



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Formulator: Gowan Company
P.O. Box 5569
Yuma, Arizona 85366-5569
(800) 883-1844

For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC®:

Inside the U.S.: (800) 424-9300
Outside the U.S.: (703) 527-3887
(888) 478-0798

For Medical Emergency:

Product: **M-Pede® Insecticide Miticide Fungicide**

EPA Signal Word: Warning

EPA Registration No.: 10163-324

Active Ingredient: Potassium Salts of Fatty Acids (49.0%)

CAS No.: 067701-09-1

Chemical Name: Potassium Laureate

Chemical Class: Soap

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Yellow liquid with a musty odor.

Health/Environmental Hazards: May cause eye irritation and corneal injury. May cause skin irritation.

OSHA Hazard Communication Standard

This product is a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS #	W/W%
Potassium Salts of Fatty Acids	067701-09-1	49.0
Propylene Glycol	000057-55-6	37.4

Only the identities of the active ingredient(s) and any *hazardous* inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

4. FIRST AID MEASURES

Eye Contact: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center for doctor for treatment advice. Never give anything by mouth to an unconscious person.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to so swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc.). Call a poison control center for treatment advice.

4. FIRST AID MEASURES - continued

Note to Physician

Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: (888) 478-0798

5. FIRE FIGHTING MEASURES

Flashpoint (test method): 160°C

Flammable Limits (% in air): Not determined

Appropriate Extinguishing Media

Foam, CO₂, or dry chemical

Fire Fighting Guidance

Use positive-pressure, self-contained breathing apparatus and full protective equipment.

Unusual Fire, Explosion, and Reactivity Hazards

Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Toxic irritating gases may be formed under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Steps to be Taken if Material is released or Spilled: Contain spilled material if possible. Small spills: Absorb with materials such as clay, dirt, sand, or Zorb-all®. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Gowan Company for clean-up assistance.

Personal Precautions: Use appropriate safety equipment. For additional information, refer to section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

7. HANDLING AND STORAGE

Handling

General Handling: Keep out of reach of children. Do not swallow. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

Other precautions: Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Storage

Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

Exposure Guidelines

Propylene Glycol: AIHA WEEL is 50 ppm total, 10 mg/M³ aerosol only

Potassium Hydroxide: ACGIH TLV is 2 mg/M³

Engineering Controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines

Recommendations for Manufacturing, Commercial Blending, and Packaging Employees

Eye/Face Use chemical goggles

Skin Protection Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION - continued

Hand protection:	Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: chlorinated polyethylene, neoprene, polyethylene, ethyl vinyl alcohol laminate (EVAL), polyvinyl chloride (PVC or vinyl), Viton. Examples of acceptable glove barrier materials include: butyl rubber, natural rubber (latex), nitrile/butadiene rubber (nitrile or NBR), polyvinyl alcohol (PVA).
Respiratory Protection	Use an approved respirator. Selection of air purifying or positive pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: organic vapor cartridge with a particulate pre-filter.
Applicators/Handlers	Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid
Odor:	Musty
Density:	1.02 g/mL @ 20°C
pH:	10.2
Boiling Point:	No test data available.
Solubility in H₂O	No test data available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Not known to occur
Decomposition Products:	None known.
Conditions To Avoid:	None known.

11. TOXICOLOGICAL INFORMATION

EYE: May cause moderate eye irritation. May cause corneal injury. Mist may cause eye irritation. Effects may be delayed.

SKIN: Brief contact may cause skin irritation with local redness. Prolonged contact may cause severe skin irritation with local redness and discomfort. Effects may be delayed. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD50 has not been determined.

INGESTION: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in irritation of the mouth, throat, and gastrointestinal tract. Single dose oral LD50 has not been determined.

INHALATION: Mist may cause irritation of upper respiratory tract (nose and throat) and lungs. May cause pulmonary edema (fluid in the lungs). The aerosol LC50 has not been determined.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

CANCER INFORMATION: Propylene glycol did not cause cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): Propylene glycol did not cause birth defects or any other fetal effects in laboratory animals.

REPRODUCTIVE EFFECTS: For propylene glycol, in animal studies, did not interfere with production. In animal studies, did not interfere with fertility.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: No relevant information found.

DEGRADATION & PERSISTENCE: No relevant information found.

ECOTOXICOLOGY: No relevant information found.

13. DISPOSAL CONSIDERATION

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of the material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with the applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. TRANSPORT INFORMATION

DOT Classification

Non-bulk: Not regulated

Bulk (greater than 11,235 pounds): UN3082, RQ, Environmentally Hazardous Substance, Liquid, N.O.S., (contains Potassium Hydroxide), 9, PGIII

IMDG Classification

UN3082, Environmentally Hazardous Substance, Liquid, N.O.S., (contains Potassium Hydroxide), 9, PGIII

IATA Classification

UN3082, Environmentally Hazardous Substance, Liquid, N.O.S., (contains Potassium Hydroxide), 9, PGIII

15. REGULATORY INFORMATION

SARA Title III Classification

Section 302/304:

Section 311/312: Immediate (acute) health hazard

Section 313 chemical(s): Not applicable

State Right-To-Know: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>List</u>
Propylene Glycol	000057-55-6	PA1
Potassium Hydroxide	001310-58-3	NJ3, PA1

Proposition 65 Not applicable

CERCLA Reportable Quantity (RQ)

<u>Chemical Name</u>	<u>CAS Number</u>	<u>RQ</u>	<u>% in product</u>
Potassium Hydroxide	001310-58-3	1,000 lb.	9%

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA Status

All ingredients are on the TSCA inventory or are not required to be listed.

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 1
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Prepared By:

sds@gowanco.com

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