

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Strontium fluoride
CAS #: 7783-48-4
FORMULA: SrF₂
SYNONYM: Strontium difluoride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7783-48-4	100	2.5mg/m ³ (as F)	2.5mg/m ³ (as F)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: If inhaled or swallowed, this compound may, to the extent that it may form water soluble fluoride, cause fluoride poisoning. Early symptoms include nausea, vomiting, diarrhea, and weakness

PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Inhalation of dust.

EYE CONTACT: May cause irritation and serious eye damage. Effects may not immediately appear.

SKIN CONTACT: May cause irritation with redness and pain. Soluble fluoride may be corrosive. Effects may not appear immediately.

INHALATION: Inhalation of dust may cause severe irritation to the respiratory tract, causing coughing, sore throat, and labored breathing

INGESTION: May cause salivation, nausea, vomiting, diarrhea, and abdominal pain.

CHRONIC HEALTH EFFECTS: Prolonged exposure to hydrolysable fluorine compounds can cause deterioration of bone and tooth structure.

ACUTE HEALTH EFFECTS: Fluoride poisoning may cause nausea, vomiting, diarrhea, weakness, coma, respiratory failure and cardiovascular collapse.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes 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 affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

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 assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: None. Material is non flammable

SPECIAL FIREFIGHTING PROCEDURES: If 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: none

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.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store solid in a tightly sealed container away from moisture. Handle 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 w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material 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 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white powder

MOLECULAR WEIGHT: 125.62

MELTING POINT (DEG. C.): none

BOILING POINT: 2489^o

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 4.24

SOLUBILITY IN WATER: slightly soluble

SECTION 10 Stability and Reactivity

STABILITY: hygroscopic

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: contact with moisture.

INCOMPATIBILITY: none

DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Oral (rat); LD50: 10600 mg/kg. Intravenous (rat); LDLo: 625 mg/kg. Intraperitoneal (mouse); LD50: 4400 mg/kg. Oral (guinea pig); LDLo: >5 gm/kg. Subcutaneous (guinea pig); LDLo: >5 gm/kg.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound not listed

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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