

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 50% WP

1. Identification of the Substance

- **Common Name:** Carbendazim 50% WP
- **Chemical Name:** Methyl 1H-benzimidazol-2-ylcarbamate
- **Intended Use:** Fungicide
- **Pesticide Family:** Benzimidazole fungicides
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited
- **Empirical Formula:** $C_9H_9N_3O_2$
- **CAS Number:** 10605-21-7
- **Molecular Weight:** 191.2

2. Physical & Chemical Properties

- **Physical State:** Powder
- **Color:** Colorless
- **Odor:** Specific odor
- **Acidity (as H_2SO_4):** 0.05% max
- **Solubility:**
 - Water (pH 7, 20°C): 8 mg/L
 - Dichloromethane: 68 mg/L
 - Chloroform: 100 mg/L
 - Acetone: 300 mg/L
 - Dimethylformamide: 5 g/L
 - Ethanol: 300 g/L
- **Stability:** Stable for 2 years under normal conditions

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- **Boiling Point:** N/A
- **Melting Point:** >98°C
- **Flash Point:** N/A
- **Flammability:** Not flammable
- **Oxidizing Properties:** N/A
- **Bulk Density:** 0.64 g/cm³

3. Composition / Ingredients

Component	% w/w	CAS No.
Carbendazim Technical (Min. 98%)	51.00%	79983-71-4
Surface Active Agents (alkyl benzene sulfonate)	2.00%	68412-54-4
Dispersing Agents (salt of polyalkyl naphthyl sulfonate)	2.00%	26264-06-2
Sticking Agents (Glue / CMC)	2.00%	9000-11-7
Carrier (China Clay)	43.00%	1332-58-7
Total	100.00%	

4. Hazard Identification

- **Toxicity Class:** Non-hazardous as per NOHSC
 - **Symptoms of Poisoning:** Irritant
 - **Skin Contact:** Minimally toxic, non-irritating
 - **Eye Contact:** Non-irritating
 - **Inhalation:** Not a likely route of exposure but may cause irritation
 - **Ingestion:** No expected injury from normal handling
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5. First Aid Measures

- **Skin Contact:** Wash with water and soap, remove contaminated clothing.
 - **Eye Contact:** Flush eyes with lukewarm water for 20 minutes, seek medical attention if needed.
 - **Inhalation:** Move to fresh air, keep victim warm, and seek medical advice if necessary.
 - **Ingestion:** Rinse mouth with water, if vomiting occurs, give more water to dilute.
 - **Antidote:** No specific antidote, treat symptomatically.
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6. Fire & Explosion Data

- **Flash Point:** Non-combustible
 - **Extinguishing Media:** Carbon dioxide, dry chemical, foam, water fog
 - **Special Hazards:** May emit **oxides of carbon, nitrogen, and hydrogen chloride** under fire conditions
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7. Accidental Release Measures

- **Personal Precautions:** Avoid contact with skin and eyes, do not inhale dust.
 - **Environmental Precautions:** Prevent entry into drains or watercourses.
 - **Cleanup Methods:** Sweep up spills with damp earth, sand, or absorbents. Dispose of contaminated materials properly.
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8. Handling & Storage

- **Handling Precautions:**
 - Keep in original **tightly closed container**.
 - Avoid **eye and skin contact**.
 - Use with **adequate ventilation**.
- **Storage Conditions:**

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- Store in **well-ventilated, shaded areas**, away from heat and sparks.
- Not to be stored near **foodstuffs or water supplies**.

9. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established
- **Personal Protective Equipment (PPE):**
 - **Respirator:** Full-face respirator for dust/mist protection.
 - **Clothing:** Chemical-resistant protective clothing, boots.
 - **Gloves:** Chemical-resistant gloves.
 - **Eye Protection:** Safety goggles.

10. Stability & Reactivity

- **Stability:** Stable under normal conditions, decomposed by heat/moisture.
- **Incompatibility:** Strong oxidizers and acids.
- **Hazardous Decomposition:** May emit **carbon oxides, nitrogen oxides, and hydrogen chloride**.

11. Toxicological Information

- **LD₅₀ (Acute Oral, Rats):** >15,000 mg/kg
 - **LD₅₀ (Acute Dermal, Rats):** >2,000 mg/kg
 - **LC₅₀ (Acute Inhalation, Rats, 4h):** >5.5 mg/L
 - **Skin Irritation:** Non-irritating
 - **Eye Irritation:** Non-irritating
 - **Mutagenicity:** Not mutagenic based on animal studies
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12. Ecological Information

- **Toxicity to Bees: Non-toxic**
 - **Toxicity to Birds: Non-toxic**
 - **Toxicity to Aquatic Life:**
 - **Fish (96h LC₅₀, Trout): 0.36 mg/L**
 - **Fish (96h LC₅₀, Sheepshead Minnow): 5.4 mg/L**
 - **Daphnia Magna (48h LC₅₀): 2.9 mg/L**
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13. Transport Information

- **UN Number:** Not applicable
 - **IMDG Class:** Not applicable
 - **Packing Group:** Not applicable
 - **Proper Shipping Name:** Carbendazim (non-hazardous good)
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14. Regulatory Information

- **Hazard Symbol:** Non-Hazardous as per NOHSC
 - **Risk Phrases:** Not applicable
 - **Safety Phrases:** Not specified
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15. Disposal Considerations

- **Pesticide Disposal:**
 - **Burn at >1000°C in an incinerator or dispose of in an approved landfill.**
- **Container Disposal:**
 - **Triple rinse** non-combustible containers.
 - **Recycle** or dispose of at a **scrap metal facility**.

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16. Other Information

- **Key Features:**
 - **Wettable powder form**
 - **Effective against a wide range of fungal infections in crops**
 - **Long shelf life under normal storage conditions**