

## Safety Data Sheet Stannous Fluoride

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
<b>Product Name</b>	Stannous Fluoride	
<b>Chemical Formula</b>	SnF <sub>2</sub>	
<b>CAS No</b>	7783-47-3	
<b>Uses</b>	Laboratory chemicals, Manufacture of substances	
<b>Contact Information</b>	<b>OFFICE :</b> <b>Madras Fluorine Private Ltd</b> No.71, 4 <sup>th</sup> Main Road Gandhi Nagar, Adyar Chennai 600 020, India E-mail : <a href="mailto:exim@mplfluorine.com">exim@mplfluorine.com</a>	<b>FACTORY</b> <b>Madras Fluorine Private Ltd</b> Express Highway Manali Chennai – 600 068, India
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### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)  
Skin irritation (Category 2)  
Serious eye damage (Category 1)

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

#### 2.2 Label elements

##### Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram





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Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ eye protection/ face protection.

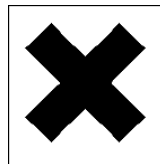
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard none

Statements

**According to European Directive 67/548/EEC as amended.**

Hazard symbol(s)



R-phrase(s)

R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 Wear eye/face protection.

**2.3 Other hazards - none**

## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms : Stannous fluoride

Formula : SnF<sub>2</sub>

Molecular Weight : 156,71 g/mol

Component	Concentration
<b>Tin difluoride</b>	
CAS-No. 7783-47-3	-
EC-No. 231-999-3	



#### **SECTION 4 : FIRST AID MEASURES**

**4.1 Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention

**4.2 Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention

**4.3 Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention

**4.4 Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**4.5 Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**4.6 Ingestion:** Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**4.7 Serious Ingestion:** Not available

#### **SECTION 5 : FIRE –FIGHTINGS MEASURES**

**5.1 Flammability of the Product:** Non-flammable.

**5.2 Auto-Ignition Temperature:** Not applicable.

**5.3 Flash Points:** Not applicable.

**5.4 Flammable Limits:** Not applicable.

**5.5 Products of Combustion:** Not available.

**5.6 Fire Hazards in Presence of Various Substances:** Not applicable.

**5.7 Explosion Hazards in Presence of Various Substances:** Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**5.8 Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.



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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2 Environmental precautions

Do not let product enter drains.

**6.3 Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**6.4 Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## SECTION 7 : HANDLING AND STORAGE

**7.1 Precautions:** Keep locked up Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as acids.

**7.2 Storage:** Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**8.2 Personal Protection:** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**8.3 Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**8.4 Exposure Limits:** TWA: 2 (mg/m<sup>3</sup>) from ACGIH Consult local authorities for acceptable exposure limits



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## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	: Solid. (Crystalline solid.)
Odor	: Odorless.
Taste	: Not available.
Molecular Weight	: 156.69 g/mole
Color	: White.
pH (1% soln/water)	: Not available.
Boiling Point	: 850°C (1562°F)
Melting Point	: 215°C (419°F)
Critical Temperature	: Not available.
Specific Gravity	: 2.79 (Water = 1)
Relative density	: 4,57 g/mL at 25 °C
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: See solubility in water.
Solubility	: Soluble in cold water, hot water

## SECTION 10 : STABILITY AND REACTIVITY

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Highly reactive with acids.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** No.



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## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - 360 mg/kg

Remarks: Behavioral: Food intake (animal). Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

LD50 Dermal - rat - > 2.000 mg/kg

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Tin difluoride)

#### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard

no data available

#### Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** Harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye burns.

#### Signs and Symptoms of Exposure

Salivation, Nausea, Vomiting, Fever, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

#### Additional Information

RTECS: XQ3450000



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## SECTION 12 : ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## SECTION 13 : DISPOSAL CONSIDERATIONS

### Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations

## SECTION 14 : TRANSPORT INFORMATION

### ADR/RID

UN Number : 3260  
Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S  
(TIN FLUORIDE)  
Class : 8  
Packing Group : III  
Classification Code : C2  
Hazard Identification : 80  
Number  
ADR/RID Labels : 8  
Environmentally hazardous : no

### IATA

UN Number : 3260  
Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S  
(TIN FLUORIDE)  
Class : 8  
Packing Group : III  
Hazard Labels : 8

### IMDG

UN Number : 3260  
Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S  
(TIN FLUORIDE)  
Class : 8  
Packing Group : III  
Hazard Labels : 8  
Ems Number : F-A, S-B  
Marine pollutant : no



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## SECTION 15 : REGULATORY INFORMATION

**Federal and State Regulations:** Pennsylvania RTK: Stannous fluoride Massachusetts RTK: Stannous fluoride TSCA 8(b) inventory: Stannous fluoride

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):** CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL (EEC):** R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes.

**HMIS (U.S.A.):** Health Hazard: 3 Fire Hazard: 0 Reactivity: 0 Personal Protection: E

**National Fire Protection Association (U.S.A.):** Health: 3 Flammability: 0 Reactivity: 0 Specific hazard:

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

## SECTION 16 : OTHER INFORMATION

**References:** Not available.

**Other Special Considerations:** Not available.

**Disclaimer:**

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