

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

Carbendazim 12% + Mancozeb 63% WP

1. Identification of the Substance

- **Product Name:** Carbendazim 12% + Mancozeb 63% WP
- **Chemical Name:**
 - **Carbendazim:** Methyl benzimidazol-2-ylcarbamate
 - **Mancozeb:** Manganese ethylene (dithiocarbamate) (polymeric) complex with zinc salt
- **Molecular Formula:**
 - **Carbendazim:** $C_9H_9N_3O_2$
 - **Mancozeb:** $[C_4H_6MnN_2S_4] \times Zn$
- **Use:** Fungicide
- **Manufacturer/Supplier:** COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

2. Composition / Ingredients

Chemical Name	CAS No.	Content (% w/w)
Carbendazim (98% AI)	10605-21-7	12.25%
Mancozeb (85% AI)	8018-01-7	74.12%
Other Ingredients	--	13.63%

3. Hazard Identification

- **Eye Contact:** May cause slight irritation
- **Skin Contact:** Prolonged exposure may cause irritation
- **Inhalation:** Irritation to the respiratory tract and eyes

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- **Ingestion:** May cause liver abnormalities with prolonged exposure
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4. First Aid Measures

- **Eye Contact:** Rinse with **fresh water for 15 minutes**, seek medical attention if irritation persists
 - **Skin Contact:** Wash with **soap and water**, remove contaminated clothing
 - **Ingestion:** **Do not induce vomiting**, give **water to drink**, seek immediate medical attention
 - **Inhalation:** Move to fresh air, keep patient warm, seek medical help
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5. Fire Fighting Measures

- **Flammability:** Combustible but **not highly flammable**
 - **Hazardous Combustion Products:** Oxides of **carbon, nitrogen, sulfur**, hydrogen sulfides
 - **Extinguishing Media:**
 - **Water fog/spray, foam, carbon dioxide, dry chemical powder**
 - **Firefighting Equipment:**
 - **Self-contained breathing apparatus (MSHA/NIOSH)**
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6. Accidental Release Measures

- **Spill Management:**
 - Vacuum or sweep up spills **immediately**
 - Use **soda ash or lime** for neutralization
 - **Flush area with water**
 - **Environmental Precautions:**
 - Prevent runoff into **soil, drainage, water bodies**
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7. Handling & Storage

- **Handling Precautions:**
 - Use in **well-ventilated areas**
 - Avoid contact with **skin, eyes, inhalation**
 - **Storage Conditions:**
 - Store in **original container**
 - Keep **away from food, animal feed, water**
 - Protect from **heat, moisture, sunlight**
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8. Exposure Controls / Personal Protection

- **Engineering Controls:**
 - **Local exhaust ventilation** to maintain air contaminants within limits
 - **Eyewash stations and safety showers** should be available
 - **Personal Protective Equipment (PPE):**
 - **Eye Protection:** Safety glasses
 - **Hand Protection:** Waterproof gloves
 - **Body Protection:**
 - Long-sleeved **shirt and pants**
 - Shoes plus socks
 - **Chemical-resistant headgear**
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9. Physical & Chemical Properties

Property	Value
Form	Free-flowing powder

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Property	Value
Color	Yellow-Green
Odor	Weak, uncharacteristic
Water Solubility	Practically insoluble
Suspensibility (%)	60% (Min.)
Wettability	120 seconds (Max.)

10. Stability & Reactivity

- **Stability:** Stable under **normal conditions**
- **Conditions to Avoid:**
 - **Moisture, heat, open flames**
- **Incompatible Materials:**
 - **Oxidizing agents, acids, alcohols**
- **Hazardous Decomposition Products:**
 - **Carbon disulfide, hydrogen sulfide**

11. Toxicological Information

Test	Result
Acute Oral LD ₅₀ (Rats)	>5000 mg/kg
Acute Dermal LD ₅₀ (Rabbits)	>5000 mg/kg
Acute Inhalation LC ₅₀ (Rats)	>5.0 mg/L air
Eye Irritation (Rabbit)	Non-irritant
Skin Irritation (Rabbit)	Slight irritant

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12. Ecological Information

Test	Result
Fish Toxicity (LC ₅₀ , 96h, Tilapia mossambica)	4.369 mg/L
Bird Toxicity (LD ₅₀ , Chicken)	>5000 mg/kg
Bird Toxicity (LD ₅₀ , Japanese Quail)	>5000 mg/kg
Bee Toxicity (LC ₅₀)	75.66 ppm

- **Environmental Impact:** Toxic to aquatic organisms

13. Disposal Considerations

- **Pesticide Disposal:**
 - Follow federal, state, and local regulations
- **Container Disposal:**
 - Empty completely before disposal
 - Do not reuse containers

14. Transport Information

- **Classification:** Not regulated for Road/Rail Transport
- **Packaging Class & Group:** 6.1 and III

15. Regulatory Information

- **EU Classification:**
 - Hazard Symbol: Xi (Harmful, Irritant)
 - Risk Phrases (R-phrases):

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- **R22:** Harmful if swallowed
- **R36/38:** Irritating to eyes and skin
- **R37:** Irritating to respiratory system
- **R43:** May cause skin sensitization
- **Safety Phrases (S-phrases):**
 - **S2:** Keep out of reach of children
 - **S8:** Keep container dry
 - **S24/25:** Avoid skin/eye contact
 - **S36/37:** Wear suitable protective clothing and gloves

16. Other Information

- **Disclaimer:**
 - The manufacturer **does not provide warranties** regarding the accuracy or fitness for any specific purpose.
 - The user is **responsible for determining suitability** for their particular use.
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