



Safety Data Sheet

Report Date 18-Mar-16

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1. Identification

Product Name : TRAFIX ES CAL EIGHT 8% CALCIUM 5-0-0
Synonyms : None
Product Use : Inorganic Metal Salts - Calcium
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 irritation and burns with redness, dermatitis and scarring.
Eye Irritation : Causes severe irritation and burns. May cause permanent damage to eyes.
Acute Toxicity Oral : No data for this mixture. Not classified for Oral Toxicity.
Acute Toxicity Dermal : No data for this mixture. Not classified for Dermal Toxicity.

Hazard Categories : Eye Irritation - 1; Skin Irritation - 1C

Hazard Statement : Causes severe skin burns and eye damage

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Calcium Nitrate	10124-37-5	40-45
Proprietary Acid Blend	Proprietary	5-15
Fulvic Acid Solution	Proprietary	<1
Proprietary Phosphate Compound	Proprietary	<1
Nonhazardous ingredients	Nonhazardous	40-50
GUARANTEED ANALYSIS:		
Total Nitrogen (N): 5.00%		
5.00% Nitrate Nitrogen		
Calcium (Ca): 8.00%		
Derived from Calcium Nitrate.		
Also contains Non-Plant Food		
Ingredients:		
4% Hydroxytricarboxylic salts		

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** : Non-combustible liquid. Use water fog, foam, dry chemical or carbon dioxide extinguishing media.
- Specific Hazards Arising from the Chemical** : Carbon monoxide, an oxidation product, or phosphorous oxide may be evolved at extreme temperatures.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Contain fire fighting waters to prevent contamination of water supplies, lakes, streams or ponds.

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** : Keep spilled product from entering waterways, drains or sewers.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, collect and reuse as labeled. If contaminated, absorb with inert absorbent, such as clay or sand, and place in plastic recovery drums 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 or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No PEL or TLV established for this mixture.
- Appropriate Engineering Controls** : Use with adequate general or local exhaust ventilation.
- 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 liquid with yellow tint.
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : Not determined
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Dispersible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.356-1.404



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Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : <1.0
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not applicable
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : Not normally reactive
Chemical Stability : Stable
Hazardous Decomposition Products : Oxides of carbon, phosphorus, nitrogen and unknown materials.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid extreme heat or freezing temperatures.
Incompatible Materials : Strong oxidizing agents, acids, bases, carbonates, alkali metals, ammonia, hydrazine and reducing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : Ingestion causes severe digestive tract irritation or burns to the mucous membranes, esophagus, etc.
Acute Toxicity (Dermal LD50) : No LD50 available.
Acute Toxicity Inhalation LC50 : Inhalation of dusts may cause severe irritation and burns of nose, throat, upper respiratory tract.
Likely Routes of Exposure : Skin and eyes
Skin Irritation : Causes severe irritation and burns with redness, dermatitis, and scarring.
Eye Irritation : Cause severe irritation and burns. May cause permanent damage to eyes.
Skin Sensitization : Not listed as a sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : Calcium Nitrate: LC50>98.9 mg/L/96-hour (Oncorhynchus mykiss). Proprietary Acid Blend: LC50>100 mg/L/96 hour (Danio rerio).
Persistence and Degradability : No data available
Bioaccumulative Potential : No data available
Mobility in Soil : No data available
Other Adverse Effects : None known

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 : Corrosive Liquid, n.o.s., (Corrosive Acid Blend)
Transport Hazard Class : Corrosive (8)
UN Identification Number : UN1760
Packaging Group : PG III
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : ERG # 154
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 3 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: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 18-March-2016