



Safety Data Sheet

Report Date 26-Aug-16

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1. Identification

Product Name : HELENA FLASH
Synonyms : 3 Lb. Ethephon
Product Use : Cotton Harvest Aid
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 : Direct skin contact can cause chemical burns.
Eye Irritation : Causes irreversible eye damage.
Acute Toxicity Oral : LD50 >5,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >5,000 mg/kg

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-1/1C

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Ethephon [(2-chloroethyl)phosphonic acid]	16672-87-0	27.0
Inert ingredients	Proprietary	73.0

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.

Indication of Immediate Medical Attention and Special Treatment Needed : There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. If ingested, careful gastric lavage is required due to the possibility of stomach or esophageal perforation.

5. Fire Fighting Measures



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- Extinguishing Media** : Will not burn. Use appropriate extinguishing media for material that is supplying fuel to fire.
- Specific Hazards Arising from the Chemical** : May emit hydrogen chloride under fire conditions.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus with full face piece.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Emergency shower and eyewash must be available in work area. Use air-purifying respirator with organic vapor cartridge.
- Emergency Procedures** : Do not allow any material to enter drainage systems or bodies of water.
- Methods and Materials for Containment and Cleanup** : Absorb with an absorbent material, such as clay, sand or Vermiculite. Place contaminated material in appropriate container for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Do not get in eyes or on skin or on clothing. Avoid contact with skin. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.
- Conditions for Safe Storage** : Store in original container and keep tightly closed. Store in a cool, dry place. Do not contaminate water, food, or feed by storage or disposal.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established
- Appropriate Engineering Controls** : Good general ventilation should be sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Emergency shower and eyewash must be available in work area. Use air-purifying respirator with organic vapor cartridge.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear colorless liquid; no appreciable odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : Unknown
- Melting Point(Freezing point), °C** : <-20 Deg. C.
- Vapor Pressure, mm Hg @ 20 °C** : 0.0006 mmHg
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.309-1.339
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : <2.0
- Flammable Limits (approximate volume % in air)** : Not applicable
- Auto-ignition Temperature** : Not determined



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Decomposition temperature : No information found

10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition** : Hydrogen chloride during thermal decomposition. Reaction with alkaline materials causes evolution of ethylene gas.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid temperatures above 335 Degrees F. and $\text{pH} > 3.0$.
- Incompatible Materials** : Oxidizing agents and alkaline materials. Corrosive to iron, mild steel, aluminum and copper.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : $> 5,000$ mg/kg (rat). May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : $> 2,000$ mg/kg. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No LC50 for mixture. May be harmful if inhaled.
- 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 NTP, IARC or OSHA.
- Chronic Effects** : Acute asthma and/or other chronic pulmonary diseases may be aggravated by exposure due to inhalation of vapors or spray mists.
- 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

- UN Proper Shipping Name** : Corrosive Liquid, Acidic, Organic, n.o.s., (Ethepon)
- Transport Hazard Class** : Corrosive (8)
- UN Identification Number** : UN 3265
- Packaging Group** : PG III
- Environmental Hazards** : No information found
- Transport in Bulk** : No information found
- Special Precautions for Transportation** : No information found



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Freight Classification : Pesticides, NOI, Plant Growth Regulator, Other than Poison (NMFC Item 155050, Sub 11, 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: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Registration Number : 5905-595

FIFRA Signal Word : Danger

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes irreversible eye damage.

FIFRA Label Statement : Do not get in eyes, on skin or on clothing.

FIFRA Label Statement : Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using

FIFRA Label Statement : tobacco.

FIFRA Label Statement : Remove and wash contaminated clothing before reuse.

FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 26-August-2016