

Section 1. Product and Company Identification

Product Name Potassium Fluoride
CAS Number 7789-23-3

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EMERGENCY RESPONSE NUMBER
CHEMTEL
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification

Acute Toxicity (Oral): Category 3
Acute Toxicity (Inhalation): Category 3
Acute Toxicity (Dermal): Category 3

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

Precautionary Statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P270 Do not eat, drink, or smoke when using this product.

P280 Wear protective gloves/protective clothing.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



P310 Immediately call a POISON CENTER or doctor/physician.

P361 Remove/Take off immediately all contaminated clothing.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards: None known

Section 3. Composition / Information on Ingredients

Common Name Potassium Fluoride
Formula KF
CAS Number 7789-23-3

COMPONENT	CAS NUMBER	CONCENTRATION
Potassium Fluoride	7789-23-3	80 - 100%

Section 4. First Aid Measures

General advice: Call a physician or poison control center immediately. Show this material safety data sheet to the doctor in attendance.

Inhalation: Call a physician or poison control center immediately. Move to fresh air.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes.

Ingestion: If swallowed, call a poison control center or doctor immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed: Toxic if swallowed, in contact with skin or if inhaled.

Protection of first-aiders: First-Aid responders should pay attention to self-protection and use the recommended protective clothing. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

Notes to physician: For specialist advice physicians should contact the Poison Control Center.

Section 5. Firefighting Measures

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No information available.

Hazardous combustion products: Hydrogen fluoride



Specific extinguishing methods: Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Environmental precautions: Should not be released into the environment. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up: Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Shovel or sweep up. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

Section 7. Handling and Storage

Advice on safe handling: For personal protection see section 8. Smoking, eating, and drinking should be prohibited in the application area. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid breathing dust.

Conditions for safe storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Recommended storage temperature: -5 to 40°C

Section 8. Exposure Controls / Personal Protection

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Potassium Fluoride	7789-23-3	TWA	2.5 mg/m ³ (Fluorine)	OSHA Z-1
		TWA	2.5 mg/m ³ (Fluorine)	ACGIH
		TWA	2.5 mg/m ³ (Fluorine)	OSHA P0

Occupational exposure limits of decomposition products

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Hydrofluoric Acid	7664-39-3	TWA	0.5 ppm (Fluorine)	ACGIH
		C	2 ppm (Fluorine)	ACGIH
		TWA	3 ppm 2.5 mg/m ³	NIOSH REL
		C	6 ppm 5 mg/m ³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	3 ppm (Fluorine)	OSHA P0
		STEL	6 ppm (Fluorine)	OSHA P0

Personal protective equipment

Respiratory protection: In case of mist, spray, or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Follow the instructions for use issued by the producer.

Eye protection: Tightly fitting safety goggles

Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection: Impervious clothing; Boots

Protective measures/Engineering measures: Ensure adequate ventilation, especially in confined areas.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using do not eat, drink, or smoke. Avoid breathing dust.

Section 9. Physical and Chemical Properties

Appearance: Solid

Color: White

Odor: No information available.

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: No data available

Evaporation rate: Not applicable

Flammability (solid, gas): Not classified as a flammability hazard



Upper explosion limit: No data available
Lower explosion limit: No data available
Vapor pressure: Not determined
Relative vapor density: Not applicable
Density: No data available

Solubility(ies)

Water solubility: Soluble

Partition coefficient (n-Octanol/Water): No data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Viscosity

Viscosity - Dynamic: No data available

Viscosity - Kinematic: No data available

Oxidizing properties: Not applicable

Section 10. Stability and Reactivity

Reactivity: None under normal processing.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Avoid dust formation. To avoid thermal decomposition, do not overheat.

Incompatible materials: No data available

Hazardous decomposition products: Hydrofluoric Acid

Section 11. Toxicological Information

Information on likely routes of exposure: Inhalation; Ingestion; Skin Absorption

Acute toxicity: Toxic if swallowed, in contact with skin or if inhaled.

Product

Acute oral toxicity

Acute toxicity estimate: 251.28 mg/kg

Method: Calculation method

Acute inhalation toxicity

Acute toxicity estimate: 0.52 mg/l

Exposure time: 4 h

Test atmosphere: Dust/Mist



Method: Calculation method

Acute dermal toxicity

Acute toxicity estimate: 307.69 mg/kg

Method: Calculation method

Ingredients

Potassium fluoride

Acute oral toxicity

LD50 Oral (Rat): 245 mg/kg

Acute inhalation toxicity

LC50 (Rat): 0.51 mg/l

Exposure time: 4h

Test atmosphere: dust/mist

Acute dermal toxicity

Acute toxicity estimate: 300 mg/kg

Remark: The acute toxicity estimate (ATE) of the ingredients are derived using the LD50/LC50 values where available.

Skin corrosion/irritation: Not classified based on available information.

Serious eye damage/eye irritation: Not classified based on available information.

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

IARC: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA specified: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure: Not classified based on available information.

STOT-repeated exposure: Not classified based on available information.

Aspiration toxicity: Not classified based on available information.

Further information

Remarks: No data available



Section 12. Ecological Information

Ecotoxicity

Toxicity to daphnia and other aquatic invertebrates

EC50: 270 mg/l

Exposure time: 48 h

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

International Regulation

UNRTDG

UN number: UN1812

Proper shipping name: Potassium Fluoride, Solid

Class: 6.1

Packing group: III

Labels: 6.1

IATA-DGR

UN/ID No.: UN1812

Proper shipping name: Potassium Fluoride, Solid

Class: 6.1

Packing group: III

Labels: Toxic

Packing instruction (cargo aircraft): 677

Packing instruction (passenger aircraft): 670

IMDG-Code

UN number: UN1812

Proper shipping name: Potassium Fluoride, Solid

Class: 6.1

Packing group: III

Labels: 6.1

EmS Code: F-A, S-A



Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

Domestic Regulation

DOT/49 CFR

UN/ID/NA number: UN1812

Proper shipping name: Potassium fluoride, solid

Class: 6.1

Packing group: III

Labels: POISON

ERG Code: 154

Marine pollutant: no

Section 15. Regulatory Information

TSCA 5a: Not relevant

TSCA_12b: Not relevant

DEA: Not applicable

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Acute Health Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know

No components are subject to Pennsylvania Right to Know Act.

New Jersey Right to Know

Potassium fluoride (CAS# 7789-23-3): 80 - 100%

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.



HMIS Rating

Health: 3

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 3

Flammability: 0

Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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