

MATERIAL SAFETY DATA SHEET

Revision Date: June 18, 1998

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M-Pede Insecticide/Fungicide

Contact:

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Product Name:

Common Synonyms: Insecticidal Soap Concentrate
EPA Registration No.: Reg. No. 53219-8
Primary Hazards: Eye Irritant, Flammable

SECTION 1 - MATERIAL IDENTIFICATION

INGREDIENT 1

Common Name: Potassium salts of fatty acids
Chemical Name: Potassium salts of unsaturated aliphatic carboxylic acids
Molecular Formula: Primarily Potassium oleate ($KC_{18}H_{34}O_2$)
CAS Number: 10124-65-9
Percent: 49%

INGREDIENT 2

Common Name: Ethanol
Chemical Name: Ethyl Alcohol
Molecular Formula: C_2H_6O
CAS Number: 64-17-5
Percent: 36%

SECTION 2 - PHYSICAL DATA

Boiling Point: Not Determined
Melting Point: Not Determined
Vapor Pressure: Not Determined
Specific Gravity: 0.93
Solubility in Water: Highly Soluble
pH: 10.3
Appearance: Clear amber liquid
Odor: Lard-like odor

SECTION 3 FIRE AND EXPLOSION DATA

Flash Point: 16°C
Method: Tag open cup
Extinguishing Media: Water, alcohol foam, dry chemical, or carbon dioxide

Special Fire Fighting Procedures:

This product contains 36% alcohol which contributes to its flammability. Water should be sufficient to dilute the alcohol and extinguish the flame. If difficulty occurs, use an alcohol foam, dry chemical, or CO₂.

Unusual Fire and Explosion Hazards: Flammable liquid.

SECTION 4 - REACTIVITY

Stability: Stable
Hazardous Polymerization: None likely
Materials to Avoid: Concentrated mineral supplements (fertilizers), strong oxidizing agents.

Hazardous Decomposition Products: Decomposition may produce carbon dioxide and carbon monoxide.

SECTION 5 - HEALTH HAZARD

Primary Route of Entry: Dermal
Exposure Limit: Ingredient 2 contains methanol. OSHA TLV for ethanol is 1000 ppm, for methanol 200 pp.

Corrosivity: Not corrosive
Skin/Eye Irritation: Mild skin irritant, irritating to eyes
Sensitization: Not a sensitizer
Effects of Overexposure: Prolonged or repeated exposure may be irritating to skin, eyes, and mucous membranes. Methanol can be fatal or cause blindness if swallowed in quantity; however, levels of methanol in this product are not expected to pose an ingestion hazard.

Toxicity: None of the components of this product are listed as carcinogenic by NTP, IARC, or OSHA

Acute Studies:

Oral LD50 (Rat): > 5,000 mg/kg (low toxicity)
Dermal LD50 (Rabbit): > 2,000 mg/kg (low toxicity)
Inhalation LC50 (Rat): > 0.853 mg/L (low toxicity)

SECTION 6 - FIRST AID

Emergency First Aid Procedures:

If Swallowed: Give demulcent (milk)
If Inhaled: Remove to fresh air.
If In Eyes: Flush eyes with plenty of water. See a physician if irritation persists.
If On Skin: Wash affected area.

SECTION 7 - SPILL, LEAK AND DISPOSAL PROCEDURES
Steps To Be Taken In Case Material Is Released Or Spilled:

- Do not breath vapor. Do not handle in confined spaces without adequate ventilation. If inadequate use suitable respirator. Avoid contact with skin and eyes.
- Contain leaking liquid with sand or other non-combustible absorbent and place in a clean container for disposal.
- Waste Disposal Method:
- Waste, including spills or rinsates, and leftover pesticide that cannot be used according to label instructions must be disposed of according to applicable federal, state, and local procedures.

SECTION 8 - SPECIAL HANDLING

- Respiratory Protection:** Ensure good ventilation. Specific respiratory protection should not be necessary.
- Protective Gloves:** Recommend wearing impervious gloves when repeated or prolonged exposure is likely.
- Eye Protection:** Chemical safety goggles should be worn whenever there is the possibility of splashing or other contact with the eyes.

Although general guidance has been provided, the degree of protection required in a particular situation depends on factors such as concentration and duration. More detailed advice on protective devices is available from Mycogen.

SECTION 9 - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

- Keep in original container, tightly closed in a safe place.
- Empty container completely and dispose of safely.
- Wash any contamination from skin or eyes immediately.
- Remove any heavily contaminated clothing immediately.
- Wash hands and exposed skin before eating, drinking, or smoking and after working with product. Do not use, store, spill or pour near heat or open flame.

Environmental Hazards:

This product may be hazardous to aquatic invertebrates. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of water.

SECTION 10 - SHIPPING REGULATIONS

Proper Shipping Name: Ethanol Solutions
Description: Ethanol Solutions, 3, UN 1170, PG II
DOT Label(s): Flammable Liquid-3
Freight Classification: Insecticides or Fungicides, Agricultural N.O.I., Other Than Poisons, NMFC 102120, Class 60.

SARA Title III Hazard Classification:

Immediate (acute) Health: No
Delayed (chronic) Health: No
Fire: Yes
Sudden Release of Pressure: No
Reactive: No

National Fire Protection Association Rating:

Health: 1
Flammability: 3
Reactivity: 0

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