

# 1. Product and Company Identification

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Product Name RXSOL-60-6282-500  
Product Type Hydrochloric Acid 1.0 Normal 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
Hydrochloric Acid	CAS# 7647-01-0	~91%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m <sup>3</sup>
Water, Deionized ASTM Type II	CAS# 7732- 18-5	91.4%	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/Pictogram/ Danger/ Contents: Liquid and vapor cause serious burns to all body tissue. May be fatal if swallowed or inhaled.

Respiratory/Contents/ Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract, and in severe cases, pulmonary edema, chest/laryngeal failure, and death.

Ingestion/Contents/ Swallowing hydrochloric acid 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/Contents/ Can cause redness, pain, and severe skin burns. Concentrated solutions cause deep ulcers and discolor of skin.

Eye Contact/Contents/ Vapors are irritating and may cause damage to eyes. Contact may cause serious burns and permanent eye damage.

Chronic Exposure/Long term exposure to concentrated vapors may cause irritation of lungs. Long term exposure without occur due to the corrosive properties of the acid.

Approved by Exposure/Pictogram with gas existing skin disorders or eye disease 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:

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:

Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

## 5. Fire-fighting Measures

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Fire Categories Type

Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazard

None

Fire Fighting Procedure

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

## 6. Accidental Release Measures

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Always spill with best material, then place in a chemical waste container. Neutralize with a weak base.

Disperse with Water and Flush to Source of Local Outfall. After Observation, Wherein Cannot be Treated for Recovery or Recycling, should be Managed in an Appropriate and Approved Waste Disposal Facility. Properly, Use or Contamination of this Product may Change the Waste Management System. State and Local Disposal Regulation May Differ from Federal Disposal Regulation. Disposal of Container and Content in Accordance with Federal, State and Local Requirements.

## 7. Handling and Storage

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Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling. Do not reuse containers. Keep out of direct sunlight and away from heat, water and incompatible materials.

## 8. Exposure controls and personal protection

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Respiratory Protection

None required

Ventilation

Local

OTHER

Mechanical

Protective Gloves

Wear appropriate gloves to prevent skin exposure

EYE PROTECTION

Splash Goggles

Other Protective Equipment

Wear appropriate clothing to prevent skin exposure, impervious boots, apron or coveralls as needed.

## 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 liquid/no
Flash Point	Information not available
Specific Gravity	> 1
Evaporation Rate	> 95%
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

MATERIALS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION

Conditions to Avoid

Avoid Light

H2O2, azo, azoxy, peroxide, peroxy

HCl, Fluorine, Chlorine

Will Not Occur

None known

## 11. Toxicological information

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Carcinogenic Reference: Hydrogen Chloride - IARC Category 3, NTP Carcinogen - Known to

## 12. Ecological information

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Environmental Fate: When Released into the Soil, this Material is Not Expected to Biodegrade. When Released into the Soil, this Material may Leach into Groundwater.

Environmental Toxicity: This material is expected to be toxic to aquatic life.

## 13. Disposal considerations

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Dispose with water and flush to sewer if local authorities allow, otherwise, whenever cannot be used for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Pre-treatment, use or combination of this product may change the waste management option. State and local disposal regulations may differ from federal disposal regulations. Degree of container and vessel contents to be discarded, state and local requirements.

## 14. Transport information

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DOT Classification: UN1769, 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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Chemical Inventory Status:  
Part 1 Regulated  
Hydrogen Chloride (267-00-00)  
Water (7732-18-7)  
TSCA: Yes YES  
RCRA: Yes YES  
PPE: Yes YES  
Airborne: Yes YES

Chemical Inventory Status:  
Part 2 Regulated  
Hydrogen Chloride (267-00-00)  
Water (7732-18-7)  
Kerosene: Yes YES  
DSL: Yes YES  
MSHA: No NO  
PPE: Yes YES

Federal, State & International Regulations:  
Part 1 Regulated  
Hydrogen Chloride (267-00-00)  
Water (7732-18-7)  
RQ: 5000 No  
TSCA: 200 No  
LHA: YES NO  
Chemical/Reg: No

Product Name:  
Inventory Regulation:  
Part Number:  
Material Class:  
Date:  
Rev:  
Rev:  
Rev:

Chemical Program Classification No:  
GHS 12:  
GHS 13:  
GHS 14:  
GHS 15:  
GHS 16:  
GHS 17:  
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## 16. Other information

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Poison! Danger! Corrosive! Liquid and mist cause severe burns to all body tissue. May be fatal if swallowed or inhaled. Conditions aggravated/target organs: Corrosive! Persons with preexisting skin, eye and respiratory disorders may be more susceptible. Acute: Severe irritation or burns to skin, eyes, respiratory tract and digestive tract. Chronic: Dermatitis, erosion of teeth, eye damage. Ingestion may cause immediate pain and burns of the mouth, throat, esophagus and GI Tract. May cause nausea, vomiting and

### Flammability

### Health

### Reactivity

### Revisions

NFPA

0

7/30/2010

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

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