# MATERIAL SAFETY DATA SHEET

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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

## **Chemical Product**

**ADJUST** 

CA Reg. No. 17545-50024-AA

Common Name: Nutrient-Buffer.

Chemical Description: Citric acid nutrient-buffer.

TSCA/CAS No.: This product is a mixture — there is no specific CAS No.

#### Manufactured For

Monterey AgResources

P. O. Box 35000 Fresno, CA 93745

## **Emergency Phone Numbers**

Emergency Telephone: DAYS: (559) 499-2100 EVES: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2.	HAZARDOUS INGREDIENTS			
CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Potassium hydrox	ide 1310–58–3	1.0	*N.A.	1,000
Potassium nitrate	7757-79-1	9.5	N.A.	*N.P.

<sup>\*</sup> N.A. – Not available.

## SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear liquid with a slight citrus odor. Mild irritant to eyes and skin. If ingested may cause stomach cramps and/or nausea. Contain any liquid runoff. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 1 FLAMMABILITY: 0 ENVIRONMENT: 1

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

#### SECTION 4. FIRST AID

Eyes: Flush with plenty of water. Call a physician if eye irritation persists.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash

before reuse. See a physician if skin becomes irritated.

Ingestion: If conscious and alert, drink water or milk to dilute, then induce vomiting. Call a

physician or Poison Control Center immediately.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

<sup>\*</sup> N.P. - Not pertinent.

### SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point: >200°F.
Test Method: ASTM D-56.
LEL Flammable Limits: Not pertinent.
UEL Flammable Limits: Not pertinent.
Autoignition Temperature: Not pertinent.
Flammability Classification: Noncombustible.

Known Hazardous Products of Combustion: None.

Properties that Initiate/Contribute to Intensity of Fire: None.

Reactions that Release Flammable Gases or Vapors: Not known.

Potential For Release of Flammable Vapors: None.

Unusual Fire & Explosion Hazards: None.

Extinguishing Media: Not pertinent.

Special Firefighting Procedures: Wear positive pressure, self-contained

breathing apparatus and goggles.

Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment: Prevent product spillage from entering drinking water supplies or

streams.

Clean Up: Collect liquid or absorb onto absorbent material and package for

disposal.

Evacuation: Not necessary.

SECTION 7. STORAGE AND DISPOSAL

Storage: Store in plastic or stainless steel container in a cool, well-

ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical-resistant plastic or stainless steel

tanks, pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Avoid contact with eyes, skin and

clothing. Avoid inhalation of spray mists. Wash thoroughly with

water after handling.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a

general rule, do not wear contact lenses when handling.

Skin: Impervious gloves and clothes.

Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation,

use NIOSH-approved dust/mist respirator (such as 3M #8710).

Ventilation: Recommended but no TLV established.

### SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance: Clear liquid.

Odor: Slightly citrus odor.

pH: Not available. Vapor Pressure: 760 mm Hg.

Vapor Density (Air=1): <1.0

Boiling Point: 100°C (212°F) Freezing Point: Not available.

Water Solubility: Completely miscible.

Density: 10.1 lbs./gal.
Evaporation Rate: Same as water.
Viscosity: 70 centipoises.
% Volatile: Not available.
Octanol/Water Partition Coefficient: Not available.
Saturated Vapor Concentration: Not available.

### SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions To Avoid: None known.

Incompatibility: Avoid contact with strong alkalis.

Hazardous Decomposition Products: None known. Hazardous Polymerization: Will not occur.

#### SECTION 11. POTENTIAL HEALTH EFFECTS

**Acute Effects:** 

Eyes: Mild irritant. May cause redness.

Skin: Mild irritant, especially from prolonged exposure. May cause redness.

Ingestion: May cause stomach cramps and/or nausea.

Inhalation: None expected but inhalation of aerosol mist may cause mild irritation of

nasal mucous membranes.

<u>Subchronic Effects</u>: None known. <u>Chronic Effects</u>: None known.

## SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:

Toxicity to Fish and Invertebrates:

Not known.

Toxicity to Plants:

Not known.

Not known.

Not known.

### SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

### SECTION 14. TRANSPORTATION

D.O.T.: Not D.O.T. Regulated.

Other Shipping Description: Adhesives, Adjuvants, Spreaders or Stickers,

Liquid. NMFC Item 4612, LTL Class 60

#### SECTION 15. REGULATORY INFORMATION

<u>CERCLA</u>: Potassium hydroxide, with a Reportable Quantity of 1,000 lbs., is listed as a priority pollutant under the Clean Water Act and, as such, falls under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): None.

## SECTION 16. OTHER

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Monterey AgResources does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Monterey AgResources assumes legal responsibility.