

MATERIAL SAFETY DATA SHEET

Upplause®

10-0-0

Penetrant Foliar Micronutrient Emulsion for Robust Turf and Quality Ornamentals.

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Issue Date: August 2005

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

Upplause® 10-0-0 Penetrant Foliar Micronutrient Emulsion for Robust Turf and Quality Ornamentals

Common Name: Fertilizer blend.

Chemical Description: Water; urea; calcium, magnesium and manganese as EDTA complexes; iron as HeEDTA complex; polyoxypropylene-polyoxyethylene block copolymer; and proprietary corn product.

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

Manufactured For

Innovation Hammer, L. L. C.

230 Oakham Court

Powell, Ohio 43065

Office Telephone: (614) 519-5748

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

Watery brown liquid. Odorless to slight odor of ammonia. Prevent product from entering drinking water supplies or streams. Not D.O.T. regulated.

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

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

SECTION 4. FIRST AID

Eyes: Flush immediately with water for at least 15 minutes. 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 and then induce vomit response. Call a physician or Poison Control Center immediately.

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

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point: Will not burn.

Test Method: Not pertinent.

LEL Flammable Limits: Not pertinent.

UEL Flammable Limits: Not pertinent.

Autoignition Temperature: Not pertinent.

Flammability Classification: Non-flammable.

Known Hazardous Products of Combustion: Thermal combustion from excessive heat such as fire may release ammonia and carbon monoxide.

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

Potential For Dust Explosion: No.

Reactions that Release Flammable Gases or Vapors: None.

Potential For Release of Flammable Vapors: None.

Unusual Fire & Explosion Hazards: Decomposes on heating to nitrogen oxides.

Extinguishing Media: Non-combustible liquid and use extinguishing media for underlying cause of fire.

Special Firefighting Procedures: Wear positive pressure, self-contained breathing apparatus and goggles with full protective equipment.

Use water spray to keep fire-exposed containers cool.

SECTION 6. SPILLS AND LEAKS

Containment: Prevent product spillage from entering drinking water supplies or streams.

Clean Up: Ventilate spill area. Sweep up and use according to labeling or package for disposal according to local, state and federal regulations.

Evacuation: Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage: Avoid contact with strong oxidizers. Store in a cool, dry place. Do not store near food or feeds. Do not stack pallets more than two (2) high. Do not reuse containers.

Transfer Equipment: Transfer solutions of 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 aqueous mist.

Wash thoroughly with water after handling. Remove contaminated clothing and wash before reuse.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes: Chemical dust/splash goggles to keep dust out of eyes. For solutions of product, use chemical splash goggles or full-face shield.

As a general rule, do not wear contact lenses when handling.

Skin: Impervious gloves and clothes.

Respiratory: Not normally needed, but NIOSH-approved respirator (such as 3M #8710) recommended for nontoxic mist when mixing.

When solutions generate 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: Brown liquid.

Odor: Slight ammonia.

pH: ~7.0

Vapor Pressure: ~59 mm Hg at 21 ° C.

Vapor Density (Air=1): Not applicable.

Boiling Point: 102 ° C.

Freezing Point: <-5 ° C.

Specific gravity: 1.14

Water Solubility: Completely miscible.

Density: 9.5 lbs./gal.

Evaporation: Not available

Viscosity: Not available.

% Volatile: About 75% as water.

Octanol/Water Partition Coefficient: Not available.

Saturated Vapor Concentration: Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: None.

Incompatibility: Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium or calcium hypochlorite.

Hazardous Decomposition Products: Not available.

Hazardous Polymerization: Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

Acute Effects:

Eyes: Contact of product solution or mist will cause irritation or redness of eyes.

Skin: Slight irritant especially if from prolonged exposure.

Ingestion: May cause stomach cramps and nausea.

Inhalation: Slight irritant and may cause irritation of the respiratory tract.

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 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: Fertilizing Compounds (mixed) dilute aqueous solution.

NMFC Item 68140 Sub 6, LTL Class 70

SECTION 15. REGULATORY INFORMATION

CERCLA: Iron and manganese compounds are included as priority pollutants under the Clean Water Act and, as such, fall under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: Manganese compounds, (<15%).

PROPOSITION 65 (CA): WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.