



Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	Potassium Fluoride Powder, ACS	
<b>NCL Catalog Number</b>	<b>P-58</b>	
<b>Product Description</b>	Laboratory chemical	
<b>Manufacturer</b>	EMD Chemicals Inc.	PO Box 70, 480 Democrat Road Gibbstown, NJ 08027
<b>Supplier</b>	NCL of Wisconsin, Inc. Telephone: 1-800-648-7836 Email: <a href="mailto:nclabs@nclabs.com">nclabs@nclabs.com</a>	PO Box 8, Birnamwood, WI 54414 Fax: 715-449-2454 Emergency Contact: 1-800-424-9300 (Chemtrec)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification**

Acute Toxicity	Oral Category 3
Acute Toxicity	Dermal Category 3
Acute Toxicity	Inhalation Category 3



**Signal Word** Danger

**Hazard Statements**

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

**Precautionary Statements**

P261	Avoid breathing dust.
P264	Wash exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P312	Call a POISON CENTER or doctor if you feel unwell.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a POISON CENTER or doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to comply with local, state and federal regulations.

**Other Hazards Not Contributing to the Classification** None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Formula** KF

**Substance**

Name	CAS #	Approximate %
Potassium Fluoride	7789-23-3	100

#### SECTION 4: FIRST AID MEASURES

##### Description of First Aid Measures

<b>General First Aid Measures</b>	Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.
<b>If Inhaled</b>	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
<b>In Case of Skin Contact</b>	Remove contaminated clothing and shower/wash exposed skin with mild soap and water. Rinse with warm water. Do not apply chemical neutralizing agents. Take victim to a doctor if irritation persists.
<b>In Case of Eye Contact</b>	Immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if irritation persists.
<b>If Swallowed</b>	Rinse mouth with water. Immediately give lots of water to drink. Do not induce vomiting. Immediately consult a doctor/medical service. Ingestion of large quantities: Immediately take victim to the hospital.

##### Most Important Symptoms/Effects Acute and Delayed

<b>After Inhalation</b>	Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties.
<b>After Skin Contact</b>	Tingling/irritation of skin. Caustic burns and corrosion of skin upon continuous contact.
<b>After Eye Contact</b>	Irritation of the eye tissue. Inflammation/damage of the eye tissue. Corrosion of the eye tissue upon continuous exposure.
<b>After Ingestion</b>	Vomiting Nausea. Abdominal pain. Feeling of weakness.

##### Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical advice if you feel unwell.

#### SECTION 5: FIRE-FIGHTING MEASURES

##### Extinguishing Media

<b>Suitable Extinguishing Media</b>	For surrounding fires: All extinguishing media allowed.
<b>Unsuitable Extinguishing Media</b>	None known.

##### Special Hazards Arising from the Chemical

Release of toxic and corrosive gases/vapors when heating. Reacts with acids to release hydrofluoric acid.

##### Special Protective Actions for Fire-Fighters

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray. Dilute toxic gases with water spray.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### Personal Precautions, Protective Equipment and Emergency Procedures

<b>Personal Precautions</b>	Use personal protective equipment (see section 8). Safety glasses, gloves, gas/dust mask. Dust cloud production: Compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: Gas-tight suit. Evacuate area of non-essential personnel. Eliminate ignition sources.
<b>Environmental Precautions</b>	Prevent entry to surface and ground waters.
<b>Methods and Materials for Containment and Cleaning Up</b>	Stop dust cloud by covering with sand/earth. Collect spillage. Store away from other materials. Wash clothing and equipment after handling. Ensure compliance with local, state and federal regulations.

#### SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling**

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

**Conditions for Safe Storage  
Including any Incompatibilities**

Keep in original container, tightly closed and stored in a cool, dry, ventilated area.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

<b>Potassium Fluoride (7789-23-3)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup>

**Appropriate Engineering Controls**

Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures**

Avoid all unnecessary exposure.

**Eye/Face Protection**

Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

**Skin Protection**

Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

**Respiratory Protection**

Wear appropriate mask.

**Other Information**

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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Solid, crystalline powder
<b>Color</b>	Off-white to white
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting Point/Freezing Point</b>	858° C
<b>Initial Boiling Point and Boiling Range</b>	1505°C
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	No data available

**Incompatible Materials** Acids  
**Hazardous Decomposition Products** No data available

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity** Toxic if swallowed, in contact with skin or if inhaled.

<b>Potassium Fluoride (7789-23-3)</b>	
<b>LD50 oral rat</b>	245 mg/kg

<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available
<b>Symptoms/Injuries After Inhalation</b>	Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties.
<b>After Skin Contact</b>	Tingling/irritation of skin. Caustic burns and corrosion of skin upon continuous contact.
<b>Symptoms/Injuries After Eye Contact</b>	Irritation of the eye tissue. Inflammation/damage of the eye tissue. Corrosion of the eye tissue upon continuous exposure.
<b>Symptoms/Injuries After Ingestion</b>	Vomiting Nausea. Abdominal pain. Feeling of weakness.
<b>Likely Routes of Exposure</b>	Inhalation, skin, and eye contact.
<b>Other Information</b>	Not available

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity</b>	Not applicable
<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Not applicable

**SECTION 13: DISPOSAL CONSIDERATIONS**

Methods of Disposal

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with local, state and federal regulations. Hazardous waste shall not be mixed together with other waste. Remove to an authorized dump.
<b>Other Information</b>	Avoid release to the surrounding environment.

**SECTION 14: TRANSPORT INFORMATION**

**UN Number** 1812  
**UN Shipping Name** Potassium Fluoride, solid.  
**Transport Hazard Class(es)** 6.1 – Poisonous materials.  
**Packing Group** III  
**Environmental Hazards** Not applicable  
**Transport in Bulk** 240  
**Other Precautions** Not applicable

**SECTION 15: REGULATORY INFORMATION**

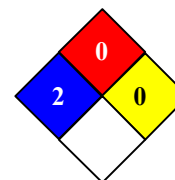
<b>Potassium Fluoride (7789-23-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**SECTION 16: OTHER INFORMATION**

Revision Date: 04/08/2015

**NFPA Hazards**

**Health Hazard** 2: Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.  
**Fire Hazard** 0: Materials that will not burn under typical fire conditions.  
**Reactivity/Instability** 0: Normally stable, even under fire exposure conditions, and are not reactive with water.



**HMIS III Rating**

**Health** 2: Temporary or minor injury may occur.  
**Flammability** 0: Materials that will not burn.  
**Physical Hazard** 0: Materials that are normally stable.  
**Personal Protection** E

P-58	
Health	2
Flammability	0
Physical Hazard	0
Personal Protection	E

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**END OF SAFETY DATA SHEET**