

1. Product and Company Identification

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Product Name RXSOL-60-6258-500
Product Type Hydrochloric Acid 5.0 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	7732-18-5	45-55%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m ³
Water, Deionized ASTM Type II	CAS# 7732- 18-5	50-60%	V/V	None Established

3. Hazards Identification

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Causes severe irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview: Serious: "Danger" Corrosive. Liquid and vapor cause severe burns to all body tissues. May be fatal if swallowed or inhaled.

Inhalation: Corrosive! Irritation of upper airway causing coughing, choking, inflammation, of the nose, throat, and upper respiratory tract, and in severe cases, pulmonary edema, circulatory failure, and death.

Ingestion: Corrosive! 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: Corrosive! Can cause redness, pain, and severe skin burns. Concentrated solutions cause deep ulcers and deslough of skin.

Eye: Contact: Corrosive! Vapors are irritating and may cause damage to eyes. Contact may cause severe burns and permanent eye damage.

Chronic: Exposure: Long-term exposure to concentrated vapors may cause erosion of teeth. Long-term exposure within 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.

4. First Aid Measures

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Causes severe irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SKIN: Remove contaminated clothing. Wash

EYES:

exposed area with soap and water. if irritation persists, seek medical attention.

INHALATION:

Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.

INGESTION

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

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 Extinguisher Type:

Any means suitable for extinguishing non-petroleum fire

Fire / Explosion Hazards:

Thermal decomposition produces highly toxic fumes

Fire Fighting Procedures:

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

6. Accidental Release Measures

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Absorb spill with inert material, then place in a chemical waste container. Neutralize with a weak base.

Disperse with Water and Flush to Sewer if Local Ordinances Allow. Otherwise, Whenever Possible be Sent for Recovery or Recycling or Managed in an Appropriate and Approved Waste Disposal Facility. Processing, Use or Contamination of this Product may Change the Waste Management Option. State and Local Disposal Regulations May Differ from Federal Disposal Regulations. Disposal of Container and Unused Contents in Accordance with Federal, State and Local Regulations.

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 container.

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

Impervious gloves, apron and coveralls as needed.

9. Physical and chemical properties

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BOILING POINT

100 - 100° C

VAPOR PRESSURE

Information not available

MELTING POINT

Information not available

VAPOR DENSITY

Information not available

EVAPORATION RATE

Information not available

Appearance /Odors

Clear liquid, slight HCl

Flash Point

NA

Specific Gravity

Information not available

Pressure Vessels by

105

Acute Aquatic Toxicity	Not applicable
Lower Flammability Limit in Air	Not applicable
Upper Flammability Limit in Air	Not applicable
Solubility in Water	Soluble

10. Stability and reactivity

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STABILITY

CONDITIONS TO AVOID Avoid contact with incompatible materials.

MATERIALS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION will not occur

Conditions to Avoid None known

11. Toxicological information

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

No

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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Dilute with water and flush to sewer if local ordinances allow, otherwise, 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: 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:Ingredient

Hydrogen Chloride (7647-01-0)

Water (7732-18-5)

TSCA Yes YES

EC Yes YES

Japan YES YES

Australia Yes YES

Chemical Inventory Status 

Part 2:Ingredient

Hydrogen Chloride (7647-01-0)

Water (7732-18-5)

Korea Yes YES

DSL Yes YES

NDSL No NO

Phil. Yes YES

Federal, State & International Regulations 

Part 1: Ingredient.

Hydrogen Chloride (7647-01-0)

Water (7732-18-5)

RQ 5000 No

TPQ 500 No

List YES NO

Chemical Catg No NO

Federal, State & International Regulations 

Part 2:Ingredient

Hydrogen Chloride (7647-01-0)

Water (7732-18-5)

CERCLA 5000 NO

261.33 No NO

8(d) No NO

Chemical Weapons Convention: No

TSCA 12 (b):No

CDTA: YES MIXTURE/LIQUID

SARA 311/312: Acute:YES

Chronic: YES

Fire: No

Pressure: No

Reactivity: No

Australian Hazchem Code: 2R

Poison Schedule:NONE ALLOCATE

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: Sevre irritation or burns to skin, eyes, respiratory tract and digestive tract. Chronic: Dermatitis, erosion of teeth, eye damage.Ingestion may cause immidiata 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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