



江苏丰山集团有限公司

JIANGSU FENGSAN GROUP CO., LTD.

MATERIAL SAFETY DATA SHEET

1. Chemical Product Identification

Manufactory: Jiangsu Fengshan Group Co., Ltd.

Address: Caomiao Town, Dafeng City, Jiangsu Province, China.

Tel: +86-515-83374837

Fax: +86-515-83372405

Product name: Mancozeb 80%WP

2 Composition / Information on Ingredients

Common name: Mancozeb

Chemical Name: manganese ethylenebis (dithiocarbamate) (polymeric) complex with zinc salt

CAS No.: 1) 8018-01-7

Chemical Formula: $[C_4H_6MnN_2S_4]_xZn_y$

Molecular weight: 271.2 (based on composition)

3. Hazards Identification

Toxicity class: WHO III, EPA IV. A low toxicity fungicide.

Likely routes of exposure: Skin and eye contact, ingestion and inhalation.

4. First Aid Measures

Inhalation: Move the victim to fresh air or remove source of contamination. Monitor for respiratory distress. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately if necessary.

Skin contact: Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice. Persons who become sensitized may require specialized medical management with anti-inflammatory agents or cortisone containing emulsions.

Eye contact: Immediately flush the contaminated eyes with gently flowing lukewarm water for 15 to 20 minutes, occasionally lifting the upper and lower lids. If irritation persists, seek medical advice.

Ingestion: Seek medical advice immediately. Do not induce vomiting without medical advice. Give 2 glasses of water to drink. Never give anything by mouth to an unconscious person.



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Administration of gastric larvae or oxygen should be performed by qualified medical personnel.

5. Fire-Fighting Measures

Fire hazard and explosion hazard: Avoid heat or flame. Slight fire hazard when exposed to heat or flame. Dusts at sufficient concentrations can form explosive mixtures with air.

Unusual Hazards: Pesticides particulates can become airborne. Combustion generates toxic fumes of hydrogen sulphide, carbon disulfide, sulphur oxides, nitrogen oxides and carbon oxides.

Extinguishing agents: Extinguish fires with carbon dioxide, dry chemical or alcohol-resistant foam. Avoid water coming in contact with the product. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

6. Accidental Release Measures

Personal precautions: Do not breathe in dusts or fumes. Avoid contact with skin and eyes. For personal protection see Section 8 and see section 4 regarding First Aid Measures when exposed to material during clean-up operations.

Environmental precautions: Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill: Remove all sources of flames and sparks. For dry spills, shovel up and sweep up with damp earth or sand or other suitable absorbents, taking care not to raise a dust cloud. Place the material into a labelled, clean, dry container and cover for subsequent disposal; and store in a safe place to await proper disposal. All contaminated cleaning materials should be placed in closable receptacles. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Do not contaminate water while cleaning equipment or disposing of wastes. Keep spectators away and upwind.

7. Handling And Storage

Handling: Keep out of reach of children. Harmful if swallowed, inhaled or absorbed through the skin. Causes eye irritation. May cause allergic reaction in susceptible individuals. Avoid breathing dust and contact with skin, eyes or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage: Store in original container. Avoid elevated temperatures. See product label for handling/storage precautions relative to the end use of this product.



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8. Exposure Controls/Personal Protection

Respiratory protection: Approved respirator

Protective gloves: Rubber gloves

Eye protection: Safety goggles or face shield.

Industrial hygiene: Adequate ventilation.

9. Physical and Chemical Properties

Appearance: Fine to off-white wettable powder.

Explosive properties: Dust-air mixtures may explode when in contact with moisture

Flash point: Not applicable.

Storage stability: Stable for 2 years under normal, dry storage conditions.

Solubility in in water: Dispersible.

10. Stability and Reactivity

Stability: Considered stable in unopened original packages, under normal, dry storage conditions. Slowly decomposed by heat and moisture.

Incompatibility: Avoid contact with oxidizing agents and acids. Keep away from moisture, heat or flame. Compatible with most commonly used fungicides and insecticides, used at recommended rates. Always perform a compatibility test before using with other products.

Do not physically mix

concentrate directly with other pesticide concentrates, always dilute first.

Thermal decomposition: May yield toxic oxides of carbon, nitrogen and sulphur. Avoid temperatures above 49 OC.

Hazardous decomposition products: Hydrogen sulphide, carbon disulphide, carbon oxides, sulphur oxides and nitrogen oxides form on heating. During processing, dust may form explosive mixture in air. Decomposition by contact with water may generate vapours, which can be ignited by heat or open flame.

Hazardous polymerization: Product will not undergo polymerisation.

11. Toxicological Information

Acute oral LD50: > 5000 mg/kg in rats & mice.

Acute dermal LD50: > 5000 mg/kg in rats.

Acute inhalation LC50: > 2.843 mg/l in rats for 4 hours.

12. Ecological And Ecotoxicological Information

Birds: LD50: 10 day dietary: Japanese quail: 3200 mg/kg, Mallard duck: 6400 mg/kg

Fish: 48 h LC50: 2.2 mg/l: Rainbow Trout, 9.0 mg/l: Goldfish, 5.2 mg/l: Catfish



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Honeybees: Mancozeb: LC50: > 100 mg/bee.

13. Disposal Considerations

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility in accordance with applicable local, state and federal regulations.

14. Transport Information

UN NUMBER: 3077

ADR/IRD: Class: 9

Shipping name: Environmentally Hazardous Substance, Solid, N.O.S.
(dimethomorph, mancozeb)

IMDG/IMO: Packaging group: III

Class: 9

Shipping name: Environmentally Hazardous Substance, Solid, N.O.S.
(dimethomorph, mancozeb)

MARINE POLLUTANT

ICAO/IATA: Class: 9

Packaging group: III

Shipping name: Environmentally Hazardous Substance, Solid, N.O.S.
(dimethomorph, mancozeb)

15. Regulatory Information

Not applicable

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.