



Registered Name: **BizinBiz Technologies Private Limited**

Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur

India Pvt. Ltd., New Delhi, India, 110002

CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**

IEC: AAJCB9425C

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION / COMPANY ADDRESS

Trade Name	Hydrochloric Acid (HCl) aqueous all grades	Common Name	Hydrochloric Acid	Synonyms	Muriatic Acid, Chlorohydric acid, Spirit of Salt,
Company Name Phone / Fax / Address /	Supplier: Elchemy Company Address: A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India Company Web Site: www.elchemy.com Emergency Phone Number: +919867099519 (24 Hrs) Email Id: info@elchemy.com				
Chemical Name	Hydrochloric Acid				

2. HAZARD IDENTIFICATION

Hazard Classification	GHS: CONTACT HAZARD - SKIN	Category 1B - Causes severe skin burns and eye damage.
GHS: CONTACT HAZARD - EYE	Category 1 - Causes serious eye damage	
GHS: ACUTE TOXICITY - INHALATION	Category 4 - Harmful if inhaled	
GHS: ACUTE TOXICITY - ORAL	Category 4 - Harmful if swallowed.	
GHS: TARGET ORGAN TOXICITY(REPEATED EXPOSURE)	Category 1 - Causes damage to teeth through	



+91 98670 99519
+1 (908) 663 8750
info@elchemy.com
www.elchemy.com



Mumbai Office

202-203, Lodha Supremus, End of
11th Rd, Off Mahakali Caves Rd,
Andheri East, Mumbai,
Maharashtra 400069



US Office

16192 Coastal Highway, Lewes,
DE 19958



Registered Name: **BizinBiz Technologies Private Limited**

Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur

India Pvt. Ltd., New Delhi, India, 110002

CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**

IEC: AAJCB9425C

	prolonged or repeated exposure	
GHS: TARGET ORGAN TOXICITY (REPEATED EXPOSURE)	Category 1 - Causes damage to teeth through prolonged or repeated exposure	
GHS: CARCINOGENICITY:	Not classified as a carcinogen per GHS criteria. This material is not classifiable as to its carcinogenicity to humans (Group 3 - IARC). ACGIH - A4 Carcinogen - Not classifiable as a human carcinogen.	

3. COMPOSITION / INFORMATION AND INGREDIENTS

Structural Formula	H-Cl	Chemical Family	Acid
		Molecular weight	36.46g/mol
CAS No	7647-01-0 (HCl) 7732-18-5 (H ₂ O)	Molecular Formula	HCl

Name	Product identifier	%	Classification
Hydrogen chloride	7647-01-0	Causes severe skin burns and eye damage	Harmful if swallowed Harmful if inhaled Causes damage to organs through prolonged or repeated exposure (teeth)
		Causes serious eye damage	
		9-36% (HCl) 91 - 63% (H ₂ O)	



+91 98670 99519
+1 (908) 663 8750
info@elchemy.com
www.elchemy.com



Mumbai Office

202-203, Lodha Supremus, End of
11th Rd, Off Mahakali Caves Rd,
Andheri East, Mumbai,
Maharashtra 400069



US Office

16192 Coastal Highway, Lewes,
DE 19958

4. FIRST AID MEASURE

Ingestion	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cup full of milk. Consult a doctor immediately. Never give anything by mouth to an unconscious person.
Inhalation	Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Get medical attention immediately.
Eyes	Immediately flush eyes with large amounts of water for at least 30 minutes, holding lids apart to ensure flushing of the entire surface. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed.
Skin	Immediately flush skin with copious quantities of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Get medical attention immediately.
Antidote	

Updated as On: 21.06.2021 45 I Page

Most important symptoms/ effects, acute and or delayed	Eye Contact- May cause irreversible eye injury. Vapor or mist may cause irritation and severe burns. Contact with liquid is corrosive to the eyes and causes severe burns. May cause conjunctivitis. May cause permanent damage. Inhalation- Causes severe respiratory tract inflammation. Destructive to tissues of mucous membranes. Coughing, difficulty breathing, pulmonary edema, collapse, respiratory system and lung damage, possible coma and possibly death. Skin contact- May be absorbed through the skin in harmful amounts. Contact with liquid is corrosive and causes severe burns and ulceration. May cause photosensitization in certain individuals. Ingestion- May cause circulatory system failure. Can cause severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.
Indication of immediate medical attention and special	May aggravate pre-existing conditions such as: eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin; and respiratory conditions including asthma and other breathing disorders.



+91 98670 99519

+1 (908) 663 8750

info@elchemy.com

www.elchemy.com



Mumbai Office

202-203, Lodha Supremus, End of

11th Rd, Off Mahakali Caves Rd,

Andheri East, Mumbai,

Maharashtra 400069



US Office

16192 Coastal Highway, Lewes,

DE 19958

treatment
needed

5. FIRE FIGHTING MEASURES

Fire extinguishing media	Not applicable
Hazardous decomposition products	Hydrogen chloride, Chlorine, Hydrogen gas
Special fire fighting procedure	Non-flammable.
Precaution to Fire Fighters	Use media suitable for surrounding materials.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution	Use proper personal protective equipment as indicated in Section 8. Restrict access to affected area. Keep people away from and upwind of spill/leak.
Precautions for the environment	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.
Clean up method	Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Absorb spill using an absorbent, noncombustible material such as earth, sand, or vermiculite.

Updated as On: 21.06.2021 46 Page

7. HANDLING AND STORAGE

General precaution	Wash thoroughly after handling. Use with adequate ventilation. Do not get on skin or in eyes. Do not ingest or inhale. Do not allow smoking or food consumption while handling.
Personal protection	Remove contaminated clothing and wash before re-use. Wear personal protective equipment as per Section-8
Storage	Keep away from heat and flame. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep tightly closed. Do not add any other material to the container.
Incompatibilities	



+91 98670 99519
+1 (908) 663 8750
info@elchemy.com
www.elchemy.com



Mumbai Office

202-203, Lodha Supremus, End of
11th Rd, Off Mahakali Caves Rd,
Andheri East, Mumbai,
Maharashtra 400069



US Office

16192 Coastal Highway, Lewes,
DE 19958

Alkalis, metals, oxidizing agents, Mercuric sulphate, Perchloric acid, Carbides of calcium, cesium, rubidium, Acetylides of cesium and rubidium, Phosphides of calcium and uranium, Lithium silicide

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Personal FOOT protection			
Skin	A Chemical protective gloves, boots, and/or other protective clothing to prevent possible skin contact. chemical protective acid-resistant full-body encapsulating suit respiratory protection may required in some operations. Have a safety shower/ eye-wash fountain readily available in immediate work area. gum chemical all and be the	Eyes	Wear appropriate protective face shield and eyeglasses or chemical safety goggles.
Respiration	Use cartridge type gas mask evacuate from area. To attend emergency wear contained breathing apparatus supplied airline. to self- or	Other	
Exposure limits			
TLV-TWA	2 ppm	TLV-STEL	5 ppm



Appropriate Engineering Control

Appropriate Engineering Control	Use closed systems when possible. Provide local exhaust ventilation where vapor or mist may be generated. Ensure compliance with applicable exposure limits.
---------------------------------	--

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear / colorless Liquid	Molecular Weight	36.46g/mol	Specific gravity	No data available
		Flash Point °C	Not Pertinent		1.1



+91 98670 99519
+1 (908) 663 8750
info@elchemy.com
www.elchemy.com



Mumbai Office

202-203, Lodha Supremus, End of
11th Rd, Off Mahakali Caves Rd,
Andheri East, Mumbai,
Maharashtra 400069



US Office

16192 Coastal Highway, Lewes,
DE 19958

Odour/Odor threshold	strong odor - pungent odor			pH/ / Acidity	
Auto Ignition Temp. °C	Not Pertinent	Boiling Point °C @ 760 mm Hg	108.6 OC	Melting Point °C	
Vapor Press. Mm Hg @ 20 °C	1.41 kPa (10.6 mm Hg) at 20 °C	Vapour Density	Water Solubility @ 20 °C	Soluble in water	
LEL %	Not Pertinent	UEL %	Not Pertinent	% Volatile	
Evaporation rate	Viscosity @ 25 °C	PH			
Octanol / Water Partition Coefficient	No data Available	No data available			

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.	Possibility of Hazardous reaction	HCl itself does not polymerize. Reaction of HCl with some incompatible materials can cause polymerization.
Hazardous Reactions/ Decomposition products	Hydrogen chloride, hydrogen gas.	Incompatible Materials	Acetate, acetic anhydride, alcohols + hydrogen cyanide, 2-aminoethanol, ammonium hydroxide, calcium carbide, calcium phosphide, cesium acetylene carbide, cesium carbide, chlorosulfonic acid, 1,1-difluoroethylene, ethylene diamine, ethyleneimine, fluorine, lithium silicide, magnesium boride, mercuric sulfate, oleum, perchloric acid, potassium permanganate,

Updated as On : 21.06.2021 48 | Page



+91 98670 99519
+1 (908) 663 8750
info@elchemy.com
www.elchemy.com



Mumbai Office

202-203, Lodha Supremus, End of
11th Rd, Off Mahakali Caves Rd,
Andheri East, Mumbai,
Maharashtra 400069



US Office

16192 Coastal Highway, Lewes,
DE 19958

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Inhalation, dermal, Mouth.			
LD50 (oral / rats) mg/kg	>90 mL/kg.	LD50 (dermal/ rats) mg/kg	LC50 (inhalation / rats)	3124 ppm/1H
Target Organ Effects	eyes, skin and respiratory tract.			

Symptoms related to Inhalation (Breathing): Respiratory System Effects: Inhalation of this physical, chemical & material may cause: irritation of the respiratory tract with sore throat, coughing, shortness of breath, hoarseness, laryngeal spasms, upper toxicological characteristics respiratory tract enema, inflammation and ulceration, hemorrhage, chest pain, and pulmonary enema. Measurements of distress include increased respiration rate and decreased tidal volume, decreased forced expiratory volume, increased airway resistance, and reduced vital capacity. You may observe sudden circulatory collapse, glottis or esophageal enema and death.

Skin: Skin Corrosion: Concentrated hydrochloric acid is corrosive to tissue, possibly causing redness, irritation, burns, ulceration, scarring, and possible necrosis (tissue death). Severe burns have been fatal. Sudden circulatory collapse can occur with shock if large areas of skin have been burned.

Eye: Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal enema, and corneal burn.

Updated as On : 21.06.2021 49 Page

12. ECOLOGICAL INFORMATION

Mobility in Soil	No data available
Persistence and degradability	This material is believed not to persist in the environment. This material is believed to exist in the disassociated state in the environment. If released to 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. If released to water, it dissociates almost completely and will be



+91 98670 99519
 +1 (908) 663 8750
 info@elchemy.com
 www.elchemy.com



Mumbai Office
 202-203, Lodha Supremus, End of
 11th Rd, Off Mahakali Caves Rd,
 Andheri East, Mumbai,
 Maharashtra 400069



US Office
 16192 Coastal Highway, Lewes,
 DE 19958

	neutralized by natural alkalinity and carbon dioxide. This material is inorganic and not subject to biodegradation.
Bioaccumulative Potential	This material is not expected to bioconcentrate in organisms.
Effects on fish (Ecotoxicity)	No information available.
Effects on birds	No data available
Effects on bees	No data available

13. DISPOSAL CONSIDERATIONS

Review federal, state and local government requirements prior to disposal. Do not dispose of waste with normal garbage, or to sewer systems. Whatever cannot be saved for recovery or recycling, including containers, should be managed in an appropriate and approved waste disposal facility.

14. TRANSPORT INFORMATION

UN No.	UN1789	IMDG No.	---
Shipping Name	HYDROCHLORIC ACID	Hazard class	8
Packing group	---	Hazard Sub class	---
Marine Pollutant	Labels required	Class 8: Corrosive material	
Warning Statement			
Packaging / Precaution			
Shipping Marking			

Updated as On : 21.06.2021 50 Page

15. REGULATORY INFORMATION

LABELING:

PHRASES R:

- R 34 Causes burns.
- R41 Risk of serious damage to eyes.



+91 98670 99519
 +1 (908) 663 8750
 info@elchemy.com
 www.elchemy.com



Mumbai Office
 202-203, Lodha Supremus, End of
 11th Rd, Off Mahakali Caves Rd,
 Andheri East, Mumbai,
 Maharashtra 400069



US Office
 16192 Coastal Highway, Lewes,
 DE 19958



Registered Name: **BizinBiz Technologies Private Limited**

Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur

India Pvt. Ltd., New Delhi, India, 110002

CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**

IEC: AAJCB9425C

PHRASES S:

- S24/25 Avoid contact with skin and eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S27 Take off immediately all contaminated clothing.
- S28 After contact with skin, wash immediately with plenty of water.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S45 In case of accident or if you feel unwell seek medical attention immediately.

16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with other materials.



+91 98670 99519
+1 (908) 663 8750
info@elchemy.com
www.elchemy.com



Mumbai Office

202-203, Lodha Supremus, End of
11th Rd, Off Mahakali Caves Rd,
Andheri East, Mumbai,
Maharashtra 400069



US Office

16192 Coastal Highway, Lewes,
DE 19958