



MATERIAL SAFETY DATA SHEET #3011

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DATE ISSUED: 11/15/00
SUPERSEDES: 03/30/00

I. PRODUCT IDENTIFICATION

Product: LESCO 4 Flowable Mancozeb **Chemical Family:** Ethylene Bisdithiocarbamate with Mn and Zn
Chemical Name/Synonyms: Flowable Mancozeb with Zinc, Mancozeb

II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA	%(by wt.)	CAS#
Mancozeb	1.0 mg/M ³ TWA	36-39%	8018-01-7
Alkylaryl Sulfonate	None	2-3%	ND
Water	None	59-61%	7732-18-5
Related Reaction Products	None	None	--

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point:	100° C (water)	Specific Gravity (water=1):	1.3
Melting Point:	0° C/32° F	Bulk Density (lbs./cu. ft.):	NA
Vapor Pressure (mm Hg):	17 MM HG @ 20° C	Evaporation Rate:	Water
Vapor Density (air = 1):	<1 Water	Percent Volatile:	50%
Solubility in Water:	Dispersible	Appearance and Odor:	Yellow liquid with a sulfur odor
pH:	5 - 7		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (method Used):	>150° C Setaflash Closed Cup	Auto Ignition Temperature:	ND
Lower Explosion Limits:	NA	Upper Explosion Limits:	NA
NFPA/HMIS RATING:	HEALTH 1	FIRE 1	REACTIVITY 0
Extinguishing Media:	<input type="checkbox"/> Foam <input checked="" type="checkbox"/> Water Spray	<input type="checkbox"/> Alcohol Foam <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Dry Chemical <input checked="" type="checkbox"/> CO ₂

Special Fire-Fighting Procedures: Wear protective clothing and use self-contained breathing apparatus. Dike area to prevent runoff and contamination of water sources. Remain upwind. Avoid breathing smoke. Use water spray to cool surface and prevent re-ignition.

Unusual Fire and Explosion Hazards: Pesticide particulates can become airborne. Combustion generates toxic fumes of the following: hydrogen disulfide, carbon disulfide, sulfur oxides, nitrogen oxides and carbon oxides.

V. HEALTH HAZARDS

Primary Route(s) of Entry: Skin, eyes, inhalation, ingestion.

Signs & Symptoms of Exposure

Acute: Inhalation of vapor or mist can cause irritation of nose and throat. Direct contact with eyes can cause possible irritation. Prolonged or repeated skin contact can cause slight skin irritation, dermatitis.

Chronic: A three month feeding study in rats indicated hind leg paralysis after a two week exposure, at a high dose level of 5,000 ppm, which also caused significant systemic toxicity and 40% mortality.

A two year feeding study indicated thyroid tumors in rats at a dietary concentration of 750 ppm. No evidence of carcinogenicity was observed in long-term studies with mice.

Mutagenicity tests provided a preponderance of negative results.

Emergency First-Aid Procedures

Eyes: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Skin: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Inhalation: Move subject to fresh air.

Ingestion: If swallowed, give two glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

Toxicity Information:

Oral LD₅₀: >5,000 mg/kg body weight (rats) **Dermal LD₅₀:** >5,000 mg/kg body weight (rabbits)

Inhalation LC₅₀: (rat): >5.14 mg/L for 4 hours(rat)

Eye Irritation: Inconsequential irritation

Skin Irritation: Slightly Irritating

Positive Teratogen or Mutagen Carcinogen(NTP): No **Potential Carcinogen (OSHA):** No **(IARC):**

VI. REACTIVITY

Stability: This material is considered stable. However, avoid temperatures above 49° C/120° F.

Conditions to Avoid: High temperatures for storage (over 49° C/120° F).

Incompatibility: Avoid contact with oxidizing agents and acids.

Hazardous Decomposition Products: Thermal decomposition may yield carbon disulfide and hydrogen sulfide.

Hazardous Polymerization: Will not occur Will occur

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

If material is spilled: Dike large spills using absorbent or impervious materials such as sand or clay. Recover and contain as much free liquid as possible. Recover remaining spilled material as appropriate. Absorb small spills on inert material such as sand or vermiculite. Wear appropriate personal protective equipment during cleanup activities. Do not allow product to contaminate drains, sewers, streams, ditches or bodies of water. Ensure adequate decontamination of tools and equipment following cleanup.

Waste Disposal Method: Triple rinse (or equivalent) and puncture empty container. Dispose empty container in a sanitary landfill or by incineration as allowed by state or local authorities. Avoid inhalation of smoke if incinerated.

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/Safety Glasses
 Eyewash Station Emergency Shower Impervious Apron

IX. STORAGE AND HANDLING

Precautions: Do not get in eyes. Avoid exposure by ingestion or inhalation. Avoid getting on skin or on clothing. Do not store near food, feedstuffs, fertilizers, seed or drinking water. Do not contaminate water, food or feed by storage or disposal.

Other Precautions: Store in a well ventilated area. Store in a dry area. Keep container tightly closed when not in use. Keep from freezing; material stability may be affected. The maximum recommended storage temperature for this material is 49° C/120° F.

X. FEDERAL REGULATORY INFORMATION:

SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES

Y Immediate (Acute) Health

N Delayed (Chronic) Health

N Fire

N Sudden Release of Pressure

N Reactivity

EPA Reg. No.: 707-156-10404

SEC 302: NA

SEC 304: NA

SEC 313: NA

CERCLA RQ: NA

CAA RQ: NA

HM 181 Shipping Name: Not Regulated

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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