





Safety Data Sheet POTASSIUM FLUORIDE

SECTION 1 : CHEMICAL PRODU	CI AND COMPANY	IDENTIFICATION
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Product Name Potassium Fluoride

Product Code 088 001

Other/Generic Names Potassium Fluoride

Product UseMetal finishing, batteries, coatings, photographic chemicals,

industrial chemicals, Laboratory chemicals,

Synonyms Potassium(I) fluoride

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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger Hazard statement(s)

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







Precautionary statement(s)

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

P280 Wear protective gloves/ protective clothing.

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately

call a POISON CENTER or doctor/ physician.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or

doctor/ physician if you feel unwell.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER or doctor/physician.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Supplemental Hazard

Statements

None

Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Formula : KF

Molecular weight : 58,10 g/mol CAS-No. : 7789-23-3 EC-No. : 232-151-5 Index-No. : 009-005-00-2

Hazardous ingredients according to Regulation (EC) No 1272/2008

Componen	t	Classification	Concentration	
Potassium	Fluoride			
CAS-No.	7789-23-3	Acute Tox. 3; H301, H331,	<= 100 %	
EC-No.	232-151-5	H311		
Index-No.	009-005-00-2			







SECTION 4: FIRST AID MEASURES

Skin:

Promptly wash with soap and water, rinsing until clean. Remove contaminated clothing and wash before reuse. Get medical attention for irritation.

Eves:

Immediately flush with running water for at least 15 minutes. Get medical assistance for any irritation or other symptom.

Inhalation:

Remove to fresh air. If not breathing, apply mouth to mouth artificial respiration. Get medical assistance.

Ingestion:

Do not induce vomiting. If conscious, give milk (preferred) or water. Get immediate medical assistance

Advice To Physician:

Fluorides can reduce serum calcium levels resulting in potentially fatal hypocalcemia. Potassium can reduce blood pressure and cause coma.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Hydrogen fluoride, Potassium oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.







SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic. Store under inert gas.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Local exhaust ventilation recommended for product transfer areas or other areas where dusty conditions may exist.

Personal Protective Equipment

Skin Protection:

Glove and work clothing. Impervious gloves and protective clothing should be worn if working with product solutions or prolonged contact with solids may occur.

Eye Protection:

Chemical safety glasses. Wear chemical safety goggles in dusty conditions or if product mists are present

Respiratory

Protection:

For dusty conditions, use a NIOSH approved dust respirator.

Additional Recommendations:

Source of running water and eye wash are appropriate.

Exposure Guidelines

Ingredient Name Acgih Tlv Osha Pel Other Limit

Potassium fluoride (as fluoride) 2.5 mg/m₃ (as F)

TWA 2.5 mg/m₃ (as F) TWA F in urine: 3 mg/g creatinine pre shift,

10 mg/g postshift. з

- ₁ = Limit established by General Chemical Corporation.
- 2 = Workplace Environmental Exposure Level (AIHA).
- 3 = Biological Exposure Index (ACGIH).

Other Exposure Limits For Potential Decomposition Products:







SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance White crystal

Physical State Solid

Molecular Weight 58.1

Chemical Formula KF

Odor None

Specific Gravity (water = 1.0) 2.48

Solubility in water (weight %) 48 at 64°F

pH Solid material

Boiling Point 2741°F

Melting Point 1580°F

Vapor Pressure Not applicable

Vapor density (air = 1.0) Not applicable

Evaporation Rate Negligible

% Volatiles Negligible

Flash Point Not flammable

(Flash point method and additional flammability data are found in Section 5.)

SECTION 10: STABILITY AND REACTIVITY

Normally Stable? (Conditions To Avoid):

Stable. Can absorb moisture from the air; deliquescent.

Incompatibilities:

Strong acids. (Contact may generate highly corrosive and toxic hydrofluoric acid.)

Hazardous Decomposition Products:

See above. Otherwise, none.

Hazardous Polymerization:

Will not occur.







SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 245 mg/kg Dermal: No data available

LD50 Intraperitoneal - Rat - 64 mg/kg

LD50 Intraperitoneal - Mouse - 40.030 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Potassium fluoride)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Salivation, Nausea, Vomiting, Abdominal pain, Fever, Irregular breathing., Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia., perforation of the nasal septum, calcium deposits in the ligaments, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Inhalation may provoke the following symptoms:, spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water, waste water or soil







SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

UN number

ADR/RID: 1812 IMDG: 1812 IATA: 1812

UN proper shipping name

ADR/RID : POTASSIUM FLUORIDE, SOLID IMDG : POTASSIUM FLUORIDE, SOLID IATA : POTASSIUM FLUORIDE, SOLID

Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

Packaging group

ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

No data available

SECTION 15: REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

TSCA Inventory Status: Listed on the TSCA Inventory of Chemical Substances

Other Tsca Issues: None

SARA Title III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following

ingredients.







SECTION 16: OTHER INFORMATION

Creation Date: 18.9.2000

Revision Date: 25.7.2006

Other Information: None

Disclaimer:

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