

Muriatic Acid 50 Ltrs

Part No. RXSOL-22-2205-050 — Generated 26 Sep 2026

1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-22-2205-050

Product Type Muriatic Acid

Company Details:

RX MARINE INTERNATIONAL

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2. Composition / Information on ingredients

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Ingredient	CAS No	Percent
HYDROGEN CHLORIDE	7647-01-0	9 – 36
Water	7732-18-5	63-91

3. Hazards Identification

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NFPA RATINGS (SCALE
0-4)

HEALTH = 3

FIRE = 0

REACTIVITY = 0

HMIS RATINGS (SCALE
0-4)

HEALTH = 3

FLAMMABILITY = 0

REACTIVITY = 0

EMERGENCY OVERVIEW

COLOR colorless

PHYSICAL FORM liquid

ODOR pungent odor

SIGNAL WORD DANGER

MAJOR HEALTH HAZARDS	CAUSES BURNS TO THE RESPIRATORY TRACT, SKIN, EYES AND
GASTROINTESTINAL TRACT	CAUSES PERMANENT EYE DAMAGE. MAY BE HARMFUL OR FATAL IF SWALLOWED.
PHYSICAL HAZARDS	May spatter or generate heat when mixed with water. Contact with metals may evolve flammable hydrogen gas.
PRECAUTIONARY STATEMENTS	Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling. Use only with adequate ventilation.
SHORT TERM EXPOSURE	burns, eye damage, blindness
LONG TERM EXPOSURE	to our knowledge, no effects are known
INGESTION	
SHORT TERM EXPOSURE	Burns
LONG TERM EXPOSURE	ingestion of harmful amounts is unlikely
CARCINOGEN STATUS	
OSHA	no
NTP	no
IARC	no

4. First Aid Measures

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Inhalation	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio-Pulmonary Resuscitation/Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.
Skin Contact	Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. Discard footwear which cannot be decontaminated. GET MEDICAL ATTENTION IMMEDIATELY.
EYE CONTACT	Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION	Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.
NOTE TO PHYSICIAN	The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire-fighting Measures

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FIRE AND EXPLOSION HAZARDS	May release toxic gases.
EXTINGUISHING MEDIA	Use extinguishing agents appropriate for surrounding fire.
FIRE FIGHTING	Keep unnecessary people away, isolate hazard area and deny entry. Wear NIOSH approved positive-pressure self-contained breathing apparatus. Move containers from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Cool containers with water.
SENSITIVITY TO MECHANICAL IMPACT	Not sensitive
FLASH POINT	not flammable
HAZARDOUS COMBUSTION PRODUCTS	Thermal decomposition products or combustion: hydrogen chloride

6. Accidental Release Measures

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OCCUPATIONAL RELEASE: Evacuation of surrounding area may be necessary for large spills. Wear appropriate personal protective equipment recommended in Section 8 of the MSDS. Completely contain spilled material with dikes, sandbags, etc. Shut off ventilation system if needed. Reprocess or reuse if possible. Neutralize with soda ash or dilute caustic soda. Collect with appropriate absorbent and place into suitable container. Liquid material may be removed with a vacuum truck. Keep out of water supplies and sewers. This material is acidic and may lower the pH of the surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800) 424-8802 (USA) or (202) 426-2675 (USA).

7. Handling and Storage

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STORAGE	Store and handle in accordance with all current regulations and standards. Store in rubber-lined steel, acid-resistant plastic or glass containers. Keep containers tightly closed and properly labeled. Store in a cool, dry place. Store in a well-ventilated area. Do not store in aluminum container or use aluminum fittings or transfer lines. Dike and vent storage tanks. Keep separated from incompatible substances (see Section 10 of the MSDS).
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HANDLING Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering.

8. Exposure controls and personal protection

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EXPOSURE LIMITS	HYDROGEN CHLORIDE, ANHYDROUS:
HYDROGEN CHLORIDE (HYDROCHLORIC ACID)	5 ppm (7 mg/m ³) OSHA ceiling, 2 ppm ACGIH ceiling
VENTILATION	Use closed systems when possible. Provide local exhaust ventilation where vapor or mist may be generated. Ensure compliance with applicable exposure limits.
EYE PROTECTION	Wear safety glasses with side shields. Wear chemical safety goggles with a faceshield or chemical splash hood. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
CLOTHING	Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Always place pants legs over boots.
GLOVES	Wear appropriate chemical resistant gloves.
PROTECTIVE MATERIAL TYPES	neoprene, nitrile, polyvinyl chloride (PVC), rubber, Kappler ® CPF3, Tychem
IMMEDIATELY DANGEROUS TO LIFE OR HEALTH	50 ppm
RESPIRATOR	Where vapor concentration exceeds or is likely to exceed applicable exposure limits, a NIOSH approved respirator with acid gas canister is required. When an air-purifying respirator is not adequate for spills and/or emergencies of unknown concentrations, a NIOSH approved self-contained breathing apparatus or airline respirator with full-face piece is required. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

9. Physical and chemical properties

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PHYSICAL STATE	liquid
Appearance	Clear.
COLOR	colorless
Odor	pungent odor
MOLECULAR WEIGHT	36.46

MOLECULAR FORMULA	HCl
BOILING POINT	140-221F (60.0 – 105 C)
FREEZING POINT	-29 to 5 F (-34 to -15 C)
VAPOR PRESSURE	14.6 – 80 mmHg @ 20 C
VAPOR DENSITY (air = 1)	1.3 @ 20 C
SPECIFIC GRAVITY (water = 1)	1.05 – 1.18
BULK DENSITY	8.75 – 9.83 lbs/gal
WATER SOLUBILITY	100%
PH	2 (0.2% solution)
VOLATILITY	9 – 36% by volume
ODOR THRESHOLD	0.3 ppm (causes olfactory fatigue)
EVAPORATION RATE	1.00 (butyl acetate = 1)
COEFFICIENT OF DISTRIBUTION	WATER/OIL n/a

10. Stability and reactivity

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REACTIVITY	Stable at normal temperatures and pressure.
CONDITIONS TO AVOID	Avoid heat, flames, sparks and other sources of ignition. Contact with water may produce a strong exothermic reaction with spattering. Contact with metals may evolve flammable hydrogen gas. Hydrogen chloride may react with cyanide, forming lethal concentrations of hydrocyanic acid.
INCOMPATIBILITIES	metals, alkalis (such as sodium hydroxide), mercuric sulfate, perchloric acid, carbides of calcium, cesium, rubidium, acetylides of cesium and rubidium, phosphides of calcium and uranium, lithium silicide.
HAZARDOUS DECOMPOSITION	Thermal decomposition products or combustion: hydrogen chloride
POLYMERIZATION	will not polymerize

11. Toxicological information

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MURIATIC ACID (ALL GRADES)

TOXICITY DATA

Hydrochloric Acid: 900 mg/kg oral-rabbit LD50; 1108 ppm/1 hour(s) inhalation-rat; 3124 ppm/1 hour(s) inhalation-rat LC50. Rinsed Draize Test: 5 mg/30 second(s) rabbit-eye mild. Standard Draize Test: 4% / 24 hour(s) skin-human mild. Inhalation will cause severe irritation and possible burns with coughing and choking. If inhaled deeply, edema and hemorrhage of the lungs may occur. Levels of 10-35 ppm may cause irritation of throat and 50-100 ppm is unbearable for 1 hour. Inflammation, destruction of nasal passages and breathing difficulties may occur with higher concentration and/or erosion of teeth. Contact with eyes causes immediate severe irritation with possible burns, permanent visual impairment, or total loss of sight. Contact with fumes or liquid may produce corrosive burns. Dermal exposure also results in irritation, pain, dermatitis, and ulceration. Ingestion may cause immediate burns of the mouth, esophagus, and stomach. Ingestion may cause intense pain, nausea, vomiting, bleeding, circulating collapse, shock and death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

RE: respiratory system (including asthma and other breathing disorders)

12. Ecological information

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ECOTOXICITY DATA

FISH TOXICITY

Hydrochloric Acid: 178 mg/L LC50 Goldfish (1 to 2 hour survival time); 100-300 mg/L LC50 Shrimp. 3.6 mg/L 48 hour(s) (static) LC50 Bluegill. This material is believed to be toxic to aquatic life.

FATE AND TRANSPORT

BIODEGRADATION

This material is inorganic and not subject to biodegradation.

PERSISTENCE

This material is believed not to persist in the environment. This material is believed to exist in the disassociated state in the environment. SOIL: Hydrogen chloride will sink into the soil. The acid will dissolve some soil material (in particular, anything with a carbonate base) and will be somewhat neutralized. The remaining portion is thought to transport downward to the water table. WATER: Dissociates almost completely and will be neutralized by natural alkalinity and carbon dioxide.

BIOCONCENTRATION This material is believed not to bioaccumulate.

13. Disposal considerations

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Reuse or reprocess if possible. Dispose in accordance with all applicable regulations.

Subject to disposal regulations

regulations: U.S. EPA 40 CFR 262.

Hazardous Waste Number(s)

D002.

14. Transport information

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U.S. DOT 49 CFR 172.101

PROPER SHIPPING NAME

Hydrochloric acid solution

ID NUMBER

UN1789

HAZARD CLASS OR DIVISION

8

PACKING GROUP

II

LABELING REQUIREMENTS

8

DOT HAZARDOUS SUBSTANCE(S)

Hydrochloric acid 5000 lb(s) (2270 kg(s))

CANADIAN TRANSPORTATION OF DANGEROUS GOODS

SHIPPING NAME

Hydrochloric acid solution

UN NUMBER

UN1789

CLASS

8

PACKING GROUP/RISK GROUP

II

15. Regulatory information

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U.S. REGULATIONS

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4)

HYDROGEN CHLORIDE

5000 LBS RQ (liquid)

CHLORINE

10 LBS RQ

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30)

HYDROGEN CHLORIDE

500 LBS TPQ (gas)

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21)

ACUTE	yes
CHRONIC	no
FIRE	no
REACTIVE	no
SUDDEN RELEASE	no

SARA TITLE III SECTION 313 (40 CFR 372.65)

HYDROGEN CHLORIDE	aerosol form only
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This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372. Refer to Section 3 .

OSHA PROCESS SAFETY (29 CFR 1910.119)	HYDROGEN CHLORIDE: 5000 LBS TO (gas)
CHLORINE	1500 LBS TQ
FDA	This material has Generally Recognized as Safe (GRAS) status under specific FDA regulations. Additional information is available from the Code of Federal Regulations (CFR) which is accessible on the FDA’s website.
STATE REGULATIONS	

California Proposition 65	This product may contain contaminants known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.
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NEW JERSEY WORKER AND
COMMUNITY RIGHT TO KNOW

REPORTING REQUIREMENT

WATER	7732-18-5 63 – 91%
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HYDROGEN CHLORIDE 7647-01-0	936%
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RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST	HYDROGEN CHLORIDE 7647-01-0 9-36% CHLORINE 7782-50-5 0 – 50 ppm
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SPECIAL HEALTH HAZARD SUBSTANCE LIST	HYDROGEN CHLORIDE 7647-01-0 9-36%
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PENNSYLVANIA RIGHT TO
KNOW

REPORTING REQUIREMENT	WATER 7732-18-5 63 – 91% HYDROGEN CHLORIDE 7647-01-0 0 36%
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HAZARDOUS SUBSTANCE LIST	HYDROGEN CHLORIDE 7647-01-0 9-36%
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ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST	HYDROGEN CHLORIDE 7647-01-0 9-36%
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SPECIAL HAZARDOUS SUBSTANCE LIST	not regulated
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CANADIAN REGULATIONS	WHMIS CLASSIFICATION: E
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NATIONAL INVENTORY STATUS

U.S. INVENTORY (TSCA)	All the components of this substance are listed on or are exempt from the inventory.
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TSCA 12(b) EXPORT NOTIFICATION	not listed
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CANADA INVENTORY (DSL/NDL)	All components of this product are listed on the DSL.
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16. Other information

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