

Report 13-Apr-15 Date

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Identification

Product Name: BUFFER XTRA STRENGTH

Synonyms : Buffer XS

Product Use: Buffering/Conditioning Agent for Pesticide Sprays

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: Causes severe skin burns. Eye Irritation: Causes serious eye damage.

Acute Toxicity Oral : LD50 (rat) 1,500 mg/kg (phosphate ester) Acute Toxicity Dermal: LD50 (rabbit) 2,500 mg/kg (phosphate ester)

Hazard Categories: Oral Toxicity - 4; Dermal/Inhalation Toxicity - 5/5; Eye Irritation - 1; Skin

Irritation - 1B

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin Causes serious eye damage

Causes severe skin burns and eye damage

May be harmful if inhaled

Composition / Information on Ingredients

CAS Number Weight % Component Proprietary blend of Alkyl Aryl Polyethoxy Proprietary 50.00 Ethanol Phosphates and Organic Phosphatic Acids Components ineffective as Buffer or Proprietary 50.00 Conditioner

First Aid Measures

Eye: Rinse cautiously 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 treatment advice.

Skin: Take off contaminated clothing immediately. Rinse skin with water. Get medical

attention if irritation develops or persists. Launder contaminated clothing before

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: Call a poison control center or doctor immediately. Rinse mouth. Do not induce

vomiting. Do not give anything by mouth to an unconscious person.

Indication of Immediate Medical: Treat symptomatically. **Attention and Special Treatment**

Needed



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5. Fire Fighting Measures

Extinguishing Media: Use alcohol foam, dry chemical, carbon dioxide or water to extinguish fires.

Specific Hazards Arising from the : May produce hazardous fumes or hazardous decomposition products under

Chemical 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. Use appropriate

protective equipment.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Eyewash station and emergency shower must be available in work area. Use NIOSH-approved respirator with acid gas cartridge if TLV is

exceeded.

Emergency Procedures : Isolate spill area.

Methods and Materials for : Cover the spill with an absorbent, such as clay, sand or sawdust. Collect and

Containment and Cleanup place in suitable chemical waste containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling: Keep out of reach of children. Keep container tightly closed. Do not allow water

to be introduced into the contents of this container. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash

waters or spray waste.

Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not

store with oxidizing agents.

8. Exposure Controls / Personal Protection

TLV/PEL: 3 mg/m3 (phosphoric acid)

Appropriate Engineering Controls : Local exhaust sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Eyewash station and emergency shower must be available in work area. Use NIOSH-approved respirator with acid gas cartridge if TLV is

exceeded.

9. Physical and Chemical Properties

Odor/Appearance: Clear, light yellow liquid; surfactant odor.

Flash Point, °F : >200 Degrees F.

Boiling Point, °F : >200 Degrees F.

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 : 1.175-1.190

Evaporation Rate(Butyl Acetate = : No information found

1)

Octanol/Water Partition : No information found

Coefficient

pH : 1.4



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Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature : Not determined

Decomposition temperature: No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition : When heated to decomposition, product will produce oxides of phosphorus.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known.

Incompatible Materials: Do not mix with alkali, cyanides, sulfides, aluminum, magnesium, zinc and

chlorine releases.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 1,500 mg/kg (rat) for phosphate ester. Harmful if swallowed.

Acute Toxicity (Dermal LD50): 2,500 mg/kg (rabbit) for phosphate ester. May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : No inhalation toxicity data. May cause respiratory irritation.

Likely Routes of Exposure : Eyes, skin, ingestion

Skin Irritation: Causes severe skin burns. Eye Irritation : Causes serious eye damage.

Skin Sensitization: Not a skin sensitizer.

Carcinogenic: May contain residual (<100 ppm) concentrations of ethylene oxide (causes

tumors in lab animals).

Chronic Effects: Repeated skin contact may cause a persistent irritation or dermatitis.

Other Hazards : CA Prop 65 Warning: This product contains chemicals known to the State of

California to cause cancer and birth defects or other reproductive harm.

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, n.o.s., (contains phosphoric acid)

Transport Hazard Class : Class 8 (Corrosive)

UN Identification Number: UN1760 Packaging Group : PG III

Environmental Hazards : No information found



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Transport in Bulk : No information found Special Precautions for : No information found

Transportation

Freight Classification: Adhesives, Adjuvants, Spreaders or Stickers, N.O.I. (NMFC Item 42652, Class

60)

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 N
Pressure:
Fire: N

Reactive: N

16. Other Information

Data of Preparation/Revision: 13-April-2015