

# 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6238-100  
Product Type Fluoride Ion Solution 0.0100 Molar

## 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
Fluoride Ion	CAS# 14601-20-6	9.413	W/V	
Water, Deionized ASTM Type II	CAS# 7732-18-5	90.587	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. INHAULATION MAY CAUSE LUNG AND TOOTH DAMAGE. FLAMMABLE LIQUID AND VAPOR. CORROSIVE.

**Irritation:** Irritation of Vapors can cause Coughing, Choking, Inflammation, of the Nose, Throat, and Upper Respiratory Tract, and in Severe Cases, Pulmonary Edema, Cerebral Edema, and Death.

**Ingestion:** CORROSIVE/ IRRITATING can cause Irritation, Pain and Burns of the Mouth, Throat, Esophagus, and Gastrointestinal Tract. May cause Nausea, Vomiting, and Diarrhea, and in Severe Cases, Death.

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

**Corrosive/ Irritating:** 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 Damage of Teeth. Long Term Exposure Sickness Occur due to the Corrosive Properties of the Acid.

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

# 4. First Aid Measures

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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.

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

INHALATION:

minutes, lifting lids occasionally.  
Seek Medical Aid.

INGESTION:

Remove to fresh air. If not breathing, give artificial respiration. If 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 Extinguisher Remarks:

None

Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with toxic and irritating

## 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 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

Information not available

EVAPORATION RATE

Information not available

Appearance /Odors

Clear, colorless, odorless liquid

Flash Point

not determined

Information not available

## Specific Gravity

Pressure Viable by	Not applicable
Evaporation Standard	
Air Spillage Temp	Not applicable
Lower Flamm. Limit in Air	Not applicable
Upper Flamm. Limit in Air	Not applicable

Solubility in Water Soluble

## 10. Stability and reactivity

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### STABILITY

CONDITIONS TO AVOID Contact with incompatible materials

### MATERIALS TO AVOID

Oxidizers, carbonates, cyanides & 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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Carcinogenic References: IARC Category- None, NTP Carcinogen - Known: No

## 12. Ecological information

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No Information Found.

## 13. Disposal considerations

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Waste must be disposed of in accordance with federal, state and local environmental control regulations

## 14. Transport information

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DOT Classification: Not Regulated

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

## 15. Regulatory information

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All components are listed on TSCA 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 system, joints.

Flammability

## Revisions

NFPA

7/30/2010

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