



### 3. PHYSICAL DATA

**Physical state:** Liquid  
**Specific gravity:** N/AP  
**Boiling point:** N/AV  
**Melting point:** N/AV  
**Appearance and Odour:** N/AV  
**Odour Threshold (ppm):** N/AV  
**Vapour Density:** N/AV  
**Vapour Pressure (mmHg):** Negligible  
**pH:** N/AV  
**Evaporation Rate:** N/AV  
**Coefficient of Water/Oil Distribution:** N/AV

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### 4. FIRE AND EXPLOSION DATA

**Flammability under which conditions:** none  
**Means of Extinction:** Does not burn. Use extinguishing media appropriate to the surrounding fire conditions  
**Flashpoint:** N/AP  
**Autoignition Temperature:** N/AP  
**Hazardous Combustion Products:** N/AV  
**Upper Flammable Limit (% by volume):** N/AV  
**Lower Flammable Limit (% by volume):** N/AV  
**Explosion Data – Sensitivity to Impact:** N/AV  
**Explosion Data- Sensitivity to Static Discharge:** N/AV

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### 5. REACTIVITY DATA

**Chemical Stability:** Normally stable.  
**Incompatibility with Other Substances:** Very slightly reactive with metals. Very reactive with strong alkaline substances like caustic soda, producing ammonia gas and heat with the possibility of the mixture boiling over and splashing. Slightly corrosive to copper, iron and steel. Incompatible with copper alloys. Corrosive to ferrous metals and alloys.  
**Hazardous Decomposition Products:** Combustion can yield oxides of sulfur when heated above 537°C (1000°F). During extremely high temperature fire conditions, the product may decompose to release NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub> or CN.

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## 6. TOXICOLOGICAL PROPERTIES

### Routes of Entry

**Skin Contact:** YES **Skin Absorption:** no **Eye Contact:** YES **Inhalation:** no **Ingestion:** no

**Effects of Acute Exposure to Product:** May irritate eyes and skin upon prolonged or repeated contact. Over-exposure by inhalation may cause temporary respiratory tract irritation. Ingestion may produce irritation of the gastrointestinal tract, characterized by burning and diarrhea.

**Effects of Chronic Exposure to Product:** Not known

**Exposure Limits:** N/AV for mixture.

**Irritancy:** YES; contact with eyes / skin

**Sensitization:** N/AV

**Carcinogenicity:** N/AV

**Reproductive Toxicity:** Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects.

**Teratogenicity:** N/AV

**Mutagenicity:** N/AV

**Synergistic Products:** None known.

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## 7. PREVENTIVE MEASURES

### Personal Protective Equipment

**Gloves:** Y    **Respirator:** N    **Eye:** Y    **Footwear:** N    **Clothing:** Y    **Other**

If Y above specify

**Gloves:** Rubber, Nitrile

**Eye:** Dust or splash-proof chemical safety goggles or face shield

**Clothing:** Rubber or Nitrile gloves, long sleeve shirts and pants or coveralls, boots, and/or other resistant protective clothing. Have a safety eyewash fountain readily available in the work area.

**Engineering Controls:** Use local exhaust ventilation to control vapours and mist. Supply sufficient replacement air to make up for air removed by exhaust system, process of personnel enclosure and control of process conditions.

**Leak and Spill Procedures:** Restrict access to area until completion of clean-up. Provide adequate personal protective equipment and ensure clean-up is conducted by trained personnel only. Ventilate area. Remove any reactive chemicals from the area.

**Waste Disposal:** According to local, provincial and federal government requirements

**Handling Procedures and Equipment:** Avoid inhalation and eye contact. Wear rubber or Nitrile gloves, chemical splash goggles and dust mask. Do not mix with incompatible materials. (see Section 5)

**Storage Requirements:** Keep in a cool, dry and well-ventilated area. Store away from incompatible materials

**Special Shipping Information:** Normal shipping procedures    **PIN:** N/AV

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**8. FIRST AID MEASURES**

**Inhalation:** Remove source of contamination or have victim move to fresh air. Obtain medical advice immediately

**Ingestion:** If irritation or discomfort occurs, obtain medical advice immediately. Have victim rinse mouth thoroughly with water. Have victim drink 240 to 300 mL (8-10 oz.) of water and induce vomiting, rinse mouth with and repeat administration of water. Obtain medical attention immediately.

**Skin Contact:** Flush with lukewarm, gently flowing water until the chemical is removed. Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts, etc.). Obtain medical attention if pain or irritation persists. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

**Eye Contact:** Do not let victim rub eyes. Immediately flush eye(s) with lukewarm, gently running water for at least 20 minutes, while holding the eyelid(s) open. If irritation persists, obtain medical advice.

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**9. PREPARATION INFORMATION**

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**WHIMIS CLASSIFICATION**



Class D-2 Poisonous and Infectious Material (material causing other toxic effects)



Class E Corrosive Material

**Disclaimer:**

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