

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc
 7 Mulliken Way
 Newburyport, MA 01950-4098 U.S.A.
 www.strem.com

Strem Customer Service (978) 499-1600
 CHEMTREC (Emergency Only) (800) 424-9300
 Poison Center (800) 562-8236

Section 1: Product Identification	
Chemical Name:	Tin (IV) fluoride, 98.5%
Product Number:	93-5024
CAS Registry Number:	7783-62-2
Formula:	SnF4
EINECS Number:	232-016-0
Chemical Family:	metal halide
Synonym:	Stannic fluoride, Tin tetrafluoride

Section 2: Composition and Information on Ingredients				
Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7783-62-2	100%	2mg/m3 (as Sn)	2mg/m3 (as Sn)

Section 3: Hazards Identification	
Emergency Overview:	Hydrofluoric acid may form upon contact with moisture, causing delayed, deep, slow healing, painful burns. If inhaled or swallowed, this compound may cause fluoride poisoning.
Primary Routes of Exposure:	Contact with skin and eyes. Inhalation of dust.
Eye Contact:	Causes burns to the eyes. May cause blindness.
Skin Contact:	Prolonged contact with skin will cause delayed deep slow healing painful burns.
Inhalation:	Causes burns to the respiratory tract.
Ingestion:	If ingested, severe burns to the gastrointestinal tract may occur.
Acute Health Affects:	Burns to eyes and skin. Dust: Fluoride poisoning may cause nausea, vomiting, diarrhea, weakness, coma, respiratory failure and cardiovascular collapse.
Chronic Health Affects:	Prolonged exposure to hydrolysable fluorine compounds can cause deterioration of bone and tooth structure. Prolonged exposure to dust of tin compounds may result in benign pneumoconiosis.
NTP:	No
IARC:	No
OSHA:	No

SECTION 4: First Aid Measures	
Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area with water. Remove contaminated clothes if necessary. Apply calcium gluconate jelly or water soluble calcium salts as antidote. Seek medical assistance.
Inhalation:	Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: None. Material is non-flammable.
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products: If involved in a fire this material may emit corrosive fumes of hydrofluoric acid.
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small spills can be mixed with powdered sodium bicarbonate, lime, or calcium carbonate and swept up. Avoid raising dust. Spillage in areas not adequately ventilated may require an evacuation of area. Emergency response teams will require self-contained breathing apparatus.

SECTION 7: Handling and Storage

Handling and Storage: Store solid in a tightly sealed container away from moisture. Handle in a fume hood under a dry atmosphere of air or nitrogen. Prolonged exposure to the atmosphere may degrade the product.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.
Ventilation: The solid may form corrosive vapors. It should be handled in an efficient fume hood.
Respirator: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation: The solid may form corrosive vapors. It should be handled in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: white powdr.
Molecular Weight: 194.68
Melting Point: 705° subl.
Boiling Point: no data
Vapor Pressure: no data
Specific Gravity: 4.78
Odor: pungent odor
Solubility in Water: reacts with water

SECTION 10: Stability and Reactivity

Stability: moisture sensitive
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: contact with moisture
Incompatibility: active metals and strong mineral acids
Decomposition Products: Hydrofluoric acid, metal fluorides and metal oxyfluorides

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SECTION 11: Toxicological Information

RTECS Data: No information available in the RTECS files.
Carcinogenic Effects: no data
Mutagenic Effects: no data
Tetratogenic Effects: no data

SECTION 12: Ecological Information

Ecological Information: Avoid release to groundwater or waterways. Very toxic to aquatic organisms. May cause long-term adverse effects.

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Corrosive solids, N.O.S.
Hazard Class (CFR): 8
Additional Hazard Class (CFR): NA
Packaging Group (CFR): II
UN ID Number (CFR): UN# 1759
Shipping Name (IATA): Corrosive solid, N.O.S.
Hazard Class (IATA): 8
Additional Hazard Class (IATA): NA
Packaging Group (IATA): II
UN ID Number (IATA): UN# 1759

SECTION 15: Regulatory Information

TSCA: Not listed in the TSCA inventory.
SARA (Title 313): Title compound not listed.
Second Ingredient: none
Third Ingredient: none

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.
Preparation Date: 6/11/2001
Revision Date: 7/29/2011

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