



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

SODIUM FLUORIDE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Sodium Monofluoride

CAS #: 7681-49-4

DOT Hazard Class: Sodium Fluoride, Solid
UN 1690, Class 6.1, PG III, Toxic

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Sodium Fluoride 99% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless white granules or powder. Poison, irritation, may be fatal if ingested or inhaled. Keep away from strong acids.

POTENTIAL HEALTH EFFECTS:

Eyes & Skin: Severe irritation or burns.

Inhalation: Is harmful and may be fatal. Nausea, vomiting, difficult breathing, severe respiratory irritation.

Ingestion: Is harmful and may be fatal. Headache, nausea, vomiting, gastrointestinal irritation, convulsions, burns to the mouth, throat and stomach can occur.

Chronic Effects: May cause fluorosis, may be absorbed through the skin and produce weight loss, brittleness of bones, anemia, weakness and stiffness of the joints. Internal bleeding may develop.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush with large amounts of water for at least 15 minutes.

Skin: Wash off with soap and water for at 15 minutes. Remove all contaminated clothing.

Inhalation: Remove to the fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion: Dilute with several glasses of water or milk - contact a physician.

On all of the Above: Seek medical attention if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Flammable

Flammable Limits: Not Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire, which should include self-contained breathing apparatus with full facepiece operated in positive pressure mold.

Unusual Fire Explosion Hazard: When heated to extreme temperatures, it may release hydrogen fluoride gas. Closed containers exposed to heat may explode.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Wear self-contained breathing apparatus and full protective clothing.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate if airborne concentration exceeds TLV to eliminate dust from the work area.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION cont'd

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: TLV/TWA 2.5 mg/m³
 PEL 2.5 mg/m³
 STEL Not Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 1704 °C or 3099 °F

Vapor Pressure (MM Hg): < 0.01 @ 200 °C

Vapor Density (AIR=1): 1.4

Specific Gravity (H₂O=1): 2.78

Bulk Density: Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: 993 °C or 1819 °F

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Moderate

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride

KEEP AWAY FROM: Strong acids, glass, high temperatures. Reacts with acids to form hydrogen fluoride.

SECTION 11 - TOXICOLOGICAL INFORMATION

ORAL	RAT	LD ₅₀	64 mg/kg
ORAL	MOUSE	LD ₅₀	22 mg/kg
INTRAVENOUS	RAT	LD ₅₀	12 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Sodium Fluoride, Solid
D.O.T. HAZARD CLASS: UN 1690, Class 6.1, PG III, Toxic
PRODUCT RQ (lbs) 1000 lbs

SECTION 15 - REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT):
This product is listed on the TSCA Inventory.

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted
Section 313 Toxic Chemicals: Unlisted
Section 311/312 Hazard Category: Immediate (acute) Health Hazard, Delayed Chronic.

SECTION 16 - OTHER INFORMATION

NFPA Rating Health 3 Fire 0 Reactivity 0

Reason for Issue: Changed Date

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