



Material Safety Data Sheet



HMIS	
Health Hazard	3
Fire Hazard	0
Reactivity	0

PPE (See Section 15)



Section 1. Chemical Product and Company Identification

Trade Name **Metal Analysis Test 6** Code RE/MA6

Manufacturer **HazTech Systems, Inc.** CAS # Mixture.
P.O. Box 627 RTECS MW4025000
164 Dinsmore TSCA TSCA 8(b) inventory:
Fortuna, CA 95540 Hydrochloric acid

Commercial Name MA-6

Synonyms CI #

Chemical Formula HCl, H2O

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

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

HazTech Systems, Inc. 800-337-2497

Spectrum Chemical Mfg. Corp. 310-516-8000

Section 2. Composition and Information on Ingredients

Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m3)	STEL	CEIL (mg/m3)	
Hydrogen chloride	7647-01-0	7.5		5	18%
Water	7732-18-5				82%

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. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation.
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. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
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 applicable.
Flash Point	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
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.
Special Remarks on Fire Hazards	Not applicable.

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	If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes
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	Liquid	Volatility	Not available
Molecular Weight	Not available	Odor Threshold	Not available
pH (1% Solution in Water)	1 (Acidic)	Water/Oil Dist. Coeff.	Not available
Boiling Point	The lowest known value is 100°C (212°F) (Water).	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	Not available
Vapor Pressure	Not available	Taste	Not available
Vapor Density	Not available	Color	Colorless to light yellow.

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	Highly corrosive. Incompatible with copper alloys.
Conditions of Instability	Not available.	Polymerization	Will not polymerize.
Incompatibility with Various Substances	Highly reactive with metals, alkalis.		

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(s) (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	Extremely hazardous in case of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive, irritant, permeator).

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 as toxic as the original product.
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, solution : UN1789 PG: 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

Catalog Number(s) RE/MA6

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 8/06/01

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.