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CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

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### Section I - Product Identification

An aqueous solution of hydrochloric acid.

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### Section II - Hazards Identification

Danger: Causes severe skin burns and eye damage. Wash thoroughly after handling. Wear protective clothing, eye and face protection. If swallowed, rinse mouth with water but do not induce vomiting. Immediately contact a poison control center. Remove contaminated clothing and wash before reuse. Rinse skin with water.

#### Safety Ratings

Health: Hazardous Flammability: None Reactivity: None Contact: Hazardous

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 0



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#### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other mineral acids.

*Inhalation:* Vapors are irritating and corrosive. Can cause pulmonary Edema and death.

*Ingestion:* Ingestion will cause corrosive damage to the gastrointestinal tract and nausea, vomiting, diarrhea, etc.

*Skin contact:* Corrosive to skin. Can cause deep chemical burns.

*Eye contact:* Vapors are irritating and corrosive. The solution is extremely corrosive and even brief contact can cause permanent injury

*Chronic Exposure:* Unknown

*Aggravation of preexisting conditions:* Unknown

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### Section III - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	%
Hydrochloric acid	7647-01-0	5 ppm (Ceiling)	2 ppm (Ceiling)		21.9% w/v

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### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure, support breathing if needed and get immediate medical attention.

*Ingestion:* Do not induce vomiting. Get immediate medical attention.

*Skin Contact:* Wash affected area with soap and water. Get medical advice.

*Eye Contact:* Rinse thoroughly with running water. Get immediate medial assistance.

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## Section V - Fire Fighting Measures

*Fire:* Not normally a fire Hazard,

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will release corrosive oxides.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are required.

*Eye Protection:* Laboratory safety goggles or similar products are a required part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 100 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear colorless liquid with the acrid odor of hydrochloric acid.

*Density:* 1.10 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Hydrochloric Acid	no	no	no	3

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## Section XII - Ecological Information

*Environmental Fate:* Biodegradable

*Environmental Toxicity:* None

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### Section XIII - Disposal Considerations

Local governments usually restrict the amounts of strong acids that may be flushed down the drain. Typically the pH of the sewage outflow from a building is restricted to between 4 and 10. Also, acids will corrode metal plumbing. If restricted, acids may usually be neutralized with base by qualified individuals and then flushed down the drain. Dispose of contents and container in accordance with all government regulations.

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### Section XIV - Transportation Information

DOT Shipping name: hydrochloric acid    DOT Hazard Class: 8    Packaging Group: II  
DOT Hazard Label: Corrosive    DOT Identification Number: UN1789

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### Section XV - Regulatory Information

#### Chemical Inventory Status

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Hydrochloric Acid	Yes	Yes

#### Federal, State and International Regulations

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Hydrochloric Acid	5000	500	Yes	No	No	No	No
Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: No							
SARA 311/312: Acute: Yes, Chronic: Yes, Fire: No							

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### Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

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