

## 1. Product and Company Identification

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Product Name RXSOL-60-6257-500  
Product Type Hydrochloric Acid 37% Lab Grade

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
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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  | 36.5-38%      | W/W       | OSHA PEL (C) 5 ppm,<br>(C) 7<br>mg/m <sup>3</sup> |
| Water, Deionized ASTM Type II | CAS# 7732- 18-5 | 62-63.5%      | W/W       | None<br>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: Poison! Danger! Corrosive. Liquid and mist cause severe burns to all body tissue. May be fatal if swallowed or inhaled. Inhalation may cause lung damage.

Inhalation: Corrosive! 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 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 discolor 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 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 to this substance.

## 4. First Aid Measures

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|             |   |
|-------------|---|
| SKIN:       | In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. |
| EYES:       | Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally.<br>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 Extinguisher Type:   | Any means suitable for extinguishing surrounding fire  |
| Fire / Explosion Hazards: | Thermal decomposition produces highly toxic fumes.   |
| 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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Evacuate area. Wear self-contained breathing apparatus and protective clothing. Dispose of in a manner consistent with federal, state, local regulations.

Ventilate area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Neutralize with Alkaline Material (Soda- Ash, Lime), then Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! 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, 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             | 51°C                      |
| VAPOR PRESSURE            | 160 mm Hg @ 70°F          |
| MELTING POINT             | -114.3°C                  |
| VAPOR DENSITY             | 1.27                      |
| EVAPORATION RATE          | Information not available |
| Appearance /Odors         | Colorless fuming liquid   |
| Flash Point               | Information not available |
| Specific Gravity          | 1.19                      |
| Percent Volatile by       | >99%                      |
| 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                        | Stable                                     |
| CONDITIONS TO AVOID              | Avoid contact with incompatible materials. |
| MATERIALS TO AVOID               | Metals, bases, amines, and water           |
| HAZARDOUS DECOMPOSITION PRODUCTS | HCl fumes and Hydrogen gas                 |
| 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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Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste 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, 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 ALLOCATED

## 16. Other information

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Conditions aggravated/target organs: Corrosive! Severe exposure may be fatal. Acute: Severe burns to eyes, skin, respiratory system,GI tract. Chronic: Dermatitis, eye damage, lung damage.

Flammability

## Revisions

NFPA

7/30/2010

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

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