



administer artificial respiration. Get medical attention.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Get medical attention immediately.

## **SECTION 5 – FIREFIGHTING MEASURES**

Extinguishing Media: Use water, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>).

Special Firefighting Procedures/Precautions: Firefighters should wear NIOSH approved self-contained breathing apparatus. Responders should wear protective clothing to prevent skin contact. Move containers from fire area. If unable to move, cool sealed containers with water.

Unusual Fire and Explosion Information: Emits toxic vapors under fire conditions. Vapors may travel to source of ignition and flash back. Vapors are heavier than air and will collect in low or confined areas. Containers may explode when heated.

Environmental Note: N/A.

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Contain and recover. Prevent from entering sewers and waterways. Clean-up personnel should wear protective equipment to prevent contact.

## **SECTION 7 – HANDLING AND STORAGE**

Containers should be grounded and/or bonded when material is transferred. Store in a cool, dry place. Keep away from heat, sparks, and flames. Do not store with oxidizers.

## **SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Respiratory Protection: NIOSH approved respiratory protection for organic vapors.

Ventilation: Utilize local exhaust to control vapors. Do not rely on general exhaust.

Protective Gloves: Utilize impervious chemical gloves such as PVC, nitrile, or butyl rubber.

Eye Protection: Chemical goggles and face shield.

Other Protective Equipment: Wear additional protective clothing to prevent skin contact. This may include aprons, chemical resistant boots, and chemical resistant suits.

Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 112°C @ 300 mm Hg

Melting Point: N.E.

Volatility/Vol (%): N.E.

Vapor Pressure (mm Hg): N.E.

|  |                              |
|--|------------------------------|
| Vapor Density (Air = 1):                 | N.E.                         |
| Solubility in H <sub>2</sub> O:          | Soluble.                     |
| Appearance/Odor:                         | Clear, colorless liquid.     |
| Specific Gravity (H <sub>2</sub> O = 1): | 0.818                        |
| Evap. Rate (Butyl Acetate = 1):          | N.E.                         |
| Flash Point:                             | 82°F (27.8°C) PMCC, ASTM D93 |
| Lower Explosive Limit:                   | N.E.                         |
| Upper Explosive Limit:                   | N.E.                         |
| Autoignition Temperature:                | N.E.                         |

## **SECTION 10 – STABILITY AND REACTIVITY**

|                           |  |
|---------------------------|--|
| Chemical Stability:       | Normally stable. May become unstable at elevated temperatures and pressures. |
| Conditions to Avoid:      | N/A.   |
| Incompatible Materials:   | Strong oxidizers.  |
| Decomposition Products:   | Oxides of carbon and boron oxide.  |
| Hazardous Polymerization: | Will not occur.  |

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

|                            |                     |                     |       |       |                |    |
|----------------------------|---------------------|---------------------|-------|-------|----------------|----|
| ACGIH                      | Triisopropyl borate | TLV:                | N.E.  | STEL: | N.E.           |    |
| OSHA                       | Triisopropyl borate | PEL:                | N.E.  | STEL: | N.E.           |    |
| Irritation:                | Eyes:               | 100 mg MLD (rabbit) |       |       | 14KTAK-69364   |    |
| Ingestion:                 | LD50:               | 2500 mg/kg (mouse)  |       |       | 14KTAK-69364   |    |
| Intravenous:               | LD50:               | 100 mg/kg (mouse)   |       |       | CSLNX NX#00382 |    |
| Carcinogenicity listed by: | NTP:                | No                  | IARC: | No    | OSHA:          | No |

## **SECTION 12 – ECOLOGICAL INFORMATION**

No data available.

## **SECTION 13 – DISPOSAL INFORMATION**

Place in a city, state, or federally permitted disposal facility. Handle in accordance with all applicable regulations.

## **SECTION 14 – TRANSPORTATION INFORMATION**

DOT Shipping Name: Triisopropyl borate, 3, UN 2616, PG III.

## **SECTION 15 – REGULATORY INFORMATION**

**U.S. Regulations:**

TSCA: All components are listed on the TSCA inventory.

SARA TITLE III

Acute: Yes  
 Chronic: No  
 Fire: Yes  
 Reactivity: No  
 Pressure: No

TSCA 12(b) Export Notification: Not Listed

California Proposition 65: Not Listed

**European Regulations:**

EINECS Number: Triisopropyl borate: 226-529-9

**Canadian Regulations:**

Triisopropyl borate is listed on the NDSL.

**Japanese Regulations:**

Triisopropyl borate is listed on the ENCS.

ENCS Number: Triisopropyl borate: 2-2101X (unlisted chemical name)

**Australian Regulations:**

Triisopropyl borate is not listed on the AICS.

**Korean Regulations:**

Triisopropyl borate is not listed on the ECL.

ECL Number: Triisopropyl borate: Not Listed

**SECTION 16 – OTHER INFORMATION**

**PPE Codes (NPCA-HMIS)**

|  |  |
|--|--|
| <b>A</b> – Glasses                                 | <b>G</b> – Glasses, Gloves, Vapor Respirator                 |
| <b>B</b> – Glasses, Gloves                         | <b>H</b> – Goggles, Gloves, Apron, Vapor Respirator          |
| <b>C</b> – Glasses, Gloves, Apron                  | <b>I</b> – Glasses, Gloves, Dust/Vapor Respirator            |
| <b>D</b> – Faceshield, Gloves, Apron               | <b>J</b> – Goggles, Gloves, Apron, Dust/Vapor Respirator     |
| <b>E</b> – Glasses, Gloves, Dustmask               | <b>K</b> – Supplied Air, Gloves, Full Protective Suit, Boots |
| <b>F</b> – Glasses, Gloves, Apron, Dust Respirator |  |

**Disclaimer**

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