

SAFETY DATA SHEET

Creation Date 05-Oct-2010	Revision Date 19-Jan-2018	Revision Number 5
	1. Identification	
Product Name	Potassium fluoride	
Cat No. :	AC201350000; AC201350010; AC201350025 AC201352500; AC201355000	; AC201350250;
CAS-No Synonyms	7789-23-3 No information available	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the sa	fety data sheet	
<u>Company</u> Fisher Scientific	Acros Organics	

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

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Emergency Telephone Number

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe: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	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Serious Eye Damage/Eye Irritation	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.

Most important symptoms and effects	Causes eye burns. C	auses severe eye d	amage.		
Notes to Physician	Treat symptomatically				
	5. Fire-fig	hting measu	ures		
Suitable Extinguishing Media	Substance is nonflam	mable; use agent r	nost appropriate to exting	guish surrounding fire.	
Unsuitable Extinguishing Media	No information availa	ble			
Flash Point Method -	No information availa No information availa				
Autoignition Temperature Explosion Limits Upper Lower Oxidizing Properties	No data available No data available Not oxidising				
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information availa No information availa				
Specific Hazards Arising from the (Keep product and empty container av		ces of ignition.			
As in any fire, wear self-contained bre protective gear. Thermal decomposition NFPA Health 3		of irritating gases ar		Physical hazards N/A	
	6. Accidenta	l release me	easures		
Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid dust formation.Environmental PrecautionsShould not be released into the environment. See Section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system.					
Methods for Containment and Clea Up	n Sweep up or vacuum formation.	up spillage and col	lect in suitable container	for disposal. Avoid dust	
		ng and stora	<u> </u>		
Handling			Vear personal protective formation. Do not breath	equipment. Do not get in e vapors/dust. Do not	
Storage	Keep containers tight	ly closed in a dry, c	ool and well-ventilated pl	ace.	
8. E	xposure contr	ols / persona	al protection		
Exposure Guidelines					
	GIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)	
Potassium fluoride TWA:	2.5 mg/m ³ (Vacate	d) TWA: 2.5 mg/m ³	IDLH: 250 mg/m ³	TWA: 2.5 mg/m ³	

<u>Legend</u>

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	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by 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.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard 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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	8-9 @ 20°C 50 g/l aq.sol
Melting Point/Range	860 °C / 1580 °F
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	
Upper	No data available
Lower	No data available
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
Viscosity	Not applicable
Molecular Formula	FK
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.
Incompatible Materials	Strong oxidizing agents, Strong acids, Glass
Hazardous Decomposition Product	s Hydrogen fluoride
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	Contact with acids liberates toxic gas.

LC50 Inhalation

Not listed

11. Toxicological information

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LD50 Dermal

Not listed

Acute Toxicity

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Product Information

Component Information	
Component	LD50 Oral
Potassium fluoride	LD50 = 245 mg/kg (Rat)

Toxicologically Syn Products	ergistic	No information available				
Delayed and immed	liate effects as	s well as chronic effects from short and long-term exposure				
Irritation		Causes eye burns				
Sensitization		No information available				
Carcinogenicity		The table below inc	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium fluoride	7789-23-3	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	ts	No information ava	ilable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information ava	ilable			

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 (Ctenopharyngodon idella)	Not listed	Not listed
Persistence and Degradability Soluble in water Persistence is unlikely based on information available.				lable.
Bioaccumulation/ Accumulation No information available.				
Mobility	Will likely b	Will likely be mobile in the environment due to its water solubility.		

Component	log Pow
Potassium fluoride	-0.77

13. Disposal considerations

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
TDG	
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	
IMDG/IMO	
UN-No	UN1812
Proper Shipping Name	POTASSIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing Group	
	15. Regulatory information

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

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Potassium fluoride	Х	Х	-	232-151-5	-		Х	Х	Х	Х	Х

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	-	Х	-	-	Х

U.S. Department of Transportation

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

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			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	05-Oct-2010 19-Jan-2018 19-Jan-2018 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