

Report 11-Mar-15 Date

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Identification

Product Name : HEL-FIRE Synonyms: None

Product Use : Herbicide Activator

Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number : CHEMTREC:800-424-9300

Hazard Identification



Signal Word : Danger

Skin Irritation: Severe irritation; will cause irritation and burns.

Eye Irritation: Strong irritation; burning of the eyes.

Acute Toxicity Oral : Not determined Acute Toxicity Dermal : Not determined

Hazard Categories: Oral/Dermal Toxicity - 4/4; Skin and Eye Corrosion/Irritation - 1A/1;

Inhalation Toxicity - 5

Hazard Statement : Causes severe skin burns and eye damage

Harmful in contact with skin Harmful if swallowed May be harmful if inhaled

Composition / Information on Ingredients

Component **CAS Number** Weight % Aminated phosphoric and carboxylic 90.00 Proprietary acids, sulphurated amides, and spray

deposition aids.

Constituents ineffective as adjuvants Nonhazardous 10.00

First Aid Measures

Eye: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

the eye. Call a poison control center or doctor for treatment advice.

Skin: Remove contaminated clothing. Rinse skin immediately with plenty of water, continuing for 15 to 20 minutes. Call a poison control center or doctor for

treatment advice.

Inhalation: Move person to fresh air. If 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 treatment advice.

Ingestion: Do not induce vomiting. If fully conscious, rinse mouth with water. Never give

anything by mouth to someone who is unconscious or having convulsions. Apply

artificial respiration if necessary. Call a doctor or poison control center

immediately.

Attention and Special Treatment

Indication of Immediate Medical : Aspiration of small amounts during ingestion or vomiting may cause severe burns and severe pulmonary injury to the lungs. Aspiration may also cause

> chemical pneumonitis, which can be fatal. Needed



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Fire Fighting Measures

Extinguishing Media: Use water spray in the form of a fog, dry chemical, foam or carbon dioxide

extinguishing agents.

Specific Hazards Arising from the : May produce oxides of carbon, nitrogen and toxic phosphorous compounds

Chemical under fire conditions.

Special Fire Fight Proc : Avoid excessive water. Wear self-contained breathing apparatus and full

protective clothing. Treat as a liquid chemical type fire where discharges to the

environment are to be controlled as quickly as possible.

Accidental Release Measures

Personal Precautions: Keep unprotected and unnecessary personnel out of spill area. Wash thoroughly

after handling. Do not get in eyes. Avoid contact with skin and clothing.

Splashproof goggles or face shield, chemical-resistant gloves, long pants and **Protective Equipment**

long-sleeved shirt, enclosed boots, impervious apron. Eyewash station and emergency shower should be available nearby. Use NIOSH-approved respirator

if ventilation is inadequate.

Emergency Procedures Contain all spills, keeping material out of sewers and drains by diking.

: For small spills, collect free liquids and place in suitable container for disposal. Methods and Materials for **Containment and Cleanup**

Absorb remaining liquid with an inert material, such as clay or vermiculite.

Sweep up carefully and place in suitable disposal container. Rinse spill area with

water, collect and place in containers with material for disposal.

Handling and Storage

Precautions for Safe Handling: Do not contaminate water, food or feed by storage and handling. Do not

contaminate water sources by run off from cleaning or equipment, disposal of

equipment washwater or spray waste.

Conditions for Safe Storage : Store in original container only. Keep container tightly closed. Do not allow water

to be introduced into the contents of the container. Do not store near heat or

open flames. Do not store with oxidizing agents.

Exposure Controls / Personal Protection

TLV/PEL: Not established for this mixture. TLV for acids is 1 mg/m3.

Appropriate Engineering Controls: Ensure adequate ventilation to maintain airborne concentrations below the TLV. Personal Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, long pants and

long-sleeved shirt, enclosed boots, impervious apron. Eyewash station and

emergency shower should be available nearby.

Physical and Chemical Properties

Odor/Appearance: Clear golden yellow liquid; slight fatty odor.

Flash Point, ⁰F : >200 Degrees F. 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 : Soluble

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.190-1.230 Evaporation Rate(Butyl Acetate = : Not available



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Octanol/Water Partition : No information found

Coefficient

pH : 1.8-2.3 (0.25%); 2.5-3.5 (0.5%)

Flammable Limits (approximate : Not determined

volume % in air)

Auto-ignition Temperature : Not applicable Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity: Hydrogen gas released in reaction with metals.

Chemical Stability: Stable

Hazardous Decomposition : Thermal decomposition in the presence of air produces products including

Products carbon dioxide, carbon monoxide, oxides of nitrogen, phosphorus and sulfur.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid bases, strong oxidizing and reducing agents. Avoid contact with many

metals including aluminum.

Incompatible Materials: Avoid bases, strong oxidizing and reducing agents. Avoid contact with many

metals, including aluminum.

11. Toxicological Information

Acute Toxicity (Oral LD50) : Not determined
Acute Toxicity (Dermal LD50) : Not determined
Acute Toxicity Inhalation LC50 : Not determined
Likely Routes of Exposure : Skin, eyes, inhalation

Skin Irritation: Severe irritation; will cause irritation and burns to skin.

Eye Irritation: Strong irritation; will cause burning to eyes. **Skin Sensitization**: May aggravate existing skin disease.

Carcinogenic: None currently known.

Chronic Effects: Chronic effects due to severe burning/irritation to skin and eyes.

Other Hazards : CA PROP 65: This product contains the following chemicals known to the state

of CA to cause cancer, birth defects and reproductive harm - Dioxane (trace

amounts); Ethylene Oxide (trace amounts).

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



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UN Proper Shipping Name : Not regulated domestically (highway) if shipped or packaged in containers such

as stainless steel or plastic (49 CFR 173.154(d)). Regulated by air (IATA) and vessel (IMDG) as Corrosive Liquid, n.o.s. (contains Monocarbamide dihydrogen

sulphate)

Transport Hazard Class : Corrosive (8) - IATA/IMDG
UN Identification Number : UN1760 - IATA/IMDG
Packaging Group : PG III - IATA/IMDG

Environmental Hazards : No information found Transport in Bulk : No information found

Special Precautions for: Non-regulated by US ground per 49 CFR 173.154(d).

Transportation

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: 2

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: Y

16. Other Information

Data of Preparation/Revision : 11-March-2015