

Acute Effects:

Inhalation: May cause irritation to the upper respiratory tract, pneumonitis, nasopharyngitis, lung fibrosis, dyspnea, weight loss, inflammation and edema of the larynx and bronchi.

Ingestion: May cause boron poisoning.

Skin: May cause irritation, contact dermatitis and non-healing ulcerations at the site of injury.

Eye: May cause irritation, conjunctivitis and corneal burns.

Chronic Effects:

Inhalation: May cause pulmonary granulomas and berylliosis.

Ingestion: No chronic health effects recorded.

Skin: May cause dermatitis and chronic skin ulcers.

Eye: May cause visual impairment.

Routes of Entry: Inhalation, Skin, Eyes, and Ingestion

Medical Conditions Generally Aggravated by Exposure: Pre-existing lung and skin disorders.

Target Organs: May affect the lungs, thorax, respiration, liver, mucous membranes, skin and eyes.

Carcinogenicity: NTP: Yes **IARC Monographs:** Yes **OSHA Regulated:** Yes

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Keep warm and quiet, give oxygen if breathing is difficult and seek medical attention immediately.

INGESTION: If conscious, give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never give anything by mouth or induce vomiting on an unconscious person.

SKIN: Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, seek medical attention immediately.

EYES: Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention immediately.

VI REACTIVITY DATA

Stability: Stable

Incompatibilities: Water, strong acids and bases.

Conditions to Avoid: None

Hazardous Decomposition or Byproducts: Beryllium oxide and H₃B.

Hazardous Polymerization: Will not occur

VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material Is Released or Spilled: Wear appropriate respiratory and protective equipment specified in Section VIII-Special Protection Information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Waste Disposal Method: Observe all Federal, State & Local regulations.

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Wear a NIOSH-approved dust, mist, fume cartridge respirator.

Ventilation: Use local exhaust to maintain concentration at or below the PEL, TLV. Handle in a controlled atmosphere. General exhaust is not recommended

Protective Gloves: Rubber gloves.

Eye Protection: Safety glasses

Other Protective Equipment/Clothing: Protective gear suitable to prevent contamination.

IX ADDITIONAL COMMENTS

Precautions to Be Taken in Handling and Storage: Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling.

Work Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing with compressed air.

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulation and the Toxic Substances Control Act (TSCA), these materials should only be handled by, or under the direct supervision of, a "technically qualified individual", as defined in 40 CFR 710.2(aa).

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