

Material Safety Data Sheet

Effective Date: 10-SEP-2012
Product: ECO-MATE CROP MIX

I. IDENTIFICATION

Chemical Name: Inorganic Metal Salts
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: >100 Degrees C.
Freezing Point: <20 Degrees F.
Spec Gravity: 1.182 g/ml
Vapor Pressure: Not established
Vapor Density: Not established
Solubility: 99%
Volatiles: <0.5%
Evaporation: Not established
Melting Point: Not applicable
Appearance: Opaque brown liquid without solids.

III. INGREDIENTS

| Material | CAS Number | Percent | TLV | Hazard |
|--|------------|---------|---------|----------------------|
| Manganese Sulfate | 7785-87-7 | 3-5 | 5 mg/m3 | Skin & eye irritant. |
| Zinc Sulfate | 7733-02-0 | 10-12 | N/E | Skin & eye irritant. |
| Ferrous Sulfate | 7720-78-7 | 4-6 | 1 mg/m3 | Skin & eye irritant. |
| Water, lignosulfonate-based complexing agent, and inert ingredients. | | 77-83 | N/E | None known. |

IV. FIRE AND EXPLOSION HAZARD

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

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keep fire-exposed containers cool.
Fire and Expl Hazard: May emit toxic fumes under fire conditions.

V. HEALTH HAZARD

Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Ingestion results in vomiting and abdominal cramps.
Skin Absorption: None currently known.
Inhalation: Inhalation of spray mist or vapors may cause irritation of the nose and throat.
Skin contact: Irritation of the skin may occur with contact.
Eye Contact: Eye irritation may occur with 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, induce vomiting. Obtain immediate medical attention.
Skin: Remove contaminated clothing and wash affected skin with plenty of soap and water. Call a doctor if irritation develops or persists.
Inhalation: Move to fresh air. Call a doctor if irritation develops or persists.
Eyes: Flush eyes with water for 15 minutes, holding the eyelids apart. Immediately call a doctor.
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. If contact has been made with a spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide labeling.

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

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materials.
Hazardous Combustion: Emits sulfur dioxide under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain spilled product, collect and reuse material if uncontaminated. If contaminated, absorb with an inert material, such as clay or sand, collect and place in suitable container for proper disposal. Do not contaminate water supplies 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 conditions.
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, ponds or drains.
Other precaution: This product does not contain any chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT in containers less than 913 gallons.
Hazard Class: None
Identification No: None
Labels Required: None required

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Placarding: None
Freight Class: Compound, Fertilizer (Manufactured
Fertilizer), Liquid, NOIBN (NMFC Item 68140,
Sub 6, Class 70)

| Chemical Name | Equivalent R.Q. |
|-----------------|---------------------------|
| Zinc Sulfate | 1,000 lbs (913 gallons) |
| Ferrous Sulfate | 1,000 lbs (2,028 gallons) |

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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