

Material Safety Data Sheet

Effective Date: 24-FEB-2004
Product: TRACITE HEP POTATO MIX

I. IDENTIFICATION

Chemical Name: Chelated micronutrients
Chemical Family: Inorganic metal salts
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: >212 Degrees F.
Freezing Point: <32 Degrees F.
Spec Gravity: 1.177 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: 99%
Volatiles: 67%
Evaporation: Not determined
Melting Point: Not determined
Appearance: Clear brown liquid with phenolic odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary blend of inorganic metal salts, derived from sodium borate, iron sulfate, iron glucoheptonate, manganese sulfate, manganese glucoheptonate, sodium molybdate, zinc sulfate and zinc glucoheptonate.		100.00	15 mg/m3	Skin & eye irritant

TYPICAL COMPOSITION:
Sulfur (S) - 1.00%
Boron (B) - 2.27%
Iron (Fe) - 0.30%
Manganese (Mn) - 1.30%
Molybdenum (mo) - 0.005%
Zinc (Zn) - 0.30%

IV. FIRE AND EXPLOSION HAZARD

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Flash Point: Non-combustible
Autoignition Temp: Not applicable
Flammable Limit: Not applicable
Extinguishing Media: Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.
Fire and Expl Hazard: Product may produce toxic fumes under fire conditions.

V. HEALTH HAZARD

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Ingestion results in vomiting and abdominal cramps.
Skin Absorption: None currently known.
Inhalation: Inhalation may cause irritation to the upper respiratory tract.
Skin contact: Prolonged or repeated contact may cause skin irritation.
Eye Contact: May cause eye irritation with direct contact.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: If conscious, give milk or water to drink and induce vomiting. Seek medical treatment if irritation or discomfort develops.
Skin: Wash affected area thoroughly with soap and water. Obtain medical attention if irritation develops.
Inhalation: Move to fresh air. If irritation develops, seek medical treatment.
Eyes: Flush eyes with water for at least 15 minutes, holding eyelids wide open. If irritation develops, seek medical attention.
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

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VI. REACTIVITY

Stability: Stable
Conditions to Avoid: None currently known.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Product may react vigorously with alkaline materials. Corrosive to aluminum, mild steel and brass.
Hazardous Combustion: May produce sulphur dioxide, carbon dioxide and carbon monoxide under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain product. If uncontaminated, collect and reuse. If contaminated, absorb spilled material with an absorbent such as clay or sand and place in suitable container for proper disposal. Do not contaminate water supplies, lakes, streams or ponds with spilled product.
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal use conditions. If vapors exceed TLV, use NIOSH-approved respirator.
Ventilation: Local exhaust sufficient.
Gloves: Impervious gloves.
Eyes: Splashproof goggles.
Other: Eyewash station, impervious apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams or ponds.
Other precaution: Store and/or ship in polypropylene, fiberglass or stainless steel containers. Use only stainless steel or PVC fittings.

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27-FEB-2004 14:26:41
Page 4 Of 4

Material Safety Data Sheet

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X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT
Hazard Class: None
Identification No: None
Labels Required: None required
Placarding: None
Freight Class: Compound, Fertilizer (Manufactured Fertilizer),
Liquid, N.O.I.

Chemical Name	Equivalent R.Q.
Ferrous sulfate (CAS No. 7720-78-7)	1000 lbs/454 kg
Zinc sulfate (CAS No. 7733-02-0)	1000 lbs/454 kg

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 0 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y Delayed (Chronic) Health: N
Sudden Release of pressure: N Fire: N
Reactive: N

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