

Creation date: 05-01-15

Revision date: 02-23-21

Revision number: 1.0

## Section I - Product Identification

*Product:* A dilute aqueous solution of hydrochloric acid.

*Intended Uses:* Intended to be used as a general laboratory reagent.

*Uses advised against:* For laboratory use only.

### Manufacturer Identification

Medical Chemical Corp.  
19430 Van Ness Ave.  
Torrance, CA 90501

Customer Service: Phone (310)787-6800  
Email: Christinaavena@med-chem.com  
FAX (310)787-4464

### Emergency Telephone Number

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 II - Hazard Identification

This item is considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Eye damage/eye irritation:** Category 2B (H320). Causes serious eye irritation.

**Acute toxicity (Oral):** Category 5 (H303). May be harmful if swallowed.

**Acute toxicity (Dermal):** Category 5 (H313). May be harmful in contact with skin

**Corrosion:** (H290). May be corrosive to metals.

**Signal word:** Warning

### Hazard Statement:

According to the harmonized classification and labeling recommended by OSHA and the EU this solution is Irritating to the eye, skin and respiratory system. the toxicology of this solution has not been completely examined.

### Precautionary statements

- P102 Keep out of reach of children.
- P220 Keep away from clothing and other combustible materials.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P363 Wash contaminated clothing before reuse.

### Safety Ratings

*Health: Slight Flammability: None Reactivity: None Contact: Slight*

*Recommended safety equipment:* Not normally required.

### NFPA Ratings

Health = 1 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 solutions of dilute acids.

*Inhalation:* May be Irritating to respiratory tract.

*Ingestion:* While the toxicity of this compound is low, large doses will cause nausea, vomiting, diarrhea, etc

*Skin contact:* May cause skin damage. May cause skin irritation or aggravation of existing dermatitis.

*Eye contact:* A serious eye irritant.

*Chronic Exposure:* Unknown.

*Aggravation of preexisting conditions:* Unknown.

---

### Section III - Composition/Information on Components

Ingredient	CAS#	EC List #	%
Hydrochloric acid	7647-01-0	231-595-7	12% w/w

---

### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Do not induce vomiting. Contact a poison control center immediately

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

*Eye Contact:* Rinse thoroughly with running water. Get medical advice.

---

### Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Fire:* Not normally a fire hazard.

*Explosion:* Not normally an explosion hazard.

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

*Special information:* No data available.

---

### 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

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children.

---

### Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid	2 ppm Ceiling	5 ppm Ceiling	50 ppm

---

#### Legend

**ACGIH:** American Conference of Governmental Industrial Hygienists.

**OSHA:** Occupational Safety and Health Administration.

**NIOSH:** National Institute for Occupational Safety and Health.

**IDLH:** Immediately dangerous to life or health.

*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 not required but may be used as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practices

---

### 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 and odorless solution..

*Density:* About 1.02 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

---

### Section X - Stability and Reactivity

*Stability:* Stable under normal conditions.

*Hazardous Decomposition Products:* Decomposition will release corrosive vapors of hydrogen chloride.

*Hazardous polymerization:* Will not occur.

---

Incompatibilities: Nothing unusual.

Conditions to avoid: Nothing unusual.

## Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	238 mg/kg (Rat)	> 5 g/kg (Rabbit)	3124 ppm/hour (Rat)

### Cancer lists

Ingredient	Known Carcinogenicity?	NTP?	Anticipated?	IARC Category
Hydrochloric acid	No	No	No	3

## Section XII - Ecological Information

This product is not expected to bioaccumulate. The product biodegrades quickly and does not contain endocrine disrupters, persistent organic pollutants or ozone depleters.

**Soil Mobility:** Unknown

**Environmental Fate:** Biodegradable

**Environmental Toxicity:** The product has low environmental toxicity.

Component	Freshwater Fish	Water Flea	Freshwater algae
Hydrochloric acid	LC50 282 mg/l 96 h	No data	No data

## Section XIII - Disposal Considerations

Not normally restricted but ultimate authority resides with local government agencies. In jurisdictions that restrict drain disposal of dilute acids the usual rule is that the sewage exiting the building can't have a pH below 4. Insure compliance with all government regulations. Dilute acids are corrosive to metal plumbing

## Section XIV - Transportation Information

DOT Shipping name: Hydrochloric Acid Solution  
DOT Hazard Label: Corrosive

Hazard Class: 8      Packing Group: II  
DOT Identification Number: UN1789

Bottles smaller than 32 Fl. Oz. are eligible to be shipped under limited quantity exemptions [49 CFR section 173.154(b) and 173.154(C)].

## Section XV - Regulatory Information

### Chemical Inventory Status

Ingredient	TSCA	EC
Hydrochloric acid	Yes	Yes

### Federal, State and International Regulations

Ingredient	SARA 302		SARA 313		RCRA 261.33	TSCA 8(D)	Ca. Prop 65
	RQ	TPQ	List	Category			
Hydrochloric acid	No	No	No	No	No	No	No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: No

SARA 311/312: Acute: Yes, Chronic: No, Fire: No, Pressure: No

## Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

Document Number: S095  
Revision number: 1.0  
Revision Date: Feb, 23, 2021