Safety Data Sheet

Section 1: Identification

1.1 Product Identifier

Product Name	:	Hydrochloric Acid 36-38%
CAS No.	:	7647-01-0
Chemical Family	:	Aqueous Acid solution
Synonyms	:	Chlorohydric Acid, Hydrogen Chloride, Muriatic Acid

1.2 Details of the supplier of the safety data sheet

Company	:	9920 Pacific Heights Blvd Suit 150 San Diego California -92121

1.3 Emergency Telephone number

Emergency phone	:	+1 (858) 245-0283

Section 2: Health Hazard Information

2.1 GHS Classification

H290	Corrosive to Metals	Category 1
H314	Skin corrosion / Skin irritation	Category 1 A
H318	Serious eye damage / Eye irritation	Category 1
H335	Special target organ systemic toxicity single exposure	Category 3

2.2 Pictograms or Hazard symbols

Signal Word: Danger
May be corrosive to metals.
Toxic if inhaled.
Causes severe skin burns and eye damage.Causes serious eye damage.

2.3 Precautionary Statements

P234	Keep only in original container.
P260	Do not breathe fume/gas/mist/vapors.
P264	Wash thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, clothing, and eye and face protection.
P284	In case of inadequate ventilation, wear respiratory protection.
P301+P310	If swallowed, immediately call a physician.
P301+P330+P331	If swallowed, rinse mouth. Do not induce vomiting.
P303+P361+P353	If on skin (or hair) take off immediately all contaminated clothing.

Rinse skin with water.

P304+P340	inhaled, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes, rinse cautiously with water for several minutes.
P308+P311	If exposed or concerned, call a physician.
P310	Seek medical assistance if exposed.
P330	Rinse mouth.

P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant container.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information On Ingredients

Material		Wt%
Hydrochloric Acid	CAS# 7647-01-0	36-38
Water	CAS# 7732-18-5	62-64
Total		100

Section 4: First Aid Measures

4.1 Effects Of Overexposure

Eye Contact: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause blindness. Seek medical attention.

Skin Contact: Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention.May cause deep, penetrating ulcers of the skin.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. Inhalation of vapors may cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract.In severe cases, may pulmonary edema, circulatory failure, and death.

Ingestion: Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water

Section 5: Fire Fighting Measures

Flash Point and Method: Non-flammable
Autoignition Temperature: Not Applicable
Flammability Limits In Air: Not Applicable
Extinguishing media: Water spray. Neutralize with soda ash or slaked lime.
Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Extreme heat or contact with metals can release flammable hydrogen gas.
Toxic gases released: Hydrogen chloride, hydrogen gas.

Section 6: Accidental Release Measures

SPILLS, LEAKS: Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Neutralize with alkaline material such as soda ash or lime. Do not use combustibles. Do not flush to sewer.

Section 7: Handling And Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe dust,mist, or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Avoid contact with combustibles. Do not use with metal tools or items. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Separate from metals, alkali, and organics.Residue in empty containers may still be hazardous.

Section 8: Exposure Control/Personal Protection

Respiratory protection: Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment to avoid exposure to vapors above 0.1ppm. A respiratory protection program complying with requirements of 29CFR 1910.134 is recommended.

Ventilation: Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

Protective gloves: Skin contact should be minimized through use of rubber gloves.

Other protective equipment: Steel tipped shoes/eye wash station/chemical safety chemical retardant clothing.

Eye protection: Safety goggles / face shield.

Section 9: Physical And Chemical Properties

Form	:	Liquid
Appearance	:	Colorless
Odor	:	Acrid, pungent
pH	:	< 1
Melting point	:	-74 °C
Boiling point/Boiling range	:	109 °C
Flash point	:	Non-flammable
Ignition point	:	Will not ignite
Danger of explosion	:	Product is not explosive
Decomposition temperature	:	> 150 °C
Vapor density (Air = 1)	:	Not available
Volatiles, %	:	80-85

Vapor pressure at 15° C, mm Hg	:	190 mm Hg at 25 °C
Specific gravity	:	1.16 g/cc
Solubility in / Miscibility	:	Completely miscible in water
Evap. Rate (Water = 1)	:	No information found

Section 10: Stability And Reactivity

Stability: Stable
Conditions to avoid: Excess heat, sunlight, confined spaces.

Incompatible with: Most common metals, strong bases, metal oxides, amines, hydroxides, cyanides, sulfides, sulfites, formaldehyde and carbonates

Hazardous decomposition products: Hydrogen chloride fumes, hydrogen gas.
Hazardous polymerization: Will not occur.
Conditions to avoid: Excess heat, direct sunlight.

Section 11: Toxicological Information

ACUTE:
Inhalation rat LC50: 4500 ppm/1 hr
Oral rabbit LD50: 1350 mg/kg
Investigated as a tumorigen, mutagen, reproductive efector
Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No
IARC Category 3

OTHER DATA:
Strongly corrosive. Vapor inhalation burns mucous membranes; causes coughing,dyspnoea.

Section 12: Ecological Information

Bioaccumulation : When released into the soil, this material is not expected to biodegrade.When released into the soil, this material may leach into groundwater.

Ecotoxicity : Biologic effects:

This material is expected to be toxic to aquatic life.

Section 13: Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

Section 14: Transportation Information

Class 8
PG II
UN 1789
Shipping Name : Hydrochloric Acid Solution

Section 15: Regulatory

Symbol: C, Corrosive.
R-Phrase: 35, causes severe burns
S-Phrases: 23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

The following component of this product is regulated as toxic a chemical under section 313 or Title III SARA, and 40CFR 372:

Hydrochloric Acid CAS# 7647-01-0

Section 16: Other Information

NFPA Codes:
Health: 3
Flammability: 0
Reactivity: 0
R35: Causes severe burns.
Ingredients are TSCA listed.

Further information

The information and recommendations in this SDS are to the best of our knowledge, information and belief accurate at the time of publication. Although utmost care is been taken in composition of this text, Highpuris LLC cannot be held responsible for any damage resulting from any possible error in this publication.