# MATERIAL SAFETY DATA SHEET

**Product Name:** M-Pede Insecticide/Fungicide  
**Revision Date:** June 18, 1998

## 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\textsubscript{18}H\textsubscript{34}O\textsubscript{2})  
- **CAS Number:** 10124-65-9  
- **Percent:** 49%

### INGREDIENT 2

- **Common Name:** Ethanol  
- **Chemical Name:** Ethyl Alcohol  
- **Molecular Formula:** C\textsubscript{2}H\textsubscript{6}O  
- **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 CO\textsubscript{2}.

### 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 LD\textsubscript{50} (Rat):** > 5,000 mg/kg (low toxicity)  
- **Dermal LD\textsubscript{50} (Rabbit):** > 2,000 mg/kg (low toxicity)  
- **Inhalation LC\textsubscript{50} (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.
M-Pede Insecticid/Fungicide

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 absorbant 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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