

## 1. Product and Company Identification

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Product Name PH Chlorine and Bromine test kit  
Part Number RXSOL-62-5602-025

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
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## 2. Composition / Information on ingredients

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Chemical name	Cas No	Weight	Formula
Hydrochloric acid	7647-01-0	5.2	HCl

## 3. Hazards Identification

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Signal Word	Danger
Hazard Statements	Causes severe skin burns and eye damage, may cause cancer.
Precautionary statements	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not ingest. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hand and any exposed skin thoroughly after handling.
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	May be harmful if swallowed.

## 4. First Aid Measures

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General advice	Do not get in eyes on skin and on a clothing.
If inhaled	Remove to fresh air, if breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call physician immediately.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Consult a physician.
Ingestion	Do not induce vomiting. Drink plenty of water. Clean mouth with water. Consult a physician. Never give anything by mouth to an unconscious person.
Self protection for the first aider	Use personal protective equipment.

## 5. Fire-fighting Measures

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Suitable extinguishing media  
Protective Equipment, and precaution for firefighter

Water spray, dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray.  
As in any fire, wear self contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with eye, skin and inhalation of vapors.

Spillage

No data available

Personal Protection

No data available

Environmental Precaution

See section 12 for additional ecological information.

Methods and materials for containment and cleaning

Neutralise spill with alkaline material being careful to prevent splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with water. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

Reference to other sections

No data available

## 7. Handling and Storage

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Handling

Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes and clothing. Do not ingest, do not eat, drink or smoke when using this product.

Storage conditions

Keep container tightly closed in a dry, cooled well ventilated place. Store at room temperature. Keep away from direct sunlight. Keep away from heat and incompatibles. Keep out of the reach of children.

Incompatible material

Strong bases, strong oxidising agents, metals, cyanides, sulfides, formaldehydes.

## 8. Exposure controls and personal protection

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Exposure controls

Personal protective equipment

Engineering Control

Showers, eyewash stations, ventilation systems.

Eye/face protection

Safety glasses with side shields.

Skin and body protection

Wear protective gloves/clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

## 9. Physical and chemical properties

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Physical state

Liquid

Colour

Colorless

Odour

Pungent

Odor Threshold

No data available

pH

No data available

Melting Point	No data available
Boiling Point	100 °C/ 212° F
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	No data available
Density	No data available
Relative Density	No data available
Specific Gravity	~1
Partition coefficient	No data available
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No data available
Particle characteristics	No data available

## 10. Stability and reactivity

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Reactivity	Vapors may form explosive mixture with air
Chemical stability	Stable under normal conditions of use and storage.
Hazardous decomposition products	Chlorine gas,hydrogen gas,hydrogen chloride.
Conditions to avoid	Exceeds heat,incompatible product direct sunlight.
Incompatible materials	Strong bases,strong oxidising agents,metals ,cyanides,sulfhides,formaldehydes.
Hazardous polymerization	Does not occur

## 11. Toxicological information

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Oral LD50	230-277mg/kg(Rat)
Dermal LD50	5010 mg/kg(Rabbit)
InhalationLC50	=1.68mg/lit
Chronic toxicity	Chronic exposure to corrosive mists or vapors may causes erosion of teeth.

## 12. Ecological information

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Persistence and degradability	No data available
Toxicity to fish	282:96h Gambusia affins mg/l LC50 static
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Endocrine disrupting properties	No data available
Other adverse effects	No data available

### 13. Disposal considerations

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Disposal methods	Dispose of containers in accordance with local regulations.
Contaminated packaging	Do not reuse with empty containers
Waste treatment Method	No data available

### 14. Transport information

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UN number	ADR/RID: 1789 IMDG: 1789 IATA:1789
UN proper shipping name	ADR/RID:HYDROCHLORIC ACID SOLUTION IMDG:HYDROCHLORIC ACID SOLUTION IATA:HYDROCHLORIC ACID SOLUTION
Transport hazard class(es)	ADR/RID:8 IMDG:8 IATA:8
Packaging group	ADR/RID:III IMDG:III IATA:III
Environmental hazards	ADR/RID:No IMDG Marine pollutant: No IATA: No
Special precautions for user	No data available
Further information	No data available

### 15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	No data available
Chemical Safety Assessment	A Chemical Safety Assessment has been carried out for this substance.

### 16. Other information

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Other Information	<p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.</p>
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