18-JUL-2007 10:48:48 Helena Chemical Company PH: 901-761-0050 Page 1 Of 5 CHEMTREC: 800-424-9300 Material Safety Data Sheet Effective Date: 18-JUL-2007 Product: FLASH _____ I. IDENTIFICATION _____ Chemical Name: (2-Chloroethyl) phosphonic acid Chemical Family: Ethylene generator Formula: Not applicable, formulated mixture. Synonyms: 3 Lb. Ethephon CAS Number: 16672-87-0 (ethephon) EPA Number: 66330-363-5905 _____ II. PHYSICAL DATA _____ Boiling Point: Unknown Freezing Point: <-20 Deg. C. Spec Gravity: 1.31 gms/cc Vapor Pressure: 0.0006 mm/Hg Vapor Density: Not determined Solubility: 100% Volatiles: <5% Evaporation: Not determined Melting Point: Not applicable Appearance: Pale yellow liquid with no appreciable odor. _____ III. INGREDIENTS _____ CAS Number Percent TLV Hazard Material -----16672-87-0 27.00 N/E Corrosive; skin & eye irritant. Ethephon Inert ingredients, including 73.00 N/E Skin & eye organic acids. irritant. _____ IV. FIRE AND EXPLOSION HAZARD _____ Flash Point: Non-combustible Autoignition Temp: Not determined Flammable Limit: Not applicable Extinguishing Media: Will not burn. Use appropriate extinguishing media for material that is supplying fuel to fire. Special Fire Fight Proc: Wear self-contained breathing apparatus with full face piece. Fire and Expl Hazard: May emit hydrogen chloride under fire conditions.

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_____ _____ V. HEALTH HAZARD _____ Carcinogen Information: Not listed by NTP, IARC or OSHA. ACUTE EFFECTS OF OVER EXPOSURE _____ Swallowing: Harmful if swallowed. Corrosive, may cause severe and permanent damage to the mouth, throat and stomach. Symptoms of overexposure

may include severe irritation of the mouth, throat, esophagus and stomach with severe abdominal and chest pain.

- Skin Absorption: Substance is harmful if absorbed through the skin.
 - Inhalation: Spray mist concentrations may be harmful. High concentrations may be fatal. Symptoms of overexposure may include choking, coughing and burning of the throat.
 - Skin contact: Direct skin contact can cause chemical burns. Symptoms include redness and swelling. Large exposures may be fatal.
 - Eye Contact: Corrosive. This material will cause eye burns and permanent tissue damage. Symptoms include tearing, redness, burning and swelling.
- Chronic Effects: Acute asthma and/or other chronic pulmonary diseases may be aggravated by exposure due to inhalation of vapors or spray mists. Other Hazard: Existing skin lesions and/or skin sensitivities

may be irritated by exposure.

EMERGENCY AND FIRST AID PROCEDURES

_____ Swallowing: Do not induce vomiting. Promptly drink a large amount of milk, egg whites, gelatin solution or, if these are not available, large amounts of water. Do not drink any alcohol. Call a physician immediately. Skin: Immediately wash skin with plenty of soap and

- water. Seek medical attention if irritation persists.
- Inhalation: Move to fresh air. If not breathing, give artificial respiration. Administer oxygen if necessary. Get medical attention.
 - Eyes: Hold eyelids open and flush with a gentle stream of water for at least 15 minutes. Seek medical attention, preferably with an ophthalmologist.

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_____ Notes to Physician: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Victims of overexposure by inhalation should be kept under medical observation for up to 72 hours for delayed onset of pulmonary edema. For a victim of overexposure by ingestion, careful gastric lavage is required due to the possibility of stomach or esophageal perforation. Although this material is an acid, use of alkaline substances to neutralize is contraindicated. _____ VI. REACTIVITY _____ Stability: Stable Conditions to Avoid: Avoid temperatures above 335 Degrees F. and pH

>3.0. Polymerization: Will Not Occur Conditions to Avoid: None currently known. Incompatibility material: Oxidizing agents and alkaline materials. Corrosive to iron, mild steel, aluminum and copper. Hazardous Combustion: Hydrogen chloride during thermal decomposition. Reaction with alkaline materials causes evolution of ethylene gas.

VII. SPILL OR LEAK PROCEDURES

VIII. SPECIAL PROTECTION INFORMATION Respiration: Use NIOSH-approved air-purifying respirator with organic vapor cartridge. Ventilation: Good general ventilation should be sufficient to control airborne levels. Gloves: Waterproof gloves.

Helena Chemical Company 18-JUL-2007 10:48:48 PH: 901-761-0050 Page 4 Of 5 CHEMTREC: 800-424-9300 Material Safety Data Sheet Effective Date: 18-JUL-2007 Product: FLASH _____ Eyes: Safety goggles. Other: Emergency shower, eyewash station, long-sleeved shirt and long pants, shoes plus socks. _____ IX. SPECIAL PRECAUTIONS _____ Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, ponds or drains. Store in a tightly closed container. Other precaution: Chemical-resistant apron or coveralls should be used when mixing, loading or cleaning equipment. This mixture has a pH of 1.7. If disposal is necessary, handle as a D002 hazardous waste for corrosivity. _____ X. SHIPPING INFORMATION _____ Shipping name: Corrosive Liquid, Acidic, Organic, n.o.s. (Ethephon), 8, UN3265, PG III "ERG # 153" Hazard Class: Corrosive (8) Identification No: UN 3265 Labels Required: Corrosive (8) Placarding: Corrosive (8) Freight Class: Plant Growth Regulator, Modifier or Inhibitor, Liquid, N.O.I. (NMFC Item 50320, Class 60) Chemical Name Equivalent R.Q. _____ -----Not applicable Not applicable _____ XI. GENERAL PRODUCT INFORMATION _____ National Fire Protection Association Rating: (Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum Health: 2 Fire: 1 Reactivity: 0 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

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