



## Safety Data Sheet

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### 1. Identification

**Product Name** : ELE-MAX TURF NECTAR 12-0-0  
**Synonyms** : None  
**Product Use** : Inorganic liquid fertilizer  
**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 causes gastrointestinal upset.  
**Acute Toxicity Dermal** : No acute effects currently known.  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-1/1A; STOT, Repeated-2  
**Hazard Statement** : Harmful if swallowed  
May be harmful in contact with skin  
Causes severe skin burns and eye damage  
May be harmful if inhaled  
May cause damage to organs through prolonged or repeated exposure

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from Urea, Ferrous Sulfate Heptahydrate, Manganese Sulfate, and Zinc Sulfate.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		12.00%
12.00% Urea Nitrogen		
Sulfur (S):		3.60%



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3.60% Combined Sulfur	
Iron (Fe):	5.00%
5.00% Water Soluble Iron	
Manganese (Mn):	0.50%
0.50% Water Soluble Manganese	
Zinc (Zn):	0.50%
0.50% Water Soluble Zinc	

### 4. First Aid Measures

<b>Eye</b>	: 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.
<b>Skin</b>	: 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.
<b>Inhalation</b>	: 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.
<b>Ingestion</b>	: 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.
<b>Indication of Immediate Medical Attention and Special Treatment Needed</b>	: In the event of an adverse response, treatment should be directed toward control of the symptoms.

### 5. Fire Fighting Measures

<b>Extinguishing Media</b>	: Non-combustible liquid. Use extinguishing media for underlying cause of fire.
<b>Specific Hazards Arising from the Chemical</b>	: Decomposes on heating to nitrogen oxides.
<b>Special Fire Fight Proc</b>	: Use positive pressure self-contained breathing apparatus with full protective clothing. Use water spray to keep fire exposed containers cool.

### 6. Accidental Release Measures

<b>Personal Precautions</b>	: Keep unprotected and unnecessary personnel out of spill area.
<b>Protective Equipment</b>	: 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.
<b>Emergency Procedures</b>	: Do not contaminate water supplies with spilled product.
<b>Methods and Materials for Containment and Cleanup</b>	: Contain product, reuse material if uncontaminated. If contaminated, absorb material with an absorbent such as clay or sand and place in suitable container for proper disposal.



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### 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 or open flame. Do not store with oxidizing agents or ammonium nitrate.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : Ferrous sulfate heptahydrate (TLV) - 1 mg/m<sup>3</sup>
- Appropriate Engineering Controls** : Local exhaust normally 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, light green liquid; sulfurous odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : >212 Degrees F.
- Melting Point(Freezing point), °C** : <32 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture
- Density, g/mL @ 25 °C** : 1.272-1.292
- Evaporation Rate(Butyl Acetate = 1)** : No information found
- Octanol/Water Partition Coefficient** : No information found
- pH** : <3.0
- 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



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**Hazardous Decomposition Products** : May decompose to cyanuric acid, ammonia, hydrogen cyanide and nitrogen oxides under fire conditions.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : Avoid extremes of heat.  
**Incompatible Materials** : Strong oxidizing agents

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : No LD50 available. 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.  
**Likely Routes of Exposure** : Skin, eyes, inhalation  
**Skin Irritation** : Causes severe skin burns.  
**Eye Irritation** : Causes serious eye damage.  
**Skin Sensitization** : Not listed as a skin sensitizer.  
**Carcinogenic** : None currently known.  
**Chronic Effects** : Specific Target Organ Toxicity, Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.  
**Other Hazards** : None currently known.

### 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

**UN Proper Shipping Name** : Not regulated by DOT in single packages  $\geq$  1,560 gallons. Do not ship by air.  
**Transport Hazard Class** : None  
**UN Identification Number** : None  
**Packaging Group** : None



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**Environmental Hazards** : Ferrous Sulfate Heptahydrate reportable quantity (RQ) = 1,000 pounds; Zinc Sulfate reportable quantity (RQ) = 1,000 pounds  
**Transport in Bulk** : If shipped by ground (DOT) in single package  $\geq$  1,560 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Ferrous Sulfate Heptahydrate, Zinc Sulfate)  
**Special Precautions for Transportation** : No information found  
**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: 0 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 N  
Pressure:  
Fire: N  
Reactive: N

### 16. Other Information

**Data of Preparation/Revision** : 26-February-2018