

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium Fluoride

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10158

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral, inhalation, and dermal (Category 3). Toxic if swallowed, inhaled or in contact with skin (H301+H311+H331). Do not eat, drink or smoke when using this product (P270). Avoid breathing dust or fumes.



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium fluoride	7789-23-3	KF	58.1	

SECTION 4 — FIRST AID MEASURES

IMMEDIATELY call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P340).

If in eyes: Immediately flush with fresh water for at least 15 minutes.

If on skin: Rinse cautiously with water for several minutes (P302+P351). Immediately remove all contaminated clothing (P361). Wash contaminated clothing before reuse (P363).

If swallowed: Do NOT induce vomiting. Administer milk, chewable calcium carbonate tablets or milk of magnesia.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code

None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Do not allow solid to become airborne. Ventilate area. Wipe up, place in sealed bag or container and dispose. Wash spill

site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates.

Deliquescent. Store in a cool, dry place within a Flinn Chem-Saf™ bag. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271). Wear respiratory protection (P284).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystals or powder. Odorless.

Boiling point: 1500 °C

Soluble: Water. Insoluble in alcohol.

Melting point: 858 °C

Specific gravity: 2.480

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong acids.

Shelf life: Fair to poor, deliquescent. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic and corrosive if inhaled, ingested, or in contact with skin and eyes.

ORL-RAT LD₅₀: 245 mg/kg

IHL-RAT LC₅₀: N.A.

Chronic effects: Fluorosis, hypocalcemia

SKN-RBT LD₅₀: N.A.

Target organs: Heart, kidneys, bones, nerves, GI system, teeth.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #6 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Potassium fluoride. Hazard class: 6.1, keep away from food. UN number: UN1812.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (232-151-5).

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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