



is not genotoxic in animals or in cell cultures. Mancozeb has not been tested for heritable gene mutation.

**Human Health Effects of Overexposure:**

Skin contact may initially include: skin irritation with discomfort or rash. The compound has been infrequently associated with skin sensitization in humans. Significant skin permeation and systemic toxicity after contact appears unlikely.

Eye contact may initially include: eye irritation with discomfort, tearing, or blurring of vision.

Based on animal studies, long-term exposure to high levels of mancozeb may cause abnormal thyroid function.

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing diseases of the thyroid may have increased susceptibility to the toxicity of excessive exposures.

**Toxicity Information:**

**Oral LD<sub>50</sub>:** >5,000 mg/kg body weight

**Dermal LD<sub>50</sub>:** >5,000 mg/kg (rabbits)

**Inhalation LC<sub>50</sub>:** (rat): ND

**Eye Irritation:** Mild to severe.

**Skin Irritation:** Not a primary irritant.

**Positive Teratogen or Mutagen Carcinogen(NTP):** No

**Potential Carcinogen (IARC or OSHA):** No

**VI. REACTIVITY**

**Stability:**  Stable  Unstable

**Conditions to Avoid:** Keep away from fire or sparks. Do not allow to become wet during storage. Elevated temperature or free water promotes decomposition which may cause spontaneous combustion.

**Incompatibility:** Incompatible with acids.

**Hazardous Decomposition Products:** Hydrogen sulfide, carbon disulfide, oxides of sulfur, nitrogen and carbon.

**Hazardous Polymerization:**  Will not occur  Will occur

**VII. SPILL, LEAK, AND DISPOSAL PROCEDURES**

**If material is spilled:** Sweep, vacuum or shovel material into a container for disposal. Never return to container for reuse. Do not allow product to contaminate drains, sewers, streams, ditches or bodies of water. Keep animals away from large spills.

**Aquatic Toxicity:** Mancozeb is toxic to fish. 96 hour, LC<sub>50</sub> for bluegill sunfish: 1.0 ppm.

**Waste Disposal Method:** Dispose according to Federal EPA procedures as outlined in the Resource Conservation Recovery act (RCRA) and follow state and local guidelines. Be sure bags are empty before disposal.

**VIII. SPECIAL PROTECTION INFORMATION**

**Protective Equipment Suggested for Outdoor Application:**

Impervious Gloves  Dust Mask  Respirator(use NIOSH/MSHA approved)

Impervious Boots  Clean Clothing  Eye Goggles / Safety Glasses

**Protective Equipment Suggested for Confined Areas:**

Sufficient Ventilation  Respirator(use NIOSH/MSHA approved)  Dust Mask  Splash Goggles/

Eyewash Station  Emergency Shower  Impervious Apron  Safety Glasses

**IX. STORAGE AND HANDLING**

**Precautions:** Store in a cool, dry, well ventilated area, if possible. Separate from other pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources. Product that becomes wet during storage could lead to reduced effectiveness as a fungicide and the creation of flammable vapors. Keep container tightly closed.

**X. FEDERAL REGULATORY INFORMATION**

**SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES**

Y Immediate (Acute) Health

Y Delayed (Chronic) Health

N Fire

N Sudden Release of Pressure

Y Reactivity

**SEC 302**

TPQ=NA

**SEC 313**

NA

**SEC 304**

RQ=NA

**CERCLA**

RQ=5000 lbs

(Ethylenebisdithiocarbamic Acid)

**D.O.T. SHIPPING INFORMATION:**

**PROPER SHIPPING NAME:** MANEB PREPARATION

For water: Pesticide water reactive

**HAZARD CLASS:** ORM-C (water shipments)

4.3 Land Shipments

**I.D. NUMBER NA2210 HAZMAT NUMBER: NA**

**CAA**

RQ=N/A

**EPA Reg. No.**

707-180-10404

NA = Not Applicable

ND = Not Determined

Preparation and distribution of this Material Safety Data Sheet done by LESCO, Inc., 15885 Sprague Road, Strongsville, OH 44136-1799, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200)..

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