
SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMTREC: 800-424-9300

BASSTECH INTERNATIONAL LLC EMERGENCY CONTACT

300 GRAND AVENUE

ENGLEWOOD, NEW JERSEY 07631

PHONE: (201) 569-8686 FAX: (201) 569-7511

SUBSTANCE: STRONTIUM FLUORIDE

TRADE NAMES/SYNONYMS:

STRONTIUM FLUORIDE (SRF2); STRONTIUM DIFLUORIDE; F2SR; BTI76592; RTECS

WK8925000

CHEMICAL FAMILY: inorganic, salt

CREATION DATE: Feb 24 1997 REVISION DATE: Jun 19 2001

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: STRONTIUM FLUORIDE

CAS NUMBER: 7783-48-4

EC NUMBER (EINECS): 232-000-3

PERCENTAGE: 100.0

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=0

EMERGENCY OVERVIEW:

COLOR: colorless to white

PHYSICAL FORM: crystals, powder

ODOR: odorless

MAJOR HEALTH HAZARDS: No significant target effects reported.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: same as effects reported in short term ingestion, irritation (possibly severe), nausea, difficulty breathing, asthma, lung congestion

LONG TERM EXPOSURE: same as effects reported in short term exposure $SKIN\ CONTACT$:

SHORT TERM EXPOSURE: same as effects reported in short term ingestion, irritation (possibly severe)

LONG TERM EXPOSURE: same as effects reported in short term exposure \mbox{EYE} CONTACT:

SHORT TERM EXPOSURE: irritation (possibly severe)

LONG TERM EXPOSURE: same as effects reported in short term exposure INGESTION:

SHORT TERM EXPOSURE: burns, rash, nausea, diarrhea, stomach pain, difficulty

breathing, irregular heartbeat, headache, tingling sensation, visual disturbances, dilated pupils, bluish skin color, paralysis, convulsions,

LONG TERM EXPOSURE: no information on significant adverse effects

CARCINOGEN STATUS:

OSHA: No NTP: No IARC: No

SECTION 4 FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: Give milk. Get medical attention immediately.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Collect spilled material in appropriate container for disposal.

SECTION 7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

HANDLING: Use methods to minimize dust.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

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EXPOSURE LIMITS:
STRONTIUM FLUORIDE:
  INORGANIC FLUORIDES (as F):
    2.5 mg/m3 OSHA TWA
    2.5 mg/m3 ACGIH TWA
    2.5 mg/m3 NIOSH recommended TWA 10 hour(s)
VENTILATION: Provide local exhaust ventilation system. Ensure compliance with
  applicable exposure limits.
EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye
  wash fountain and quick drench shower in the immediate work area.
CLOTHING: Wear appropriate chemical resistant clothing.
GLOVES: Wear appropriate chemical resistant gloves.
RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory
  protection may be needed. Respiratory protection is ranked in order from
  minimum to maximum. Consider warning properties before use.
  Measurement Element:
12.5 \text{ mg/m}3
  Any dust and mist respirator.
25 \text{ mg/m}3
  Any dust and mist respirator except single-use and quarter-mask respirators.
  Any supplied-air respirator.
62.5 \text{ mg/m3}
  Any supplied-air respirator operated in a continuous-flow mode.
  Any powered, air-purifying respirator with a dust and mist filter.
  May need acid gas sorbent.
125 \text{ mg/m}3
  Any air-purifying respirator with a full facepiece and a high-efficiency
    particulate filter.
  May need acid gas sorbent.
  Any self-contained breathing apparatus with a full facepiece.
  Any supplied-air respirator with a full facepiece.
250 \text{ mg/m}3
  Any supplied-air respirator with a full facepiece that is operated in a
    pressure-demand or other positive-pressure mode.
  Any air-purifying respirator with a full facepiece and a high-efficiency
    particulate filter.
  May need acid gas sorbent.
  Any appropriate escape-type, self-contained breathing apparatus.
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For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

COLOR: colorless to white

PHYSICAL FORM: crystals, powder

ODOR: odorless

MOLECULAR WEIGHT: 125.62 MOLECULAR FORMULA: F2-Sr

BOILING POINT: 4460-4512 F (2460-2489 C) MELTING POINT: 2174-2665 F (1190-1463 C)

VAPOR PRESSURE: Not applicable VAPOR DENSITY: Not applicable SPECIFIC GRAVITY (water=1): 2.44

WATER SOLUBILITY: 11% PH: Not applicable

VOLATILITY: Not applicable ODOR THRESHOLD: Not available EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SOLVENT SOLUBILITY:

Soluble: hydrochloric acid, hydrogen fluoride, dilute acids

Decomposes: strong acids

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: None reported.

INCOMPATIBILITIES: oxidizing materials

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: acid halides

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

STRONTIUM FLUORIDE:

TOXICITY DATA:

10600 mg/kg oral-rat LD50

ACUTE TOXICITY LEVEL:

Slightly Toxic: ingestion

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: central nervous system disorders, bone, joint or tooth disorders, eye disorders, kidney disorders, respiratory disorders, skin disorders and allergies

ADDITIONAL DATA: May cross the placenta. May be excreted in breast milk.

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations. ______ SECTION 14 TRANSPORT INFORMATION U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned. SECTION 15 REGULATORY INFORMATION ______ U.S. REGULATIONS: CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated. SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated. SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): Not regulated. SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21): ACUTE: No CHRONIC: Yes FIRE: No REACTIVE: No SUDDEN RELEASE: No SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated. OSHA PROCESS SAFETY (29CFR1910.119): Not regulated. STATE REGULATIONS: California Proposition 65: Not regulated. CANADIAN REGULATIONS: WHMIS CLASSIFICATION: Not determined. EUROPEAN REGULATIONS: EC CLASSIFICATION (CALCULATED): Not determined. EC RISK AND SAFETY PHRASES: R 64 May cause harm to breastfed babies. NATIONAL INVENTORY STATUS: U.S. INVENTORY (TSCA): Listed on inventory. TSCA 12(b) EXPORT NOTIFICATION: Not listed. CANADA INVENTORY (DSL): Not determined. CANADA INVENTORY (NDSL): Not determined.

SECTION 16 OTHER INFORMATION

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