

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: 83C
Specific Gravity/Density: 1.982 (water=1)
Water Solubility: Soluble
pH: 0.1

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 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

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

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 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)
Date Prepared: Dec 29/2021
Phone: (800) 234-1179

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