

Material Safety Data Sheet

HAZARD WARNING	as l	RISI	K PHRASES			PROTECTIVE CLOTHING	
	this material.	oxic compound, do not ingest or inhale. Avoid all contact with nis material. ygroscopic keep container tightly sealed.			tact with		
Section I. C	Chemical Prod	uct and Co	mpany Ide	entificat	ion		
Chemical Name		I m Fluor i rganic Chemist					
Catalog Number	P1758				Supplier	TCI America 9211 N. Harborgate St.	
Synonym	Not available.					Portland OR 1-800-423-8616	
Chemical Formula	KF						
CAS Number	7789-23-3				In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International	
Section II.	Composition a	nd Informa	tion on In	gredien	ts		
Chemical N	Vame	CAS Number	Percent (%)	1	TLV/PEL	Toxicology Data	
Potassium F (for General Organic		7789-23-3	Min. 98.0 (T)	Not available	e.	Rat LD_{50} (oral) 245 mg/kg Rat LD_{50} (intraperitoneal) 64 mg/k Mouse LD_{50} (intraperitoneal) 4003 μ g/kg	
Section III.	Hazards Identi	fication					
Acute Health Effects						sure may result in serious illness or death ent when handling this compound.	
	TOXIC EFFECTS: Effects on Embryo Specific Developm		city - Other develop	mental abnorr	nalities	n of health by an accumulation in one o	
Section IV. F	First Aid Measu	ures					
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.						
Skin Contact			enses. In case o	of contact, im	mediately flush	h eyes with plenty of water for at least 1	
		cal attention. immediately flush	skin with plenty	of water for a	t least 15 minu	h eyes with plenty of water for at least 1 utes while removing contaminated clothir et medical attention immediately.	
Inhalation	and shoes. Wash	cal attention. immediately flush clothing before reus	skin with plenty se. Thoroughly c m mouth-to-mou	of water for a lean shoes be th resuscitati	t least 15 minu efore reuse. Ge on. Loosen ti	utes while removing contaminated clothin	
Inhalation Ingestion	and shoes. Wash If the victim is no waistband. If breat improve. INDUCE VOMITIN Loosen tight clott resuscitation. Exa	cal attention. immediately flush clothing before reus breathing, perforr athing is difficult, c IG by sticking fing- ing such as a col	skin with plenty se. Thoroughly c m mouth-to-mou oxygen can be a er in throat. Lov lar, tie, belt or v nouth to ascertai	of water for a lean shoes be th resuscitati dministered. ver the head waistband. I n whether the	t least 15 minu fore reuse. Ge on. Loosen ti Seek medica so that the vor f the victim is tissues are da	utes while removing contaminated clothir et medical attention immediately. ight clothing such as a collar, tie, belt	
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Ingestion Section V. Flammability	and shoes. Wash If the victim is no waistband. If breat improve. INDUCE VOMITIN Loosen tight cloth resuscitation. Exa material was inges	cal attention. immediately flush clothing before reuse breathing, perforr athing is difficult, c IG by sticking finge ing such as a col mine the lips and m ted; the absence of sion Data	skin with plenty se. Thoroughly c m mouth-to-mou oxygen can be a er in throat. Lov lar, tie, belt or v nouth to ascertai such signs, how re. A	of water for a lean shoes be th resuscitati dministered. wer the head waistband. In n whether the ever, is not co	t least 15 minu efore reuse. Ge on. Loosen ti Seek medica so that the vor f the victim is tissues are dat onclusive.	utes while removing contaminated clothin et medical attention immediately. ight clothing such as a collar, tie, belt al attention if respiration problems do n mit will not reenter the mouth and throa not breathing, perform mouth-to-mou imaged, a possible indication that the tox	
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Ingestion Section V. F Flammability Flash Points	and shoes. Wash If the victim is no waistband. If brea- improve. INDUCE VOMITIN Loosen tight cloth resuscitation. Exa material was inges Fire and Explos May be combustibl Not available. Some metallic oxid	cal attention. immediately flush clothing before reus breathing, perforr athing is difficult, c IG by sticking finge ing such as a col mine the lips and m ted; the absence of sion Data e at high temperatu es, halogenated co	skin with plenty se. Thoroughly c m mouth-to-mou oxygen can be a er in throat. Low lar, tie, belt or v nouth to ascertai such signs, how re. A - Flai - mpounds.	of water for a lean shoes be th resuscitati dministered. wer the head waistband. It n whether the ever, is not co 	t least 15 minu efore reuse. Ge on. Loosen ti Seek medica so that the vor f the victim is tissues are dat onclusive.	utes while removing contaminated clothin et medical attention immediately. ight clothing such as a collar, tie, belt al attention if respiration problems do n mit will not reenter the mouth and throa not breathing, perform mouth-to-mou imaged, a possible indication that the tox	
Ingestion Section V. F Flammability Flash Points Combustion Products	and shoes. Wash If the victim is no waistband. If bre- improve. INDUCE VOMITIN Loosen tight cloth resuscitation. Exa material was inges Fire and Explose May be combustible Not available. Some metallic oxid WARNING: Highly	cal attention. immediately flush clothing before reus breathing, perforr athing is difficult, c IG by sticking finge ing such as a col mine the lips and m ted; the absence of sion Data e at high temperatu es, halogenated co toxic HF gas is proc	skin with plenty se. Thoroughly c m mouth-to-mou part in throat. Low lar, tie, belt or v nouth to ascertain such signs, how re. A Flar - mpounds. duced during con	of water for a lean shoes be th resuscitati dministered. wer the head waistband. I n whether the ever, is not co uuto-Ignition mmable Lim nbustion.	t least 15 minu fore reuse. Ge on. Loosen ti Seek medica so that the vor f the victim is tissues are da onclusive.	utes while removing contaminated clothin et medical attention immediately. ight clothing such as a collar, tie, belt al attention if respiration problems do n mit will not reenter the mouth and throa not breathing, perform mouth-to-mou imaged, a possible indication that the tox	

Emergency phone number (800) 424-9300

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Section VI.	Accidental Release Measu						
Spill Cleanup Instructions	Toxic material. Hygroscopic material. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consul federal, state, and/or local authorities for assistance on disposal.						
Section VII.	Handling and Storage						
Handling and Storage Information	seal the container and store in a dry, o	cool place. Avoid excessive heat ar gested, seek medical advice immedia	nical exhaust required. When not in use, tighth nd light. DO NOT ingest. Do not breathe dust ately and show the container or the label. Trea acids, moisture.				
Section VIII.	Exposure Controls/Person	•	,				
Engineering Controls		Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants					
Personal Protection		Splash goggles. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this					
Exposure Limits	Not available.						
Section IX.	Physical and Chemical Pro	operties					
Physical state @ 20°C	Solid. (White crystal ~ powder.)	Solubility	Very soluble in water.				
Specific Gravity	2.48 (water=1)		Insoluble in alcohol.				
Molecular Weight	58.10	Partition Coefficient	Not available.				
Boiling Point	1505 °C (2741 °F)	Vapor Pressure	0.1 kPa (@ 885℃)				
Melting Point	858 ℃ (1576.4 °F)	Vapor Density	Not available.				
Refractive Index	1.36	Volatility	Not available.				
Critical Temperature	Not available.	Odor	Odorless.				
Viscosity	Not available.	Taste	Not available.				
Section X.	Stability and Reactivity Da	ta					
Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)						
Conditions of Instability	Avoid excessive heat and light. Hygroscopic; keep container tightly closed.						
Incompatibilities	Reactive with oxidizing agents, acids, m	noisture.					
Section XI.	Toxicological Information						
RTECS Number	TT0700000						
Routes of Exposure	Eye Contact. Ingestion. Inhalation.						
Toxicity Data	Rat LD ₅₀ (oral) 245 mg/kg Rat LD ₅₀ (intraperitoneal) 64 mg/kg Mouse LD ₅₀ (intraperitoneal) 40030 µg/kg						
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not avai MUTAGENIC EFFECTS : Not available TERATOGENIC EFFECTS : Not available DEVELOPMENTAL TOXICITY: Reprod Mouse TDLo Intraperitoneal 1050 mg/kg TOXIC EFFECTS: Effects on Embryo or Fetus - Fetotoxicit Specific Developmental Abnormalities - Developmental Abnormalities -	e. able. luctive effects. g, female 1-21 days of pregnancy ty Other developmental abnormalities	tion of health by an accumulation in one or man				
	human organs.	laterial may produce general deteriora					

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Section XII.	Ecological Information			
Ecotoxicity	Not available.			
Environmental Fate	Not available.			
Section XIII.	Disposal Considerations			
Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe al federal, state and local regulations when disposing of the substance.			
Section XIV.	Transport Information			
DOT Classification	DOT CLASS 6.1: Toxic material			
PIN Number	UN1812			
Proper Shipping Name	Potassium fluoride, solid			
Packing Group (PG)				
DOT Pictograms	POISON			
Section XV.	Other Regulatory Information and Pictograms			
TSCA Chemical Inventor (EPA)				
WHMIS Classification (Canada)	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). On DSL.			
EINECS Number (EEC	232-151-5			
EEC Risk Statements	R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.			
Japanese Regulatory Dat	ENCS No. 1-322			
Section XVI.	Other Information			
Version 1.0 Validated on 9/23/2010. Printed 9/23/2010.				

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and hoh ave been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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