



Safety Data Sheet

Report Date 11-Jan-17

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1. Identification

Product Name : HM-1579
Synonyms : None
Product Use : Nutritional
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 : May be harmful if swallowed
Acute Toxicity Dermal : May be harmful in contact with skin

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-1/1A; Corrosivity to Metals-1

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 be corrosive to metals

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from ammonium sulfate, phosphoric acid, urea, sodium octaborate, copper sulfate and zinc EDTA. NOTE: The chelating agent is EDTA (ethylenediaminetetraacetic acid). GUARANTEED ANALYSIS: See label or fertilizer tag for Guaranteed Analysis.	Proprietary	100.00

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, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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.



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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** : No flash point available. Not believed to be combustible. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : May emit toxic and irritating fumes under fire conditions.
- 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** : Dike spilled liquid to prevent spreading to soil, drains, waterways or sewers.
- Methods and Materials for Containment and Cleanup** : Cover spilled liquid with inert absorbent, such as clay or sand. Scoop or shovel up absorbent 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. Corrosive to mild steel and aluminum and it is recommended that it be applied and stored in stainless steel, polypropylene or polyethylene. Aerial applications should not be made due to the potential for product to corrode or discolor aircraft aluminum.
- 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. Corrosive to mild steel and aluminum. Store in stainless steel, polypropylene or polyethylene containers.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL available for mixture.
- Appropriate Engineering Controls** : General and/or local exhaust should be 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, pale green-blue liquid; vitamin like odor.
- Flash Point, °F** : No information found
- Boiling Point, °F** : >212 Degrees F.
- Melting Point(Freezing point), °C** : No information found
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.



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Density, g/mL @ 25 °C : 1.289-1.309
Evaporation Rate(Butyl Acetate = 1) : No information found
Octanol/Water Partition Coefficient : No information found
pH : <2.0
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : No information found
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May emit ammonia gas and phosphoric acid under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid contact with alkaline materials.
Incompatible Materials : Alkaline materials

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available for mixture. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 available for mixture. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available for mixture. May be harmful if inhaled.
Likely Routes of Exposure : Skin, eyes
Skin Irritation : Causes severe skin burns and eye damage.
Eye Irritation : Causes serious eye damage.
Skin Sensitization : No information found
Carcinogenic : No information found
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. (RCRA D002 due to pH <2.0)

14. Transport Information

UN Proper Shipping Name : Corrosive Liquid, Acidic, Inorganic, n.o.s., (contains Phosphoric Acid)



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Transport Hazard Class : Corrosive (8)
UN Identification Number : UN3264
Packaging Group : PG III
Environmental Hazards : Reportable Quantity (RQ), Sulfuric Acid > 2,364 gallons; RQ, Phosphoric Acid >5,694 gallons.
Transport in Bulk : No information found
Special Precautions for Transportation : Use ERG # 154. Do not ship by air; corrosive to aluminum.
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 Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 11-January-2017