MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
1533 W.Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. PP563
Effective Date November 16, 1998

SECTION I NAME

Product	POTASSIUM FLUORIDE
Chemical Synonyms	Potassium Fluoride
Formula	KF
Unit Size	up to 2.5 Kg.
C.A.S. No.	7789-23-3

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
800-424-9300
Day 716-226-6177

Health	3
Fire	0
Reactivity	1

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4
HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Fluoride	100%	See Section V.

DANGER! POISON MAY BE FATAL IF SWALLOWED. CAUSES EYE BURNS.

HARMFUL IF INHALED. CAUSES SKIN AND EYE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	859°C (1579°F)	Specific Gravity (H_2O = 1)	2.481
Boiling Point (°F)	1505°C (2741°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	92.3 gm. per 100 mL. at 18°C		
Appearance & Odor	White crystalline deliquescent powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume NA	Lower - - - - - - - -	Upper - - - - - - - -
Extinguisher Media	Use water in flooding quantities as fog or spray.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Dust presents a respiratory and eye hazard.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with acid to liberate corrosive and toxic hydrogen fluoride. When Potassium Fluoride is dissolved in water, toxic and corrosive hydrofluoric acid is formed.

D.O.T. **POTASSIUM FLUORIDE, 6.1, UN 1812, PG III**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA PP 563

Threshold Limited Value
TWA: Fluorides as (F) Fluorine (CAS NO. 16984-48-8): 2.5 mg/m^3.
(ACGIH 1992-93) OSHA: TLV-TWA 2.5 mg/m^3

Effects of Overexposure
Absorption into the blood of fluoride ions by any route can cause acute systemic poisoning. **INHALATION:** Irritation to mucous membranes and toxic when inhaled. Chills, labored breathing, fever, unproductive cough. **SKIN:** May cause dermatitis if exposed to dust or fumes. **EYES:** Causes eye burns. **INGESTION:** Severe vomiting, abdominal distress, diarrhea, stupor, weakness.

Emergency and First Aid Procedures
INGESTION: If swallowed, do **NOT** induce vomiting. If conscious, give water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person. **EYES:** Immediately flush with large amounts of water for 15 minutes, lifting upper and lower eyelids occasionally. Get prompt medical attention. **SKIN:** Flush with plenty of soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	**Unstable**		**Conditions to Avoid**
	Stable	X	Excessive temperatures and heat.

Incompatibility (Materials to Avoid)
Reacts with acids to form corrosive and toxic hydrogen fluoride.
Water solution is highly corrosive to many materials.

Hazardous Decomposition Products
Toxic fluoride containing vapors may be released on heating to high temperatures.

Hazardous Polymerization		**Conditions to Avoid**
May Occur	**Will Not Occur**	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Recover for use if not contaminated. Do not touch spilled material. Avoid inhalation and skin contact. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in suitable container (polethylene bags) for disposal. Flush spill area with water. Do not allow wash water to pollute water ways and streams.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation	**Local Exhaust**	Recommended.	**Special**	No.
	Mechanical (General)	Recommended.	**Other**	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety goggles or face shield where appropriate.

Other Protective Equipment Smock, apron, goggles, ventilation hood, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Keep container tightly closed when not in use.
Store in a cool, dry place away from acids, alkalies and heat sources. Crystals are hygroscopic. Wash thoroughly after handling. Caution: Attracts moisture from air.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.
Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	11/16/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR