

LIQUINOX *Company*

221 WEST MEATS AVENUE ORANGE, CALIFORNIA 92865-3386
PHONE (714) 637-6300

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Trade Name: LIQUINOX ACID PLANT FOOD
Chemical Name: Aqueous Fertilizer Solution

Manufacturer's Name: Liquinox Company
221 West Meats Avenue
Orange, California 92667

Emergency Phone: (714) 970-2334
Business Phone: (714) 637-6300

Prepared by: Hap Garner
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2. HAZARDOUS INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>PERCENT</u>
Urea Aqueous Solution	NONE	4%
Orthophosphoric Acid	7664-38-2	10%
Potassium Chloride	7447-40-7	10%
Aqueous Yucca Extract Solution	NONE	10%

3. PHYSICAL PROPERTIES

Vapor Density: Heavier Melting Point or Range: F
Specific Gravity: 1.220 Boiling Point or Range: F
Solubility in Water: Total
Vapor Pressure, mmHg at 20° C 5.65 mmHg
Evaporation Rate: (Butyl Acetate = 1); Slower than either
Appearance and Odor: Light to dark brown; minimum odor

How to detect this substance: Avoid breathing fumes; possible irritation.

4. FIRE AND EXPLOSION

Flash Point: N/A
Autoignition Temperature: N/A
Flammable Limits in Air, Volume %: LOWER
Fire extinguishing materials: Water spray, foam, carbon dioxide
-Special fire-fighting procedures: **None required.** Use large amounts of water and/or foam.
-Unusual fire and explosion hazards: None

5. HEALTH HAZARD INFORMATION

Symptoms of Overexposure:

- **INHALED:** Remove from area. Clear airway and start mouth-to-mouth contact. Use respirator or manual oxygen supply.
- **CONTACT WITH SKIN OR EYES:** Flush immediately with large amounts of water for at least 15 minutes. Call physician.
- **ABSORBED THROUGH SKIN:** Flush with large amounts of water. Call physician.
- **SWALLOWED:** Give large amounts of water. Do NOT induce vomiting or give mouth-to-mouth contact. Use respirator or manual oxygen supply.

Health Effects or Risks from Overexposure:

- **ACUTE:** Skin irritation – flush with water and see physician regularly.
- **CHRONIC:** Prolonged or repeated skin contact may result in dermatitis or skin burn.

First Aid Emergency Procedures:

- **EYE CONTACT:** Flush well with large amounts of water, call physician.
- **SKIN CONTACT:** Flush well with large amounts of water, call physician. Remove contaminated clothing and wash.
- **INHALED:** Remove person from area. Start mouth-to-mouth contact and use oxygen source if available.
- **SWALLOWED:** Give large amounts of water. Do NOT induce vomiting; call physician.

Medical Conditions Aggravated by Exposure:

- Possible skin burn and dermatitis; respiratory track irritation.

Recommendations to Physician:

- Flush areas with generous supply of clean water.

SUSPECTED CANCER AGENT: **NO**

6. REACTIVITY DATA

STABILITY:.....Stable
CONDITIONS TO AVOID :Strong Alkaline
INCOMPATIBILITY:Steel or other non-corrosion resistant metals
HAZARDOUS DECOMPOSITION PRODUCTS:None
HAZARDOUS POLYMERIZATION:Will Not Occur

7. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill Response Procedures: Use adequate amounts of water for flushing. Spread baking soda or soda ash on spill. Confine spill to limited area. Call (800) 424-9300 for additional help.

Preparing Wastes for Disposal: Use soda ash or baking soda to neutralize spilled area.

NOTE: DISPOSE OF ALL WASTES IN ACCORANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

8. SPECIAL HANDLING INFORMATION

- Ventilation and Engineering Controls: General mechanical ventilation will be sufficient to keep vapor concentration within specified limits.
- Respiratory Protection: None needed in normal use.
- Eye Protection: Safety glasses, goggles, or face shield.
- Gloves: Use impermeable plastic or rubber gloves.
- Other clothing and equipment: Use plastic or rubber aprons. Do NOT use cloth aprons.
- Work Practices: Keep out of reach of children.
- Hygienic Practices: Flush with generous amounts of water.
- Other Handling and Storage Requirements: Read directions, close containers after using. Store away from activity areas. For best use, store in a cool area. Use ample amounts of water in spilled area.
- Protective Measures During Maintenance of Contaminated Equipment: Use goggles, face shield, or plastic aprons and gloves. Have water supply nearby.

9. LABELING

Keep out of reach of children. This product contains phosphoric acid – harmful if swallowed. Avoid contact with eyes and skin. Wash well with clean water. Consult a physician immediately.

NOTICE: Buyer assumes all responsibility for safety and use of this product not in accordance with directions and cautions.