MATERIAL SAFETY DATA SHEET

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Approved by: Darius Nicpon

Section 1 Chemical Product and Company Name

Product	**HYDROCHLORIC ACID, 0.1M**	ITEM No: CASE-B003
Synonyms	Hydrochloric acid, Hydrogen chloride	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information

Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	99%	None established
Hydrochloric Acid	7647-01-0	1%	STEL: 5mg/m³

Section 3 Hazards Identification

WARNING! CORROSIVE!
TOXIC BY INGESTION AND INHALATION. SEVERE BODY TISSUE IRRITANT.
CORROSIVE TO EYES.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	C

HMIS

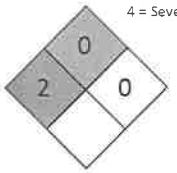
Section 4 First Aid Measures

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.
INHALATION: Remove to fresh air. Get medical attention if necessary.
EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention immediately.
SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing. Get medical attention if

Section 5 Fire Fighting Measures

Nonflammable liquid.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe



Extinguishing Media: Use TriClass, dry chemical extinguisher for surrounding fires.
Use self-contained breathing apparatus and protective clothing.
It reacts with oxidizers releasing chlorine gas.

Flash point: N/A
Autoignition temperature: N/A
Explosion limits: Lower: N/A **Upper:** N/A

Section 6 Accidental Release Measures

Restrict unprotected personnel from the area. Contain the spill with inert absorbent material. Neutralize with sodium bicarbonate or calcium hydroxide and deposit in a sealed bag or container. Ventilate and wash spill area with soap and water.

Section 7 Handling and Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.
Handling: Use hood or with adequate ventilation. Avoid breathing vapor. Wash hands thoroughly after handling.

Storage: Store in a dedicated acid cabinet. Keep container in cool, well-ventilated area.

Section 8 Exposure Controls/ Personal Protection

Engineering controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use hood or ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use a NIOSH-approved respirator with proper cartridge when handling this material in emergency situations.

Section 9 Physical and Chemical Properties

Physical state: Liquid
Appearance: Transparent, Colorless, Clear.
Odor: pungent
pH: <2
Vapor Pressure (mm Hg): not available
Vapor Density: the highest known is 0.62
Evaporation Rate: not available

Boiling point: The lowest know is 100°C
Melting point: N/A
Freezing point: not available
Decomposition temp: not available
Solubility: Miscible in water and alcohol
Specific gravity (H_2O = 1): 1.011 at 20°C
Percent volatile (%): not available
Molecular formula: Mixture
Molecular weight: Mixture

Section 10 Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: High temperatures, sparks open flames and incompatible materials.
Incompatibilities: Alkali metals, metals, organic materials, strong oxidizing agents, amines.
Hazardous decomposition: not available.
Hazardous polymerization: Will not occur.

Section 11 Toxicological Information

Effects of overexposure: Corrosive! Swallowing hydrochloric acid can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. Vapors are irritating to mucous membrane and eyes. Splashes may cause severe burns and permanent eye damage. Can cause redness, pain and severe skin burns. Inhalation of vapors can cause coughing, choking. Inflammation of the nose, throat, and upper respiratory tract.

Acute oral toxicity ORAL LD_{50}: 900mg/kg[Rabbit], as hydrochloric acid
Acute vapor toxicity IHL-LC_{50}: 3124ppm [Rat]/1h, as hydrochloric acid
DERMAL LD_{50}: not available

Section 12 Ecological Information

Does not biodegrade in soil, may be toxic to aquatic life.

Section 13 Disposal Considerations

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

Section 14 Transport Information

UN number: 1789
Shipping name: Hydrochloric acid
Hazard Class: 8
Packing group: PG III
Exceptions: Ltd Qty. ≤5L

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (231-595-7), DSCL (EEC) R36/38-irritating to eyes and skin.

Section 16 Other Information