

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

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SAFETY DATA SHEET

Mancozeb Technical

1. Identification

- **Product Name:** Mancozeb Technical
- **CAS Number:** 8818-01-7
- **Intended Use:** Contact Fungicide
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Composition / Information on Ingredients

- **Active Ingredient:** Mancozeb a.i. (85.00% min.)
- **Associated Impurities:** (15.00% max.)

3. Hazards Identification

- **Health Hazards:**
 - Harmful if absorbed through the skin or inhaled.
 - Causes **moderate eye and skin irritation.**
 - Avoid breathing vapors or spray mist.
 - Keep out of reach of children.
 - **Symptoms of Overexposure:**
 - **Headaches, nausea, vomiting, cramps, weakness, blurred vision, tightness in chest, labored breathing, sweating, muscle spasms, coma.**
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4. First Aid Measures

- **Inhalation:** Move to fresh air. If not breathing, provide artificial respiration. Seek immediate medical attention.
 - **Ingestion:** Rinse mouth with water. **Do not induce vomiting.** Seek immediate medical help.
 - **Eye Contact:** Rinse with plenty of water for **at least 20 minutes.** Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical help if symptoms develop.
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5. Accidental Release Measures

- **Precautions:**
 - Avoid direct contact with the spilled material.
 - Prevent the product from entering drains or water sources.
 - **Cleanup Procedures:**
 - Absorb spill with **sand, soil, or clay.**
 - Store in **properly labeled, sealed drums** for disposal.
 - If contamination occurs, inform local water authorities.
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6. Fire-Fighting Measures

- **Flash Point:** 137.8°C (Tag Open Cup)
- **Flammability Limits:** Can ignite under extreme heat.
- **Suitable Extinguishing Media:**
 - CO₂, dry chemical, foam, water spray
- **Hazardous Combustion Products:**
 - Hydrogen sulfide, carbon disulfide, sulfur oxides, nitrogen oxides

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- **Protective Equipment:** Firefighters must wear **self-contained breathing apparatus (SCBA)** and full protective gear.
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7. Handling and Storage

- **Handling Precautions:**
 - Use **impervious clothing, gloves, and protective goggles.**
 - Avoid **skin and eye contact.**
 - **Storage Conditions:**
 - Store in **original, tightly closed containers.**
 - Keep in **cool, dry, well-ventilated areas.**
 - Keep away from food, children, and animal feed.
 - **Store away from ignition sources and strong oxidizers.**
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8. Exposure Controls / Personal Protection

- **Technical Protective Measures:** None required under normal use.
 - **Respiratory Protection:** Use a **suitable mask** to prevent inhalation.
 - **Hand Protection:** Wear **impervious gloves.**
 - **Eye Protection:** Wear **dust-resistant goggles.**
 - **Skin Protection:** Wear **impervious clothing and closed footwear.**
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9. Physical and Chemical Properties

- **Appearance:** Greyish-yellow powder
- **Odor:** Sulfur odor
- **Melting Point:** 192-204°C (decomposes)
- **Boiling Point:** Not applicable

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- **Vapor Pressure:** Negligible at 20°C
 - **Density:** 1.92 g/cm³
 - **Flash Point:** 137.8°C
 - **Solubility in Water:** 6.2 ppm at 25°C (pH 7.5)
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10. Stability and Reactivity

- **Stability:** Stable for 2 years in unopened containers.
 - **Conditions to Avoid:** Moisture, excessive heat, open flame.
 - **Incompatible Materials:** Strong oxidizers, acids.
 - **Hazardous Decomposition Products:**
 - Sulfur oxides, hydrogen sulfide, nitrogen oxides, carbon oxides
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11. Toxicological Information

- **Acute Toxicity:**
 - **Oral LD50 (Rat):** >5000 mg/kg (low toxicity)
 - **Dermal LD50 (Rabbit):** >5000 mg/kg (low toxicity)
 - **Inhalation LC50 (Rat, 4h):** >5.14 mg/L
 - **Eye Irritation:** Moderate irritant
 - **Skin Irritation:** Moderate irritant
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12. Ecotoxicological Information

- **Bird Toxicity:**
 - **Mallard Duck LC50 (10-day diet):** 6400 mg/kg
 - **Japanese Quail LC50 (10-day diet):** 3200 mg/kg

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- **Fish Toxicity:**
 - **Rainbow Trout LC50 (48h): 2.2 mg/L**
 - **Goldfish LC50 (48h): 9.0 mg/L**
 - **Bee Toxicity:**
 - **LC50: 0.193 mg/bee**
 - **Environmental Fate:**
 - Mancozeb is rapidly absorbed and excreted in mammals within **96 hours**.
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13. Disposal Considerations

- **Waste Treatment:**
 - **Incineration in specialized facilities**
 - Ensure compliance with **local hazardous waste regulations**
 - **Container Disposal:**
 - Store empty packaging in a **covered, ventilated area**.
 - **Do not reuse packaging.**
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14. Transport Information

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

- **US Federal Regulations:**
 - **TSCA:** Not listed
 - **CERCLA RQ:** Not listed
 - **SARA 313:** Not listed
 - **Clean Water Act:** Not listed
 - **Clean Air Act:** Not a hazardous air pollutant
 - **OSHA Hazardous Substance:** Not listed
- **California Proposition 65:** Not listed
- **EU Classification:**
 - **Hazard Symbols:** T+ (Very toxic)
 - **Risk Phrases:**
 - **R26:** Very toxic by inhalation
 - **R36/37/38:** Irritating to eyes, respiratory system, and skin
 - **Safety Phrases:**
 - **S26:** Rinse immediately with plenty of water and seek medical advice
 - **S28A:** Wash immediately with water after skin contact

16. Other Information

- **Disclaimer:**
 - Information is based on current knowledge but **no warranties** are provided.
 - Users must ensure **safe handling, storage, and disposal**.
 - If used in formulations, **it is the recipient's responsibility** to ensure proper hazard communication.