

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6212-100  
Product Type Ammonium Fluoride 10% Solution

### 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
Ammonium Fluoride	CAS# 12276-64	~10%	W/V	None established
Water, Deionized ASTM Type II	CAS# 7732-18-5	90%	V/V	None Established

## 3. Hazards Identification

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May be fatal if inhaled, swallowed or absorbed thru the skin. Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. Keep container closed.

Emergency Overview: Danger! May be fatal if swallowed or inhaled. Early symptoms include nausea, vomiting, diarrhea, and weakness. Later effects include central nervous system effects, cardiovascular effects, and death. Affects respiratory system, heart, skeleton, circulatory system, central nervous system and kidneys. Causes irritation and burns to skin, eyes and respiratory tract. Irritation and burn effects may be delayed. Harmful if absorbed through skin.

Inhalation: May Cause Irritation and Burns to the Respiratory Tract; Symptoms May Include Coughing, Sore Throat, and Labored Breathing. Irritation and Burning Effects May Not Appear Immediately.

Ingestion: May cause Salivation, Nausea, Vomiting, Diarrhea, and Abdominal Pain, Followed by Weakness, Tremors, Shallow Respiration, Cardopedal Spasm, Convulsions, and Coma. May Cause Brain and Kidney Damage. Death May Caused by Respiratory Paralysis. Affects Heart and Circulatory System.

Skin: Causes Severe Irritation and Possibly Burns to the Skin. May be Absorbed through the Skin. Effects may not Appear Immediately.

Eye Contact: Causes Irritation. May be Extremely Irritating with Possible Burns to Eye Tissue and Permanent Eye Damage may Result.

Chronic Exposure: Chronic Exposure may Cause Mottling of Teeth and Bone Damage (osteosclerosis) and fluorosis. Symptoms of Fluorosis Include Brittle Bones; Weight Loss, Anemia, Calcification of ligaments, general ill Health and Joint Stiffness.

Aggravated by Exposure: Populations that Appear to be at increased Risk from the Effects of Fluoride are Individuals that Suffer from Diabetes insipidus or some forms of Renal Impairment.

## 4. First Aid Measures

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May be fatal if inhaled, swallowed or absorbed thru the skin. Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. Keep

container closed.

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 breathing is difficult, give oxygen
INGESTION:	If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

## 5. Fire-fighting Measures

[www.rxmarine.com](http://www.rxmarine.com)

Fire Extinguisher Type:

All information available for subsequent  
referencing file

Fire / Explosion Hazards:

None Known

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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Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Spills: Ventilate area of Leak or Spill. Allow Only Qualified Personnel to Handle Spill. Clean-Up Personnel Require Protective Clothing and Respirator Protection from Vapors. Absorb Material with Paper Towel and Place in a Closed Container for recovery or disposal Do Not Flush to Sewer! Decontaminate Liquid Residues in Spill Area with Sodium or Calcium Hypochlorite Solution. US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

## 7. Handling and Storage

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Store in a cool dry place. Do not get on skin, on skin, on clothing. Wash thoroughly after handling

## 8. Exposure controls and personal protection

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Respiratory Protection	None required
Ventilation	Local
OTHER	Mechanical
Protective Gloves	Gloves to prevent skin exposure as rubber or vinyl
EYE PROTECTION	Splash Goggles
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	not available
MELTING POINT	Information not available
VAPOR DENSITY	not available
EVAPORATION RATE	1
Appearance /Odors	Colorless, odorless liquid

Flash Point	not flammable
Specific Gravity	Information not available
Precise Volume by	-005
Evaporation Standard	
Auto Ignition 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	see incompatibilities
MATERIALS TO AVOID	Flammable oxidizers, oxidizing materials, alkaline earth metals and calcium carbide, acetylene gas.
HAZARDOUS DECOMPOSITION PRODUCTS	Exotic hydrogen fluoride, HF and ammonia
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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Environmental Fate: No Information Found.

Environmental Toxicity: This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.

## 13. Disposal considerations

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What ever cannot be Saved for Recovery or Recycling should be Managed in an Appropriate and Approved Waste Facility. Dispose of Container and Unused Contents in Accordance with Federal, State, and Local Requirements.

## 14. Transport information

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DOT Classification: UN3287, Toxic Liquid, Inorganic, n.o.s. (Ammonium Fluoride), 6.1, PG III

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

## 15. Regulatory information

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Chemical Inventory Status ☐  
 Part 1: Ingredient  
 Ammonium Fluoride (12125-01-8)  
 TSCA Yes  
 EC Yes  
 Japan YES  
 Australia Yes

Chemical Inventory Status ☐  
 Part 2: Ingredient

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Ammonium Fluoride (12125-01-8)

Korea Yes  
DSL Yes  
NDSL No  
Phil. Yes

Federal, State & International Regulations ⓘ

Part 1: Ingredient.

Ammonium Fluoride (12125-01-8)

RQ No  
TPQ No  
List NO

Chemical Catg: No

Federal, State &

International Regulations ⓘ

Part 2: Ingredient

Ammonium Fluoride (12125-01-8)

CERCLA NO  
261.33 No  
8(d) No

Chemical Weapons Convention: No

TSCA 12 (b):No

CDTA:No PURE/LIQUID

SARA 311/312: Acute: YES

Chronic: YES

Fire: No

Pressure: No

Reactivity: No

Australian Hazchem Code: 2X

Poison Schedule: None allocated

## 16. Other information

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Danger! May be fatal if swallowed or inhaled. Early symptoms include nausea, vomiting, diarrhea and weakness. Later effects include central nervous system effects, cardiovascular effects and death. Affects respiratory system, heart, skeleton, circulatory system, central nervous system and kidneys. Causes severe irritation to tissues of the mucous membranes, upper respiratory tract, eyes and skin. Persons with pre existing eye, skin or respiratory conditions may be more susceptible. Ingestion may cause tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Death may be caused by

Flammability

Health

Reactivity

Revisions

7/30/2010

NFPA

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

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