

NAVIN FLUORINE INTERNATIONAL LTD		web: http://www.nfil.in mailto: bulkfluoride@nfil.in
		2nd Floor, Suntek Centre, 37/40, Subhash Road, Vile Parle (East), Mumbai-400057. India.

PRODUCT SPECIFICATION	
Title: POTASSIUM FLUORIDE/STAR (KF)	Document No. : NFIL/QC/SPEC/FP/061/00 Effective Date : 05/11/2008

Material Code : FLU008007, FLU008012

Packing : UN-Certified / 25 kg Bags.

Storage Specifications : Stored in dry condition at room temperature.

Structural Formula : $K^+ F^-$

Molecular Formula : KF

Molecular Weight : 58.09

Synonyms : Potassium monofluoride

Sr. No.	TEST	SPECIFICATION
		Normal Quality
Product Specification:		
1	Appearance/Description	White Powder
2	Purity as KF	98.5% Min.
3	Moisture (Loss on drying at 110°C)	1.0% Max.

- Customer should discuss with business unit at bulkfluoride@nfil.in for the other requirements than specified.
- Analytical Method No. **NFIL/QC/WI/FP/061**.



NAVIN FLUORINE
INTERNATIONAL LIMITED

MATERIAL SAFETY DATA SHEET (MSDS)

Potassium Fluoride

1. CHEMICAL IDENTITY

Chemical name	Potassium Fluoride
Synonym	None
Chemical Formula	KF

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients Name	Potassium Fluoride	CAS No.: 7789-23-3
		EC No. : 232-151-5

3. PHYSICAL / CHEMICAL DATA

Boiling Point	1505 ⁰ C	Vapour Pressure	1@ 885C (1625F)
Melting Point	860 ⁰ C	Solubility in water	Appreciable in water.
Vapour Density	2.0	Appearance	White powder
Specific Gravity	2.48		
pH	No information found	Odour	Odorless
Physical State	Solid	Other	


4. FIRE / EXPLOSION HAZARD DATA

Flammability	Not considered to be a fire hazard	Flash Point	NA
Auto ignition temperature	Not Available	LEL	Not Available
Explosion sensitivity to impact	Not considered to be an explosion hazard.	UEL	Not Available
Explosion sensitivity to static electricity	NA		
Hazardous Combustion products	Burning may produce hydrogen fluoride vapors		
Hazardous Polymerization	Will not occur.		
Pyrophoric material	NA	Corrosive	NA
Organic Peroxide		Oxidizer	NA
Explosive material	Not considered to be an explosion hazard.	Other	

5. STABILITY & REACTIVITY DATA

Chemical Stability	Stable under normal temperatures and pressures. Attracts moisture from the air.
Incompatibility	Platinum plus bromine Trifluoride; reacts with strong acids to form hydrogen fluoride. Corrodes glass and porcelain.
Conditions to avoid	Moisture & incompatibles.
Hazardous reaction / decomposition products.	Burning may produce hydrogen fluoride vapors

6. HEALTH HAZARD DATA	
Effects of exposure / symptoms	<p>Inhalation: May cause irritation and burns to the respiratory tract, symptoms may include coughing, sore throat, and labored breathing. May be absorbed through inhalation of dust; symptoms may parallel those from ingestion exposure. Irritation and burning effects may not appear immediately.</p> <p>Ingestion: May cause salivation, nausea, vomiting, diarrhea, and abdominal pain, followed by weakness, tremors, shallow respiration, card pedal spasm, convulsions, and coma. May cause brain and kidney damage. Death may be caused by respiratory paralysis. Affects heart and circulatory system.</p> <p>Skin Contact: Causes severe irritation and possibly burns to the skin. May be absorbed through the skin. Effects may not appear immediately.</p> <p>Eye Contact: Causes irritation. May be extremely irritating with possible burns to eye tissue and permanent eye damage may result.</p> <p>Chronic Exposure: Chronic exposure may cause mottling of teeth and bone damage (osteosclerosis) and fluorosis. Symptoms of fluorosis include brittle bones, weight loss, anemia, calcified ligaments, general ill health and joint stiffness.</p>
7. TOXICOLOGICAL INFORMATION	
LD 50	Oral rat LD50: 245 mg/kg. Investigated as a mutagen, reproductive effector.
Exposure Limit	OSHA Permissible Exposure Limit (PEL):2.5 mg (F)/m3 (TWA)
8. ECOLOGICAL INFORMATION	
No information found. Env. Toxicity: No information found.	
9. PREVENTIVE MEASURES / EXPOSURE CONTROL / PERSONAL PROTECTION	
Engineering Control	Use process enclosures, local exhaust ventilation, or other engineering control to keep airborne levels bellow recommended exposure limit. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protective Equipment	<p>Eyes: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.</p> <p>Skin: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.</p> <p>Clothing:</p> <p>Respirators: A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest.</p>
10. HANDLING & STORAGE	
Normal handling Storage Recommendation	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from acids and alkalis. Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

11. EMERGENCY / FIRST AID MEASURES		
Fire	Fire Extinguishing Medium	Use any means suitable for extinguishing surrounding fire. Water spray will also reduce fumes and irritant gases.
Exposure / First Aid Measure	Inhalation	Remove the subject from the contaminated area as soon as possible, transport him/her lying down, with the head higher than the body to a quiet, in contaminated and well-ventilated location, oxygen or cardiopulmonary resuscitation if necessary, keep warm (blanket)
	Skin	Remove contaminated shoes, socks and clothing, wash the affected skin with soap and water.
	Eyes	Flush eyes with running water for several minutes, while keeping the eyelids wide open.
	Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing. Get medical attention if symptoms appear.
Special Procedure	Use NIOSH approved self contained positive pressure breathing apparatus with full face piece and protective clothing.	
12. ACCIDENTAL RELEASE MEASURE		
Spills/Leaks	Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.	
13. DISPOSAL CONSIDERATIONS		
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.		
14. TRANSPORT INFORMATION		
Proper shipping Name	POTASSIUM FLUORIDE, SOLID	
Hazard Class	6.1	
UN Number	1812	
Packing Group	III	
Hazard Label		
15. REGULATORY INFORMATION		
Federal, state & International Regulations. National fire protection association (U.S.A.) Health 3, Flammability 0, Reactivity 0,		
16. NAME OF FIRM - NAVIN FLUORINE INTERNATIONAL LIMITED		
Mailing address	Post Office - Bhestan, Surat, PIN 395 023, Gujarat, India	
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