

# **SAFETY DATA SHEET**

Creation Date 05-Oct-2010 Revision Date 18-Jan-2018 Revision Number 5

# 1. Identification

Product Name Potassium fluoride

Cat No.: 06113-1; 06113-500

**CAS-No** 7789-23-3

Synonyms No information available

Recommended Use Laboratory chemicals.

**Uses advised against**Not for food, drug, pesticide or biocidal product use

### Details of the supplier of the safety data sheet

### Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

# **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Acute dermal toxicity

Acute Inhalation Toxicity - Dusts and Mists

Serious Eye Damage/Eye Irritation

Category 3

Category 3

Category 3

Category 1

### Label Elements

## Signal Word

Danger

### **Hazard Statements**

Toxic if swallowed
Toxic in contact with skin
Causes serious eye damage
Toxic if inhaled



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

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

Use only outdoors or in a well-ventilated area

#### Inhalation

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

Call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

#### Storage

Store locked up

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

### **Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Potassium fluoride	7789-23-3	>95

# 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If

not breathing, give artificial respiration.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

Causes eye burns. Causes severe eye damage.

Most important symptoms and

effects

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

UpperNo data availableLowerNo data availableOxidizing PropertiesNot oxidising

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Hydrogen fluoride

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	1	N/A

### 6. Accidental release measures

**Personal Precautions** 

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system.

**Environmental Precautions** 

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

Up formation.

# 7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not get in

eyes, on skin, or on clothing. Avoid dust formation. Do not breathe vapors/dust. Do not

ingest.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)	
Potassium fluoride	TWA: 2.5 mg/m <sup>3</sup>	(Vacated) TWA: 2.5 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

**Engineering Measures** Use only under a chemical fume hood. Ensure that eyewash stations and safety showers

are close to the workstation location.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard **Respiratory Protection** 

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

9. Physical and chemical properties

**Physical State** Solid **Appearance** White Odor Odorless

No information available **Odor Threshold** 8-9 @ 20°C 50 g/l aq.sol

860 °C / 1580 °F Melting Point/Range

**Boiling Point/Range** 

1505 °C / 2741 °F @ 760 mmHg Flash Point No information available

**Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper No data available Lower **Vapor Pressure** No information available

**Vapor Density** Not applicable

**Specific Gravity** No information available

Solubility Soluble in water Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** 

**Decomposition Temperature** No information available

Not applicable **Viscosity** 

Molecular Formula FΚ **Molecular Weight** 58.09

10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Stable under normal conditions. Hygroscopic.

**Conditions to Avoid** Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.

Strong oxidizing agents, Strong acids, Glass **Incompatible Materials** 

Hazardous Decomposition Products Hydrogen fluoride

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** Contact with acids liberates toxic gas.

# 11. Toxicological information

**Acute Toxicity** 

Product Information Component Information

 Component
 LD50 Oral
 LD50 Dermal
 LC50 Inhalation

 Potassium fluoride
 LD50 = 245 mg/kg ( Rat )
 Not listed
 Not listed

**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes eye burns

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium fluoride	7789-23-3	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

**Developmental Effects**No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium fluoride	Not listed	LC50: = 9.3 mg/L, 96h	Not listed	Not listed
		(Ctenopharyngodon idella)		

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Potassium fluoride	-0.77

#### **Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

**UN-No** UN1812

Proper Shipping Name POTASSIUM FLUORIDE, SOLID

Hazard Class 6.1 Packing Group III

<u>TDG</u>

**UN-No** UN1812

Proper Shipping Name POTASSIUM FLUORIDE, SOLID

Hazard Class 6.1 Packing Group III

<u>IATA</u>

UN-No UN1812

Proper Shipping Name POTASSIUM FLUORIDE, SOLID

Hazard Class 6.1 Packing Group III

IMDG/IMO

UN-No UN1812

Proper Shipping Name POTASSIUM FLUORIDE, SOLID

Hazard Class 6.1 Packing Group III

# 15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Cor	nponent	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	<b>ENCS</b>	AICS	IECSC	KECL
Potass	ium fluoride	Х	Χ	-	232-151-5	1		Χ	Χ	Х	Х	X

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

#### **OSHA** Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium fluoride	-	X	-	-	X

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

#### **U.S.** Department of Homeland Security

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade No information available

16. Other information	
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Prepared By Regulatory Affairs

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 Creation Date
 05-Oct-2010

 Revision Date
 18-Jan-2018

 Print Date
 18-Jan-2018

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**