# **MATERIAL SAFETY DATA SHEET**



# 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name ZELEC LA-2

Manufacturer Stepan Company

22 West Frontage Road Northfield, IL 60093 USA

Telephone Numbers - 24 Hour Emergency Assistance

 Medical
 800-228-5635

 Chemtrec
 800-424-9300

 Chemtrec Int'l
 703-527-3887

Telephone Numbers - General Assistance

General (847) 446-7500

Product Class Phosphate ester

Product Number 2088

# 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent
_Low acid alcohol phosphate	NJ1839-2088P	100 %

# 3 HAZARDS IDENTIFICATION

# **Emergency Overview**

Clear liquid, pale yellow color.

**Danger!** Corrosive

May be corrosive to the skin and eyes.

#### **Health Effects: Eyes**

Contact can cause moderate to severe irritation and possible injury to the eyes. This product may be corrosive to eyes.

#### **Health Effects: Skin**

This product may be corrosive to the skin.

#### **Health Effects: Inhalation**

Inhalation of vapors or mists of the product may be irritating to the respiratory system.

#### **Health Effects: Ingestion**

This product may be harmful if it is swallowed.

Document Number6023Revision Date09/05/2006Page 1 of 5Product NameZELEC LA-2Version12

# 4 FIRST AID MEASURES

## **Eyes**

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention or advice.

#### Skin

For skin contact flush with large amounts of water. If irritation persists, get medical attention. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse.

### Inhalation

If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

#### Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

## 5 FIRE FIGHTING MEASURES

**Flash Point** (> 93.9 °C), > 201 F PMCC

### **Extinguishing Media**

Dry chemical, foam, carbon dioxide, water fog.

### Fire Fighting Equipment / Instructions

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### 6 ACCIDENTAL RELEASE MEASURES

### **SPILL AND LEAK PROCEDURES**

**Emergency Action:** 

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Wear appropriate personal protective equipment during cleanup.Do not touch or walk through spilled material.Small Spills:Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.Large Spills:Dike ahead of liquid spill for later disposal.Prevent entry into waterways, sewers, basements or confined areas.

Surfaces may become slippery after spillage.

# 7 HANDLING & STORAGE

### **Handling Procedures**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

### **Storage Procedures**

Keep the container tightly closed and in a cool, well-ventilated place. Avoid freezing or excessive heat.

Document Number6023Revision Date09/05/2006Page 2 of 5Product NameZELEC LA-2Version12

# 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Engineering Controls**

Use with adequate ventilation.Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

# Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

### Personal Protective Equipment: Skin

Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Use impervious gloves.

## **Personal Protective Equipment: Respiratory**

If vapors are present or irritation is experienced, NIOSH approved respiratory protection for acidic vapors should be worn.

# **Personal Protective Equipment: General**

Eye wash fountain and emergency showers are recommended.

# 9 PHYSICAL & CHEMICAL PROPERTIES

Flash Point (> 93.9 °C), > 201 F PMCC

**Boiling Point** (392 °F), 200 C

Specific Gravity (0.998 g/ml), 8.3 lb/gal @ 25 C

Vapor Pressure Not Determined

Vapor Density Estimated heavier than air.

Viscosity 135 cps @ 25 C

**Evaporation Rate** Estimated slower than ethyl ether.

**RVOC** < 0.01 %

**pH Value** 2.5 - 5.5 @ 10% (1:1 IPA/Water)

Freezing Point  $(< -43.3 \, ^{\circ}\text{C}), < -46 \, \text{F}$ 

#### **Appearance and Odor**

Clear liquid, pale yellow color.

# 10 STABILITY & REACTIVITY

# Chemical Stability

Stable under normal conditions.

#### **Conditions to Avoid**

Avoid strong oxidizing agents.

#### **Hazardous Decomposition**

Upon decomposition, this product may emit phosphorous oxides.

### **Hazardous Polymerization**

Will not occur.

Document Number6023Revision Date09/05/2006Page 3 of 5Product NameZELEC LA-2Version12

# 11 TOXICOLOGICAL INFORMATION

## Carcinogenicity

Not listed as carcinogenic according to IARC, NTP or OSHA.

## 12 ECOLOGICAL INFORMATION

## **Ecotoxicity**

No data available on finished product.

#### **Environmental Fate**

This product class is readily biodegradable.

# 13 DISPOSAL CONSIDERATIONS

#### **Disposal Instructions**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

# 14 TRANSPORT INFORMATION

**DOT Proper Shipping Name** Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

# 15 REGULATORY INFORMATION

Ingredient Name	CAS Number	Percent
_1,4-Dioxane	123-91-1	940 ppm max
_Ethylene oxide	75-21-8	200 ppm max
_Low acid alcohol phosphate	NJ1839-2088P	100 %

#### **State Regulations**

This product may contain the following ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm:1,4-Dioxane (CAS RN: 123-91-1)Ethylene Oxide (CAS RN: 75-21-8)

#### **Inventories**

All components of this product are listed on the following inventories:U.S.A.(TSCA), Europe(EINECS/ELINCS/Polymer/NLP),

There is no calculable reportable quantity (RQ) for this product.

# **16 OTHER INFORMATION**

#### **Disclaimer**

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Document Number6023Revision Date09/05/2006Page 4 of 5Product NameZELEC LA-2Version12

HAZARD RATINGS HMIS NFPA
Health 3 3
Flammability 1 1
Reactivity 0 0
PPE X

Completed On 9/5/2006 Replaces Sheet Dated 03/14/2006

Completed By Product Safety & Compliance