



Safety Data Sheet

Report Date 23-May-15

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1. Identification

Product Name : PRO-MATE N-TURF GREEN 7-0-0
Synonyms : None
Product Use : Nutrient
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Causes severe skin burns
Eye Irritation : Causes serious eye damage
Acute Toxicity Oral : Ingestion will immediately irritate or burn throat.
Acute Toxicity Dermal : Prolonged skin contact may result in inflammation and redness of skin.

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-1/1C; Respiratory Irritation-3; Oxidizer-

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes severe skin burns and eye damage
May be harmful if inhaled
May cause respiratory irritation
May intensify fire; oxidizer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from manganese nitrate, magnesium nitrate and ferric nitrate.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N): 7.00%		
Magnesium (Mg): 3.50%		
Iron (Fe): 1.50%		
Manganese (Mn): 3.50%		

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.



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Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Use extinguishing media for underlying cause of fire. Use water spray to keep fire-exposed containers cool.

Specific Hazards Arising from the Chemical : Under fire conditions, this product may behave as an oxidizer. In contact with oxidizable substances, ignition, violent combustion or explosion could occur.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Contain product to prevent spreading. Do not contaminate water supplies.

Methods and Materials for Containment and Cleanup : If uncontaminated, collect and reuse as product. If contaminated, cover with inert absorbent, such as clay or sand. Scoop or sweep up and place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.

Conditions for Safe Storage : Store in original container only. Do not store near heat, combustible materials or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

TLV/PEL : TLV for Manganese Compounds = 0.2 mg/m³. TLV for Iron Salts, soluble (as Fe) = 1 mg/m³.

Appropriate Engineering Controls : Local exhaust is sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Clear brown liquid with irritating odor.

Flash Point, °F : Not flammable; oxidizer

Boiling Point, °F : >212 Degrees F.

Melting Point(Freezing point), °C : <35 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : Not established

Vapor Density : Not established

Solubility in Water : Soluble



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Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.360-1.380
Evaporation Rate(Butyl Acetate = 1) : Not established
Octanol/Water Partition Coefficient : No information found
pH : <2.0
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : Emits nitrogen oxides under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Under fire conditions, product may behave as an oxidizer. In contact with oxidizable substances, ignition, violent combustion or explosion could occur.
Incompatible Materials : Avoid contact with oxidizable materials, such as sulfur and organic matter. Do not expose to zinc or aluminum metal.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 available. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available. May be harmful if inhaled. May cause respiratory irritation.
Likely Routes of Exposure : Eyes, skin, inhalation
Skin Irritation : Causes severe skin burns.
Eye Irritation : Causes serious eye damage.
Skin Sensitization : Not listed as a sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No information found
Other Hazards : No information found

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information



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UN Proper Shipping Name : Nitrates, Inorganic, Aqueous Solution, n.o.s., (Magnesium Nitrate, Manganese Nitrate)
Transport Hazard Class : Oxidizer (5.1)
UN Identification Number : UN3218
Packaging Group : PG III
Environmental Hazards : No information found
Transport in Bulk : Reportable quantity (Ferric Nitrate) = 1,000 lbs (>612 gallons).
Special Precautions for Transportation : Use ERG # 140
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

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

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

16. Other Information

Data of Preparation/Revision : 23-May-2015