Medical Chemical Corp.
19430 Van Ness Ave.
Torrance, CA 90501
Customer Service: Phone (310)787-6800
FAX (310)787-4464
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.

Section I - Product Identification
An aqueous solution of hydrochloric acid.

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

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous</td>
<td>None</td>
<td>None</td>
<td>Hazardous</td>
</tr>
</tbody>
</table>

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

Storage: General storage

NFPA Ratings
Health = 2 Flammability = 0 Reactivity = 0

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

Section III - Composition/Information on Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric acid</td>
<td>7647-01-0</td>
<td>5 ppm (Ceiling)</td>
<td>2 ppm (Ceiling)</td>
<td>21.9% w/v</td>
<td></td>
</tr>
</tbody>
</table>

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.
Section V - Fire Fighting Measures

Fire: Not normally a fire hazard.
Explosion: Not normally an explosion hazard.
Fire Extinguishing Media: Any means suitable for surrounding fire.
Special information: Pyrolysis will release corrosive oxides.

Section VI - Accidental Release Measures
Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

Section VII - Handling and Storage
Store in a closed container, protected from freezing.

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.

Section IX - Physical and Chemical Properties
Boiling Point: 100 °C  
Density: 1.10 g/ml
Vapor pressure (mm Hg): 18 @ 20 °C  
Evaporation Rate (water = 1): 1
Vapor Density (air = 1): 0.6  
Solubility: Infinitely miscible with water
Appearance and Odor: A clear colorless liquid with the acrid odor of hydrochloric acid.

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.

Section XI - Toxicological Information
None relating to normal exposure.

Cancer lists

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>3</td>
</tr>
</tbody>
</table>

Section XII - Ecological Information

Environmental Fate: Biodegradable
Environmental Toxicity: None
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.

Section XIV - Transportation Information

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

Section XV - Regulatory Information

Chemical Inventory Status

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Federal, State and International Regulations

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA</th>
<th>TSCA</th>
<th>Ca. Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>RQ 5000</td>
<td>TPQ 500</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Chemical Weapons Convention: No</td>
<td>TSCA 12(b): No</td>
<td>CDTA: No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SARA 311/312: Acute: Yes, Chronic: Yes, Fire: No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section XVI - Other Information

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

Revision Date: Nov. 30, 2017