

SAFETY DATA SHEET

HYDROCHLORIC ACID

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Hydrochloric acid
Catalog Number: HCL333

SECTION 2 HAZARDS IDENTIFICATION

GHS:

Corrosive to metals (Category 1)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)

Pictogram:



Signal word: Danger

Hazard statement:

H314 causes severe skin burns and eye damage
H335 May cause respiratory irritation.

Precautionary statements:

P260 Do not breathe dust or mist
P284 wash skin thoroughly after handling
P280 Wear protective gloves/protective clothing/ eye protection/ face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth, DO NOT induce vomiting.
P303+P361+P353 IF ON SKIN: remove immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.

Eyes: causes irritation..

Skin: causes irritation.

Inhalation: May cause irritation to respiratory tract.

Ingestion: cause irritation to GI tract if swallowed in large amounts. May be harmful if swallowed.

CHRONIC HEALTH HAZARDS: none known.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Hydrochloric acid	7647-01-0	33-38%
Water	7732-18-5	62-67%

Molecular Formula: HCl
Molecular weight: 36.46

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with water. GET MEDICAL ATTENTION.

Skin: Flush area immediately with soap and water. GET MEDICAL ATTENTION.

Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. Do NOT use mouth to mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device. Get medical attention immediately

Ingestion: Within 15 minutes of occurrence, have patient drink 2-4 glasses of milk or water. Do NOT induce vomiting. GET MEDICAL ATTENTION.

SECTION 5 FIRE FIGHTING MEASURES

Flammable: No

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

OSHA, 2-5ppm

Use adequate ventilation...

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear liquid,
Appearance and Odor: colorless to slightly yellow. Strong odor.
Vapor pressure: 84 mm Hg
Vapor density: 1.27
Melting Point: 66°C
Boiling Point: 83°C
Specific Gravity/Density: 1.982 (water=1)
Water Solubility: Soluble
pH: 0.1

UN number: 1789 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: HYDROCHLORIC ACID
Marine pollutant: No

IATA

UN number: 1789 Class: 8 Packing group: II
Proper shipping name: Hydrochloric acid

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed
European/International: no hazardous
Canada: WHMIS: Corrosive E

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable at normal room temperature and pressure
Conditions to avoid: contact with skin
Incompatibility: strong oxidizing agents.
Hazardous Decomposition Products: hydrogen chloride gas
Hazardous Polymerization: Has not been reported

SECTION 16 ADDITIONAL INFORMATION

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

Oral rat: LD50=>90 ml/kg
Inhalation mouse LC50:= 1108 ppm/1H
Inhalation rat: LC50= 3124 ppm/1H
Oral rabbit: LD50=900 mg/kg

Epidemiology: No data available
Teratogenicity: No data available
Reproductive Effects: No data available
Neurotoxicity: No data available
Mutagenicity: No data available
Carcinogenicity: not listed by ACGIH, IARC, NTP, or CA

Prepared By: M.Kierdelewicz (President)
Date Prepared: Jan 1/2025
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The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.
Observe all federal, provincial and state laws concerning health, safety and pollution.

SECTION 12 ECOLOGICAL INFORMATION

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

DOT (US)

UN number: 1789 Class: 8 Packing group: II
Proper shipping name: Hydrochloric acid
Reportable Quantity (RQ):
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG