

1. Product and Company Identification

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Product Name Potassium Fuloride Solution - 1 Mole
Product Type RXSOL-60-6237-100

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Potassium Fluoride	CAS# 13455-21-2	9.413	w/V	
Water, Deionized ASTM Type II	CAS# 7732-18-5	90%	V/V	None Established

3. Hazards Identification

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May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview:POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. INHALATION MAY CAUSE LUNG AND TOOTH DAMAGE. FLAMMABLE LIQUID AND VAPOR. CORROSIVE!

Inhalation:Inhalation of Vapors can cause Coughing, Choking, Inflammation, of the Nose, Throat,and Upper Respiratory Tract, and in Severe Cases, Pulmonary Edema, Circulatory Failure, and Death.

Ingestion:CORROSIVE! Swallowing can cause Immediate Pain and Burns of the Mouth, Throat,Esophagus, and Gastrointestinal Tract. May cause Nausea, Vomiting, and Diarrhea, and in Severe Cases, Death.

Skin:CORROSIVE! Can cause Redness, Pain, and Severe Skin Burns. Concentrated Solutions Cause Deep Ulcers and Discolor of Skin.

CORROSIVE! Vapors are Irritating and May cause Damage to Eyes. Contact May cause Severe Burns and Permanent Eye Damage.

Chronic Exposure:Eye Contact:Long-Term Exposure to Concentrated Vapors May cause Erosion of Teeth. Long-Term Exposures Seldom Occur due to the Corrosive Properties of the Acid.

Aggravated by Exposure:Persons with Pre-Existing skin Disorders or Eye Disease May be more Susceptible to the Effects of this Substance.

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts.Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling

SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.
EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally.Seek Medical Aid.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If

INGESTION:

breathing is difficult, give oxygen

If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

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Fire Extinguisher Type:

Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards:

None

Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing to protect skin and clothing.

6. Accidental Release Measures

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Dispose of in a manner consistent with federal, state and local regulations.

Ventilate Area of Leak or Spill. Keep Unnecessary and Unprotected People away from Area of Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Collect Liquid in a Appropriate Container and Absorb with Dry Sand, Vermiculite, Earth or other Inert Substance and Package in a Suitable Container for Disposal. Do Not Flush to Sewer!

7. Handling and Storage

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Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

8. Exposure controls and personal protection

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Respiratory Protection

NIOSH/MSHA-approved respirator

Ventilation

Local

OTHER

Mechanical

Protective Gloves

NIOSH Approved Gloves

EYE PROTECTION

Goggles and Face Shield

Other Protective Equipment

Wear appropriate clothing to prevent skin exposure

9. Physical and chemical properties

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BOILING POINT

information not available

VAPOR PRESSURE

information not available

MELTING POINT

information not available

VAPOR DENSITY

not available

EVAPORATION RATE

information not available

Appearance /Odors

Clear,colorless,odorless liquid

Flash Point

information not available

Specific Gravity

information not available

Percent Volatile by

~94%

Evaporation Standard

Not applicable

Air Saturated Vapor

Not applicable

Lower Flamm. Limit in Air

Not applicable

Upper Flamm. Limit in Air

Solubility in Water

Soluble

10. Stability and reactivity

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STABILITY

CONDITIONS TO AVOID	Contact with incompatible materials
MATERIALS TO AVOID	Oxidizers, corrosives, quinine & calcium salts
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen fluoride gas
HAZARDOUS POLYMERIZATION	will not occur
Conditions to Avoid	None known

11. Toxicological information

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Hydrogen Chloride - IARC Category 3, NTP Carcinogen - Known: No

12. Ecological information

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Environmental Fate:No Information Found.

Environmental Toxicity:No Information Found.

13. Disposal considerations

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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements..

14. Transport information

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DOT Classification: UN1789, Hydrochloric Acid Solution, 8,PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

15. Regulatory information

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CAS# 13455-21-5 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory.

16. Other information

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Conditions aggravated/target organs: Irritation to eyes, respiratory system. Severe irritation or burns to skin and eyes. May cause cyanosis and lung injury with 1-2 day delay. Overexposure may result in fluorosis. Ingestion may cause burns to GI tract. Target organs: Skin, eyes, respiratory tract, GI tract, bones, circulatory

Flammability

Health

Reactivity

Revisions
7/30/2010

NFPA
0.1 updated msds to 16 section from 10 section msds. STN
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