

## 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.

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## **SECTION 7 — HANDLING AND STORAGE**

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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).

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## **SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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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).

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## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White crystals or powder. Odorless.

Boiling point: 1500 °C

Soluble: Water. Insoluble in alcohol.

Melting point: 858 °C

Specific gravity: 2.480

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## **SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong acids.

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

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## **SECTION 11 — TOXICOLOGICAL INFORMATION**

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

ORL-RAT LD<sub>50</sub>: 245 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

Chronic effects: Fluorosis, hypocalcemia

SKN-RBT LD<sub>50</sub>: N.A.

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

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## **SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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## **SECTION 13 — DISPOSAL CONSIDERATIONS**

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

Flinn Suggested Disposal Method #6 is one option.

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## **SECTION 14 — TRANSPORT INFORMATION**

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

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## **SECTION 15 — REGULATORY INFORMATION**

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

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## **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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