



## Safety Data Sheet

Report  
Date 23-May-15

Page 1 of 4

### 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.



## Safety Data Sheet

Report  
Date **23-May-15**

Page 2 of 4

**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/m<sup>3</sup>. TLV for Iron Salts, soluble (as Fe) = 1 mg/m<sup>3</sup>.

**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



## Safety Data Sheet

Report  
Date **23-May-15**

Page 3 of 4

**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



## Safety Data Sheet

Report  
Date **23-May-15**

Page 4 of 4

**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