 - Hazardous to the Aquatic Environment - Chronic: Category 1
- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed

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- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H351: Suspected of causing cancer
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long-lasting effects
- **Precautionary Statements:**
 - P264: Wash hands thoroughly after handling
 - P270: Do not eat, drink, or smoke while using this product
 - P273: Avoid release into the environment
 - P280: Wear protective gloves, clothing, and eye protection
 - P301+P312: IF SWALLOWED: Call a poison center or doctor if you feel unwell

3. Composition / Information on Ingredients

Component	CAS Number	Concentration
Mancozeb	8018-01-7	75%
Inert Ingredients -		25%

4. First Aid Measures

- **Inhalation:** Move the person to fresh air. If breathing difficulty occurs, seek immediate medical attention.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
 - **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do.
 - **Ingestion:** Rinse mouth thoroughly. Do not induce vomiting. Seek immediate medical attention.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or carbon dioxide (CO₂)
 - **Specific Hazards:** Emits toxic fumes of carbon monoxide, sulfur oxides, nitrogen oxides, and hydrogen sulfide upon combustion
 - **Protective Equipment:** Use self-contained breathing apparatus and full protective clothing
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6. Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment to avoid skin and eye contact
 - **Environmental Precautions:** Prevent entry into drains, soil, and waterways; highly toxic to aquatic organisms
 - **Cleanup Methods:** Contain spillage using inert absorbent material and place in a suitable container for disposal
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7. Handling and Storage

- **Handling:** Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wear appropriate personal protective equipment (PPE).
 - **Storage:** Store in a cool, dry, and well-ventilated area away from heat, food, and animal feed. Keep containers tightly closed.
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide proper ventilation and local exhaust systems where necessary
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use an approved respirator if exposure limits are exceeded
 - **Skin Protection:** Wear chemical-resistant gloves and protective clothing
 - **Eye Protection:** Safety goggles or face shield
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9. Physical and Chemical Properties

- **Appearance:** Greyish-yellow powder
 - **Odor:** Mild sulfur odor
 - **pH:** 6.0–7.0 (1% suspension in water)
 - **Density:** ~0.4 g/cm³
 - **Solubility:** Insoluble in water; forms a suspension
 - **Melting Point:** Decomposes before melting
 - **Vapor Pressure:** Negligible
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage and handling conditions
 - **Conditions to Avoid:** Heat, moisture, and direct sunlight
 - **Incompatible Materials:** Strong oxidizing agents and acids
 - **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen sulfide
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11. Toxicological Information

- **Acute Toxicity:**
 - Oral LD50 (Rat): 4,500 mg/kg
 - Dermal LD50 (Rabbit): > 10,000 mg/kg
 - Inhalation LC50 (Rat): > 5.14 mg/L (4 hours)
 - **Skin Irritation:** May cause mild irritation
 - **Eye Irritation:** Causes moderate irritation
 - **Sensitization:** May cause skin sensitization
 - **Chronic Effects:** Suspected carcinogen; prolonged exposure may cause thyroid and liver damage
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12. Ecological Information

- **Aquatic Toxicity:**
 - Fish (Rainbow trout): LC50 = 0.2 mg/L (96 hours)
 - Daphnia magna: EC50 = 0.5 mg/L (48 hours)
 - Algae: EC50 = 0.05 mg/L (72 hours)
 - **Persistence and Degradability:** Not readily biodegradable
 - **Bioaccumulation Potential:** Low
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13. Disposal Considerations

- Dispose of according to local, regional, and national regulations
 - Prevent contamination of water bodies and soil
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14. Transport Information

- **UN Number:** UN 3077
 - **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (Mancozeb)
 - **Hazard Class:** 9 (Miscellaneous Dangerous Substances)
 - **Packing Group:** III
 - **Marine Pollutant:** Yes
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15. Regulatory Information

- **TSCA (USA):** Listed
 - **REACH (EU):** Registered
 - **FIFRA (USA):** Registered pesticide product
 - **IARC Classification:** Group 3 (Not classifiable as to its carcinogenicity to humans)
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16. Other Information

- **Disclaimer:** This information is accurate to the best of our knowledge but does not guarantee specific properties. The user is responsible for safe handling and compliance with all applicable regulations.