



HAZTECH  
SYSTEMS™,  
INC.

# Material Safety Data Sheet

PPE (See Section 15)



HMIS

Health Hazard	3
Fire Hazard	0
Reactivity	0



## Section 1. Chemical Product and Company Identification

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Trade Name **Acid Test** Parr # RE2076

Manufacturer Haztech Systems, Inc.  
PO Box 929  
Mariposa, CA 95338

Commercial Name hydrochloric acid

Synonym muriatic acid

Chemical Formula HCl

Supplier Spectrum Chemical Mfg. Corp.  
14422 S. San Pedro St.  
Gardena, CA 90248

CAS # Mixture

RTECS MW4025000

TSCA TSCA8(b) inventory:  
Hydrochloric acid

CI #

In case of emergency contact CHEMTREC  
(24 hours) at 800-424-9300

HazTech Systems, Inc. 800-543-5487

Spectrum Chemical Mfg. Corp. 310-516-8000

## Section 2. Composition and Information on Ingredients

### Exposure Limits

Name	CAS #	TWA (mg/m <sup>3</sup> )	STEL	CEIL (mg/m <sup>3</sup> )	% by Weight
Hydrogen chloride	7647-01-0	7.5		5	~6%
Water	7732-18-5				~94%

Toxicological Data on Ingredients Hydrogen chloride: VAPOR (LC50): Acute: 1562 ppm 4 hours (Rat).

## Section 3. Hazards Identification

Potential Acute Health Effects Extremely hazardous in case of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Potential Chronic Health Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

**Section 4. First Aid Measures**

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, and creases. Cold water may be used. If irritation persists, seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Section 5. Fire and Explosion Data**

Flammability	Non-flammable
Auto-Ignition Temperature	Not available.
Flash Point	Not available.
Flammable Limits	Not available
Products of Combustion	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> etc.).
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Non-combustible

**Section 6. Accidental Release Measures**

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.
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**Section 7. Handling and Storage**

Precautions	Keep container dry. Do not ingest. Do not breathe fumes/vapor/spray. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as metals, alkalis. May corrode metallic surfaces.
Storage	Keep in HazCat Kit.

**Section 8. Exposure Controls/Personal Protection**

Engineering Controls	Use in a well ventilated area.
Personal Protection	Gloves and goggles.



### Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear liquid	Volatility	Not available
Molecular Weight	Not available	Odor Threshold	Not available
pH (1% Solution in Water)	1	Water/Oil Dist. Coeff.	Not available
Boiling Point	Lowest known is 100 C	Ionicity (in Water)	Not available
Melting Point	Not available	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Soluble in water, methanol.
Specific Gravity	1.19 (Water = 1)	Odor	Pungent.
Vapor Pressure	Highest known 17.535 mm of Hg (@ 20°C) (Water).	Taste	Not available
Vapor Density	Highest known is 0.62 (Water).	Color	Colorless

### Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Extremely corrosive in presence of steel, of aluminum, of copper.
Instability Temperature	Not available.	Special Remarks on Corrosivity	Non-corrosive in presence of glass.
Conditions of Instability	Reagent turns yellow when no longer effective.		May react violently with water especially when water is added to the product.
Incompatibility with Various Substances	Reactive with metals, alkalis.	Polymerization	Will not polymerize.

### Section 11. Toxicological Information

Route of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute toxicity of the vapor (LC50): 1562 ppm 4 hour (Rat).
Chronic Effects on Humans	The substance is toxic to lungs, mucous membranes.
Other Toxic Effects on Humans	Extremely hazardous in case of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive, irritant, permeator).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Material is destructive to tissue of the mucous membranes and respiratory tract.

### Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	Not available.



### Section 13. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

### Section 14. Transport Information

DOT Classification CLASS 8: Corrosive liquid.

Identification Hydrochloric acid, 8, UN1789, II

Special Provisions for Transport Not applicable.

### Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

Pennsylvania RTK: Hydrochloric acid  
Massachusetts RTK: Hydrochloric acid  
TSCA 8(b) inventory: Hydrochloric acid  
SARA 302/304/311/312 extremely hazardous substances: Hydrochloric acid  
SARA 313 toxic chemical notification and release reporting: Hydrochloric acid  
CERCLA: Hazardous substances.: Hydrochloric acid

California Proposition 65 Warnings

Other Regulation OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other classifications

WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).  
CLASS D-2A: Material causing other toxic effects (VERY TOXIC).  
CLASS E: Corrosive liquid.

DSCL (EEC) R20- Harmful by inhalation.  
R35- Causes severe burns.

### Section 16. Other Information

Part Number(s) RE2076

References Not available.

Other Special Considerations Not available.

Validated by R. Turkington

Verified by R. Turkington

Call 1-800-543-5487

#### Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Haztech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.