Material Safety Data Sheet
Sodium bromide

Section 1 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white crystalline powder.

Caution! May cause eye, skin, and respiratory tract irritation. May cause central nervous system depression. Hygroscopic (absorbs moisture from the air).

Target Organs: Central nervous system.

Potential Health Effects
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.
Inhalation: May cause respiratory tract irritation. May cause effects similar to those described for ingestion.
Chronic: May cause fetal effects. Chronic ingestion may cause bromism characterized by disturbances of the central nervous system, skin and digestive tract. Adverse reproductive effects have been reported in animals. May cause incoordination and mental disturbances.

Section 2 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treatment includes hydration, mild diuresis, and possible hemodialysis. Consider the use of ammonium chloride in divided doses with a diuretic.

Section 3 - Personal Protection

Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 4 - Physical and Chemical Properties

**Physical State:** Crystalline powder  
**Appearance:** white  
**Odor:** not available  
**pH:** 5-8.8 (5% aq soln)  
**Boiling Point:** 1390 deg C @ 760 mm Hg  
**Freezing/Melting Point:** 755 deg C  
**Decomposition Temperature:** 800 deg C  
**Solubility:** 95g/100 ml water (25°C)

### Section 5 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Dust generation, moisture.  
**Incompatibilities with Other Materials:** Bromine trifluoride, strong acids.  
**Hazardous Decomposition Products:** Hydrogen bromide, sodium oxide, bromine fumes.  
**Hazardous Polymerization:** Has not been reported.