



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tin (II) Fluoride**  
PRODUCT NUMBER: 3656  
CAS NUMBER: 7783-47-3  
SYNONYMS: Stannous Fluoride, Tin difluoride

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

|      |  |
|------|--|
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |

### Precautionary Phrases

|                |   |
|----------------|---|
| P260           | Do not breathe dust or mist.  |
| P264           | Wash skin thoroughly after handling.  |
| P270           | Do not eat, drink, or smoke when using this product.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.  |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.                      |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER or doctor/physician.   |
| P362           | Take off contaminated clothing and wash before reuse.   |
| P501           | Dispose of contents/container to an approved waste disposal plant.  |

### HMIS CLASSIFICATION:

Health: 3      Fire: 0      Reactivity Hazard: 1

### NFPA RATING:

Health: 3      Flammability: 0      Reactivity Hazard: 1

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** Causes burns to the eyes. May cause blindness.

**SKIN CONTACT:** Prolong contact with skin will cause delayed deep slow healing painful burns.

**INHALATION:** Causes caustic burns to the respiratory tract.

**INGESTION:** Harmful if swallowed. If ingested, severe burns to the gastrointestinal tract may occur.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: SnF<sub>2</sub>

Molecular Weight: 156.69

| CHEMICAL NAME     | CAS#      | %   |
|-------------------|-----------|-----|
| Tin (II) Fluoride | 7783-47-3 | 100 |

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen fluoride and tin oxides.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** 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. Emergency response teams will require self-contained breathing apparatus.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Avoid contact with skin and eyes. Handle under dry protective gas.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store in a tightly sealed container away from moisture. Handle under a dry atmosphere or air or nitrogen. Prolonged exposure to the atmosphere may degrade the product. Store away from water, moisture, and oxidizing agent.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS

| Component         | Exposure Limits       | Basis | Entity |
|-------------------|-----------------------|-------|--------|
| Tin (II) fluoride | 2.5 mg/m <sup>3</sup> | TLV   | ACGIH  |
|                   | 2.5 mg/m <sup>3</sup> | PEL   | OSHA   |
|                   | 2 mg/m <sup>3</sup>   | REL   | NIOSH  |
| (Fluorides)       | 3mg/g*                | BEI-U | ACGIH  |
| (Fluorides)       | 10mg/g**              | BEI-U | ACGIH  |

\*Prior to shift

\*\*End of shift

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

BEI-U: Biological Exposure Indices in Urine

**EYE PROTECTION:** Wear chemical safety glasses or goggles and a face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete body suit protecting against chemicals.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White to off-white solid

**ODOR:** None

**MOLECULAR WEIGHT:** 156.71

**BOILING POINT:** 850°C

**MELTING POINT:** 219°C

**SPECIFIC GRAVITY:** 4.57 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Slightly soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Contact with moisture

**INCOMPATIBILITY:** Strong oxidizing agents, strong acids, water, moisture, and air

**DECOMPOSITION PRODUCTS:** Hydrogen fluoride and tin oxides.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 360 mg/kg. LD50 Dermal – rat - >2,000

**CARCINOGENIC EFFECTS:** According to NTP and OSHA, no components of this product present at levels greater than or equal to 0.1% is identified a carcinogen. According to IARC, it's not classifiable as to carcinogenicity to humans. According to ACGIH, there is not enough information to classify this as a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** XQ3450000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN3260

Corrosive solid, acidic, inorganic, n.o.s.

(Tin (II) Fluoride)

CLASS 8

PG II

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**DSCL (EEC):** Listed on the DSCL inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Acute health Hazard, chronic health hazard.

**SARA (TITLE 313):** Not Listed

**PENNSYLVANIA RIGHT TO KNOW:** Tin (II) Fluoride

**NEW JERSEY RIGHT TO KNOW:** Tin (II) Fluoride

**CALIFORNIA PROP. 65:** Not Listed

**WHMIS CANADA:** Not Listed

## SECTION 16 OTHER INFORMATION

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