

5. FIRE AND EXPLOSION DATA (Cont.)**Special Fire Fighting Procedures:**

This product is a strong oxidizer. Use ONLY water in the event of a fire or a violent reaction may result by contamination. Wear self-contained breathing apparatus.

Unusual Hazard Information:

Contamination with organics, acids, alkalis, and strong reducing agents will result in fire or rapid decomposition. Spontaneous decomposition temperature for this product is 350°F. In large fires fueled by other materials, the product may smolder for prolonged periods emitting dense black smoke.

6. HEALTH HAZARD INFORMATION

This section describes the nature of the hazardous effects resulting from exposure to this product.

Routes of Exposure:

- Ingestion:** Highly toxic by ingestion. May cause severe inflammation and erosion to the lining of the esophagus and stomach. Promptly induces vomiting.
- Eye Contact:** Mild to moderate exposure to dust causes irritation of the eyes. Severe exposure can cause permanent (irreversible) damage.
- Skin Contact:** Mild to moderate exposure to dust may irritate the skin. Greater exposure can cause severe irritation.
- Inhalation:** Mild to moderate exposure to dust causes irritation to the mucous membranes of the respiratory passages (nasal and throat).

Effects of Overexposure:

- Acute:** Ingestion may result in erosion of the esophagus and stomach. Vomiting, gastric bleeding and possible circulatory collapse. Exposure may cause temporary or permanent tissue damage to skin, eyes, and respiratory passages.
- Chronic:** Prolonged and intensive exposure may result in tissue damage to body surfaces unless promptly treated.

Emergency and First Aid Procedures:

- Eyes:** IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of entire eye surface. SEEK MEDICAL ATTENTION.
- Skin:** Wash with plenty of soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. Footwear should be decontaminated before reuse. Seek medical attention if symptoms persist.
- Inhalation:** Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. SEEK MEDICAL ATTENTION.
- Ingestion:** NEVER give anything by mouth to an unconscious person. Drink large amounts of water. DO NOT induce vomiting. Call a physician immediately!

7. REACTIVITY DATA**Conditions contributing to instability:**

Contamination with flammables, organics may cause fire or explosion. Acids will release chlorine and bromine gas.

Incompatibility (Materials to avoid):

Acids, flammables, organic materials, readily oxidizable materials and strong reducing agents.

Hazardous decomposition or byproducts:

Chlorine gas, hydrogen bromide, bromine and hydrogen chloride.

Hazardous polymerization:

This product is not known to polymerize.

8. SPILL OR LEAK PROCEDURES (DEVELOP SPILL PLAN)**Neutralizing Chemicals:**

Sodium sulfite, sodium bisulfite or sodium metabisulfite.

Steps to be Taken if Material is Released and/or Spilled:

Wear appropriate protective gear: rubber gloves and boots. Chemical splash goggles and breathing apparatus if necessary. Avoid contact with clothing--fire may result.

Dilute spill area with large quantities of water, at least 100 gallons of water per pound of material. Avoid contact with resulting solution. Neutralize with sodium sulfite, sodium bisulfite or sodium metabisulfite. Collected neutralized solution should be disposed of through sewage treatment plant. Prior approval from plant personnel as well as Local, State and Federal environmental agencies should be obtained. File environmental spill notifications if necessary.

Waste Disposal Methods:

DO NOT dispose of material in dry form in waste container--fire may result. Proceed with spill procedure as outlined above.

Additional Precautions:

Do not attempt to recover solid material. Do not dispose of material in waste container. Do not reuse empty container, but place in trash collection.

9. INDUSTRIAL HYGIENE CONTROL MEASURES**Ventilation Requirements:**

Work in well ventilated areas. Storage area should be well ventilated.

Specific Personal Protective Equipment:

Respiratory protection is not required under normal use, however when necessary, use NIOSH/MSHA approved respirator following manufacturer's recommendations. NIOSH approved dust mask is essential where dusting may occur.

Eye Protection: Chemical safety glasses should be worn.

Protective Gloves: Gloves should be worn. Rubber or other chemically resistant materials are recommended as suitable material.

Other Clothing and Equipment: Protective clothing should be worn so as to minimize skin contact. Avoid contact with clothing. Fire may result from contact of dry material with cloth or flammables.