

SAFETY DATA SHEET

Creation Date 05-Oct-2010

Revision Date 09-Jun-2015

Revision Number 2

1. Identification

Product Name

Potassium fluoride

Cat No. :

AC201350000; AC201350010; AC201350025; AC201350250; AC201352500; AC201355000

Synonyms

No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available Details of the supplier of the safety data sheet

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

Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410

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
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Heart, Kidney.	

Label Elements

Signal Word Danger

Hazard Statements

Toxic if swallowed Toxic in contact with skin Causes serious eye damage Toxic if inhaled May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure



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 Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray **Response** Get medical attention/advice if you feel unwell **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		mediately with plenty of water, also under te medical attention is required.	the eyelids, for at least 15 minutes.
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.	
Inhalation	resuscita	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.	
Ingestion	Do not ir	nduce vomiting. Call a physician or Poison	Control Center immediately.

Causes eye burns. Treat symptomatically	
5. Fire-fighting measures	
Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.	
No information available	
No information available	
No information available	
No data available	
Upper No data available Lower No data available	
No information available	
No information available	

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

Hazardous Combustion Products

None known

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 3	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions Environmental Precautions Methods for Containment and C Up	and upwind of spill/leak. E Should not be released in information. Do not flush	Evacuate personnel to safe area to the environment. See Section into surface water or sanitary se	n 12 for additional ecological ewer system.
	7. Handling	and storage	
Handling		al fume hood. Wear personal pront of the second pront of the second dust formation. Do not of the second provide the second provided second provided second provided second s	otective equipment. Do not get in ot breathe vapors/dust. Do not
Storage	Keep containers tightly cl	osed in a dry, cool and well-ven	tilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium fluoride	TWA: 2.5 mg/m ³	(Vacated) TWA: 2.5 mg/m ³	
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV

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	
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

	5 1 1
Physical State	Solid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	8 - 9 @ 20°C 50 g/l aq.sol
Melting Point/Range	860 °C / 1580 °F
Boiling Point/Range	1505 °C / 2740 °F
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
Relative Density	2.48 g/cm3
Bulk Density	ca. 400 kg/m³
Solubility	< 920 g/1000 ml @ 20 °C
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	Decomposition Products None under normal use conditions	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	Contact with acids liberates toxic gas.	

11. Toxicological information

Acute Toxicity

Product Informatior Component Information						
Componen		LD50 Oral		LD50 Dermal	LC50	Inhalation
Potassium fluc	ride	245 mg/kg (Rat)		Not listed	No	t listed
Toxicologically Syn	ergistic	No information avail	able			
Products						
Delayed and immed	iate effects as w	ell as chronic effect	ts from short an	d long-term expo	osure	
Irritation		No information avail	able			
Sensitization		No information avail	able			
Carcinogenicity		The table below indi	icates 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 available				
Reproductive Effect	eproductive Effects No information available.					
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated ex		Central nervous system (CNS) Heart Kidney				
Aspiration hazard		No information available				
Symptoms / effects delaved	,both acute and	d No information available				
	r Information	No information available				
Endocrine Disrupto						

12. Ecological information

Ecotoxicity Do not empty into drains. Contains a substance which is:. Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium fluoride	Not listed	LC50>2.3 mg/L	Not listed	270 mg/l EC50 48h
Persistence and Degrada	ability Soluble in wa	ater Persistence is unlikely	based on information avai	lable.
Bioaccumulation/Accun	nulation No information	on No information available.		

Mobility

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	111			
TDG				
UN-No	UN1812			
Proper Shipping Name	POTASSIUM FLUORIDE, SOLID			
Hazard Class	6.1			
Packing Group	111			
<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				

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.

Yes Yes No No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable

SARA 311/312 Hazardous Categorization	
Acute Health Hazard	

Chronic Health Hazard Fire Hazard Sudden Release of Pre Reactive Hazard	ssure Hazard
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

State Right-to-Know

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

WHMIS Hazard Class

No information available

D2B Toxic materials

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

D1/ E	A Very toxic materials Corrosive material

16. Other information

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Creation Date05-Oct-2010Revision Date09-Jun-2015Print Date09-Jun-2015Revision SummaryThis 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 on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS