

MATERIAL SAFETY DATA

Issue Date: 06/05

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

Alfa-5

Common Name: Micronutrient fertilizer.

Chemical Description: Chelated fertilizer solution derived from Boron, Molybdenum, Magnesium, Manganese and Zinc Mannitol.

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

Manufactured for United Suppliers, Inc.
30473 260th Street Box 538
Eldora, Iowa 50627-0538
www.unitedsuppliers.com
800-782-5123

Emergency Phone Numbers

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) None.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Amber colored liquid with no odor. May cause eye and skin irritation. May be harmful if ingested. Do not mix with liquid fertilizers containing phosphates. Carbon monoxide fumes may form from burning. Not D.O.T. regulated.

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

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

SECTION 4. FIRST AID

Eyes: Rinse eyes with plenty of running water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

Ingestion: If conscious and alert, administer water or milk to dilute, then induce vomiting. Call Poison Control Center or physician immediately. Do not give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point: Does not flash.

Test Method: Not available.

LEL Flammable Limits: Not available.

UEL Flammable Limits: Not available.

Auto Ignition Temperature: Not available.

Flammability Classification: Nonflammable.

Known Hazardous Products of Combustion: Not known.

Properties that Initiate/Contribute to Intensity of Fire: Not known.

Potential For Dust Explosion: None.

Reactions that Release Flammable Gases or Vapors: Not known.

Potential For Release of Flammable Vapors: Not known.

Unusual Fire & Explosion Hazards: None.

Extinguishing Media: Foam, carbon dioxide, dry chemical, or water fog.

Special Firefighting Procedures: Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation.

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 HANDLING

Storage: Store in original container only in a cool, well-ventilated, dry place at temperatures between 40° and 95°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. Harmful if swallowed. Avoid breathing spray mists or vapors. Avoid contamination of feed or foodstuffs. After using this product remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

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: Blue/green colored liquid.

Odor: None.

pH: Not determined.

Vapor Pressure: None.

Vapor Density (Air=1): Not available.

Boiling Point: Not available.

Freezing Point: 32°F.

Water Solubility: Miscible.

Density: 10.1 lbs./gal

Evaporation Rate: Not determined.

Viscosity: Not available.

% Volatile: Not available.

Octanol/Water Partition Coefficient: Not available.

Saturated Vapor Concentration: Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions To Avoid: Do not mix with liquid fertilizers containing phosphates.

Incompatibility: Not available.

Hazardous Decomposition Products: Burning may result in formation of carbon monoxide fumes.

Hazardous Polymerization: Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

Acute Effects:

Eyes: May cause temporary eye irritation.

Skin: May cause slight irritation, especially from prolonged exposure. May cause redness.

Ingestion: May cause stomach cramps and/or nausea.

Inhalation: None expected but inhalation may cause mild irritation of nasal mucous membranes.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known.

Toxicity to Fish and Invertebrates: Not known.

Toxicity to Plants: Not known.

Toxicity in Birds: Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment wash waters. Dispose of waste effluents in accordance with state and local waste disposal 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.

SECTION 14. TRANSPORTATION

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

Other Shipping Description: Fertilizing Compounds (Manufactured), Liquid.
NMFC Item 68140 Sub 6, LTL Class 70

SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: Zinc compounds (4.70%)

SECTION 16. OTHER

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