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#### 1. Identification

: PRO-MATE IRON 5%
: None
: Chelated micronutrient - Iron
: Helena Chemical Company
: 225 Schilling Blvd. Collierville, TN 38017
: 901-761-0050
: CHEMTREC:800-424-9300

### 2. Hazard Identification



Signal Word	: Danger
Skin Irritation	: Corrosive to skin (based on pH).
Eye Irritation	: Corrosive to eyes (based on pH).
Acute Toxicity Oral	: LD50 1,520 mg/kg (ferrous sulfate heptahydrate component).
Acute Toxicity Dermal	: No data available
-	
Hazard Categories	: Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-1/1C
Hazard Statement	: Harmful if swallowed
	May be harmful in contact with skin
	Causes severe skin burns and eye damage
	May be harmful if inhaled

#### **Composition / Information on Ingredients** 3. **CAS Number** Weight % Component Blend of plant nutrients derived from Proprietary 100.00 ferrous sulfate. The chelating agent is citric acid. **GUARANTEED ANALYSIS:** Sulfur (S): 3.00% Iron (Fe): 5.00% 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,

Ingestion	<ul> <li>then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.</li> <li>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.</li> </ul>
Indication of Immediate Medical	: In the event of an adverse response, treatment should be directed toward
Attention and Special Treatment	control of the symptoms.

#### Attention and Special Treatment Needed



## Safety Data Sheet

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Extinguishing Media	: Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical	: Product may emit toxic fumes under fire conditions.
Special Fire Fight Proc	: Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

6.	Accidental Release Measur	es
	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 only needed if misted or dried. Eyewash should be available in work area.
	Emergency Procedures	: Do not contaminate water supplies with spilled product.
	Methods and Materials for Containment and Cleanup	: Contain spilled product and reuse if uncontaminated. If contaminated, absorb with an inert material, such as clay, sand or sawdust. Collect and place in suitable container 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.
Conditions for Safe Storage	Store in original container only. Do not allow water to be introduced into the contents of the container.

## 8. Exposure Controls / Personal Protection

Appropriate Engineering Controls	: Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection only needed if misted or dried. Eyewash should
	be available in work area.

### 9. Physical and Chemical Properties

Odor/Appearance	: Clear colorless to very pale blue liquid.
	: Non-combustible
	: >100 Degrees C.
Melting Point(Freezing point), °C	: Not applicable
Vapor Pressure, mm Hg @ 20 ºC	: Not determined
Vapor Density	: Not determined
Solubility in Water	: Soluble
Molecular Formula	: Not applicable, formulated mixture.
Density, g/mL @ 25 °C	: 1.190-1.220
Evaporation Rate(Butyl Acetate =	: Not determined
1)	
Octanol/Water Partition	: No information found
Coefficient	
pH	: 2.0 to 3.0 (1%)
Flammable Limits (approximate	: Not applicable
volume % in air)	
Auto-ignition Temperature	: Not applicable



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Decomposition temperature : No information found

#### 10. Stability and Reactivity

Chemical Stability	<ul> <li>No information found</li> <li>Stable</li> <li>May produce sulfur dioxide under fire conditions.</li> </ul>
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: None currently known.
Incompatible Materials	: Product may react vigorously with alkaline materials.

#### 11. Toxicological Information

Acute Toxicity (Oral LD50)	: No LD50 available. May be harmful if swallowed.
	: 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, ingestion, inhalation
Skin Irritation	: Causes severe skin burns. (Corrosive based on pH)
Eye Irritation	: Causes serious eye damage. (Corrosive based on pH)
Skin Sensitization	: Not a skin sensitizer.
Carcinogenic	: None currently known.
Chronic Effects	: None currently known.
Other Hazards	: None currently known.

#### 12. Ecological Information

Ecotoxicity	: No information found
Persistence and Degradability	: No information found
<b>Bioaccumulative Potential</b>	: 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 containers =412.3 gallons.</th
Transport Hazard Class	: None
UN Identification Number	: None
Packaging Group	: None
Environmental Hazards	: No information found
	: If shipped in single package >412.3 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Ferrous Sulfate Heptahydrate), 9, PG III "ERG # 171"
Special Precautions for	: No information found
Transportation	



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# 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		Reactivi	ty: 0	
		Rating Level:	(4-Extreme,	3-High,	2-Moderate,	1-Slight,	0-Minimum
S.A.R.A Title III Hazard		U	,	0,		<b>U</b> ,	
Classification (Yes/No)							
, , , , , , , , , , , , , , , , , , ,	Immediate( Acute) Hea	lth: Y					
	Delayed (Chronic) Hea						
	Sudden Release						
	Pressu	ire:					
	F	ire: N					
	Reacti	ve: N					
	Reacti	VG. IN					

#### 16. Other Information

Data of Preparation/Revision : 31-May-2015