



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet

### Carbendazim 12 % + Mancozeb 63% WP

#### 1. IDENTIFICATION OF COMPANY & PRODUCT

**Product Name** : Carbendazim 12 % + Mancozeb 63% WP  
**Chemical Name** : Carbendazim: Methyl benzimidazol-2-ylcarbamate  
Mancozeb: manganese ethylene is (dithiocarbamate) (polymeric) complex with zinc salt  
**Uses** : Fungicides  
**Molecular Formula** : Carbendazim: C<sub>9</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>  
Mancozeb: [C<sub>4</sub>H<sub>6</sub>MnN<sub>2</sub>S<sub>4</sub>] x Zn  
**Manufacturer** : SHREEJI PESTICIDES PVT. LTD.  
**Address** : Plot No. 69/P, Village - Manjusar, Tal. Savli, Dist - Vadodara - 391775  
Gujarat, India  
**Tele Fax Number** : 91 2667 264701

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Percent Or Content(W/W)
Carbendazim A.I. (based on 98% A.I.)	10605-21-7	12.25 %
Mancozeb A.I. (based on 85% A.I.)	8018-01-7	74.12 %
Other ingredients	-	13.63 %

#### 3. HEALTH HAZARDS IDENTIFICATION

**Hazards identification:** Can cause slight to moderate skin irritation. Avoid breathing dust or spray  
**Eyes** : Contact will cause very slight eye irritation  
**Skin** : Prolonged or repeated skin contact may cause irritation.  
**Ingestion** : This material may cause liver abnormalities on prolonged or excess.  
**Inhalation** : Mist or dust concentration may be irritating to respiratory tract and eyes.

#### 4. FIRST AID MEASURES

**Eyes** : Wash eyes with fresh water for 15 minutes. If irritation continues, see a doctor.  
**Skin** : Remove contaminated clothing and wash skin with plenty of soap and water. Call doctor if irritation persists.



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**Ingestion** : Do not induce vomiting. Give water to drink .Do not give anything by mouth if patient is unconscious. Seek medical attention.

**Inhalation** : Remove person from exposure area to fresh air, Keep patient at most comfort level can keep warm. Get medical attention.

**Note for physician** : Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

**Specific hazards** : Product is combustible but not considered highly flammable.

**Fire and explosion** : Oxides of carbon, nitrogen and sulfur, hydrogen sulfides and carbon sulfides.

**Hazard Extinguishing** : Use foam, Water fog/water spray, dry agents (Carbon dioxide, dry chemical powder).

**Instruction Firefighting Equipment** : Wear self-contained breathing apparatus pressure –demand, MSHA/NIOSH and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**In case of spill or leak:** Clean up spills immediately, observing precautions. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Vacuum or sweep up material and place in properly labeled disposal container. Large spills may be neutralized with dilute solutions of soda ash or lime. After removal, flush contaminated area thoroughly with water. Do not allow any material to run off in soil, drainage systems or bodies of water. Notify and consult with proper regulatory authorities.

#### 7. HANDLING AND STORAGE

**Handling** : Use only in well-ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**Storage** : Store in a cool dry place in original container and protect from sunlight. Keep away from food, animal feed and drinking water.



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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering control** : Local exhaust ventilation may be necessary to control any air contaminants to within their TLV's during the use of this product. Facilities storing or utilizing this material should be equipped with eyewash facility and safety shower.
- Eye protection** : Safety glasses
- Hand Protection** : Use waterproof gloves.
- Body protection** : Long sleeved shirt and long pants, shoes plus socks, chemical resistant headgear for overhead exposures.
- User safety Recommendations** : Wash hands before eating, drinking, and 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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change in to clean clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : Free flowing powder
- Color** : yellow - Green
- Odour** : weak uncharacteristic odor
- Water solubility** : Practically insoluble
- Suspensibility, %**
- By mass** : 60% Min.
- Wettability** : 120 seconds Max.

#### 10. STABILITY AND REACTIVITY

- Chemical Stability** : Usually Stable
- Conditions to avoid** : Protect from moisture, heat, open flames or other source of ignition.
- Incompatibility with Other chemicals** : Oxidizing agents, acids, polar solvents such as alcohol.
- Hazardous Decomposition Products** : Carbon disulfide, hydrogen sulfide.
- Hazardous Polymerization** : Product may undergo polymerization.



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#### 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity** : LD50 (rats) >5000 mg/kg  
**Acute Dermal Toxicity**: LD50 (Rabbits) >5000 mg/kg b.w  
**Acute Inhalation** : LC50 (rats) : >5.0 mg/l air  
**Eye Irritation** : Rabbit: Non-irritant to eye  
**Skin Irritant** : Rabbit: Slightly irritant to skin

#### 12. ECOLOGICAL INFORMATION

**Toxicity to fish** : Acute LC50 for *Tilapia mossambica* is 4.369 mg/L.  
**Toxicity to birds** : Acute LD50 for chicken >5000 mg/Kg.  
Acute LD50 for *Japanese quail* >5000 mg/Kg  
**Toxic to bees** : LC50: 75.66 ppm

#### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**: Dispose of in accordance with applicable Federal, State, local laws and regulations.

**Container disposal Method** : Empty the container with equipment. Do not re-use the container. Dispose of empty containers in a sanitary landfill or incineration so as to avoid environmental or water pollution.

#### 14. TRANSPORT INFORMATION

Transportation of dangerous goods classification by Road/Rail – Not regulated  
Packaging Class and Group – 6.1 and III

#### 15. REGULATORY INFORMATION

**EU- Classification**  
**Hazard Symbol** : Xi : Harmful, irritant  
**Special Risks**



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(R-Phrases)	: R 22	: Harmful if swallowed
	: R 36/38	: Irritating to eyes and skin
	: R 37	: Irritating to respiratory system
	: R 43	: May cause sensitization by skin contact

#### Safety Advice

(S- Phrases)	: S 2	: Keep out of reach of children
	: S 8	: Keep container dry
	: S 24/25	: Avoid contact with skin/eyes
	: S 36/37	: Wear suitable protective clothing and gloves

## 16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.