

MSDS

POTASSIUM FLUORIDE AQUEOUS SOLUTIONS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 6115, PX-929, R6098000	
Product Identity: POTASSIUM FLUORIDE AQUEOUS SOLUTIONS	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 4TCW6, 0V553, 4XZQ2	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 2/12/01	Revision: 3 Last Revised: 07/20/2006 Date Printed: 08/13/2008 5:39:14 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available
Potassium Fluoride	7789-23-3	1 - 10	Not Available	Not Available
			2.5 mg/m3	2.5 mg/m3

Section 3: Hazard Identification

Emergency Overview: Toxic and Corrosive! May be fatal if swallowed. Avoid ingestion and contact with skin, eyes, or clothing. If swallowed, give large quantity of water or milk and induce vomiting. Vomiting may occur spontaneously. Call a physician immediately. Wash areas of contact with plenty of water for 15 minutes. For eyes, get medical attention.

Target Organs: eyes, skin, respiratory system, central nervous system, skeleton, kidneys.

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: May cause irritation.

Skin Contact: May cause irritation and possible burns to the skin. May be absorbed through the skin. Effects may not appear immediately.

Ingestion: May cause salivation, nausea, vomiting, abdominal pain, diarrhea, kidney damage.

Chronic Effects/Carcinogenicity: Chronic exposures may cause mottling of teeth and bone damage and fluorosis. Symptoms of fluorosis include brittle b

IARC - No.

NTP - No.

OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Potassium Fluoride.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Potassium Fluoride.

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Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Wipe off any excess material from skin and then immediately flush with plenty of soap and water for at least 15 minutes. Apply bandages soaked in Magnesium Sulfate.

Ingestion: Administer with milk, chewable calcium carbonate tablets or milk of magnesia. Vomiting may occur spontaneously. Do not induce. Call a physician immediately.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Wear gloves to protect from absorption through skin. Cover with soda ash-slaked lime mixture. Scoop into beaker of water. Neutralize with 6 Normal Hydrochloric Acid. Flush neutralized solution to drain with excess water.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: Health

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

pH: Not Available.

Odor: Odorless

Boiling Point(°C): Approximately 102

Solubility in Water: Infinite

Melting Point(°C): Approximately -5

Specific Gravity: Approximately 1.0 - 1.1

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Platinum plus Bromine Trifluoride, reacts with strong acids to form Hydrogen Fluoride. Corrodes glass and porcelain.

Hazardous Decomposition Products: Can emit Hydrogen Fluoride vapors when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: 245 mg/kg (Potassium Fluoride), details of toxic effects not reported other than lethal dose value.

Section 12. Ecological Information

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Ecotoxicological Information: No information found.

Chemical Fate Information: No information found.

Section 13. Disposal Considerations

Add slowly to a large container of water. Stir in slight excess of soda ash and slaked lime. Let stand 24 hours. Decant or siphon into another container (plastic) and neutralize with 6 Normal Hydrochloric Acid before flushing to drain with excess of water. Sludge may be added to landfill. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers: 6115-2.5, 6115-32, PX-929 4-LT, PX-929 500ML, PX-929 LT, R6098000-1A

D.O.T. Shipping Name: Potassium Fluoride solution

D.O.T. Hazard Class: 6.1

U.N. / N.A. Number: UN3422

Packing Group: III

D.O.T. Label: III



Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: Acute, Chronic: Yes Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: None Reported.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: None Reported.

WHMIS: D-1B Poisonous and Infectious Material. Materials causing immediate and serious toxic effects - Toxic Material. D-2B: Poisonous and Infectious Material. Materials causing other toxic effects - Toxic Material.



Section 16. Other Information

NFPA Ratings:

Health: 2

Flammability: 0

Reactivity: 0

Special Notice Key: None

HMIS Ratings:

Health: 2

Flammability: 0

Reactivity: 0

Protective Equipment: B (Protective Eyewear, Gloves)

Rev 1, 10-09-2001: Reformatted to electronic data format.

Rev 2, 09-09-2005: (Section 15) revised WHMIS information, removed E, added D-2B.

Rev 3, 07-20-2006: (Section 1) added catalog number R6098000 and Red Bird catalog number PX-929; (Section 14) revised DOT information from Toxic liquid, inorganic, nos (Potassium Fluoride), UN3287 due to DOT change.



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For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

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When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.