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## Section I - Product Identification

*Product:* An aqueous solution of Acetic acid.

*Intended Uses:* A reagent for general laboratory use.

*Uses advised against:* Not for food use. Intended for laboratory use only.

*Country of origin:* United States.



### 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 not considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

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

**Serious eye damage/eye irritation:** Category 2A (H319). Causes serious eye irritation .

**Skin corrosion/irritation:** Category 2 (H315). Causes skin irritation.

The manufacturer is unaware of any serious chemical hazard associated with this product. The product may cause skin or eye irritation and may be harmful if swallowed.

**Signal word:** Warning

### Precautionary Statements

- P102 Keep out of reach of children.  
P260 Do not breathe mist, vapors or 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:* Slightly hazardous *Flammability:* None *Reactivity:* Stable *Contact:* None

*Recommended safety equipment:* Not normally required.

*Storage:* General storage

### NFPA Ratings

Health = 1. Can cause significant irritation.

Flammability = 1. Must be preheated before ignition can occur.

Reactivity = 0. Stable

### Potential Health Effects

The manufacturer is not aware of any serious hazards associated with this product..

*Inhalation:* May be Irritating to the respiratory tract.

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

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

*Eye contact:* Can cause eye irritation.

*Chronic Exposure:* Not likely to be an issue.

Aggravation of preexisting conditions: Unknown.

### Section III - Composition/Information on Components

Ingredient	CAS#	EC/List No.	%
Acetic Acid	64-19-7	200-580-7	12% v/v

### Section IV - First Aid Measures

*Inhalation:* Move victim to fresh air and be prepared to assist breathing. Get immediate medical attention.

*Ingestion:* Unlikely to be an issue. Get medical advice if needed.

*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 if irritation develops.

### Section V - Fire Fighting Measures

*Fire:* Not normally a fire hazard.

*Explosion:* Not normally an explosion hazard.

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

*Special information:* Nothing exceptional.

### Section VI - Accidental Release Measures

Absorb with a suitable absorbent 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
Acetic Acid	25 mg/m <sup>3</sup> TWA	25 mg/m <sup>3</sup> TWA	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 may be used as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are recommended as part of good laboratory practices

### Section IX - Physical and Chemical Properties

*Appearance and Odor:* A clear, colorless reagent with the odor of vinegar.

*Flash point:* Not applicable.

*Auto ignition temperature:* Not applicable

*Boiling point range:* No data

*Decomposition temperature:* Not applicable

*Melting point:* About 0 °C

*pH:* 2.2

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Viscosity:* ~ 0.01 poise

*Flammable Limits:*(For acetic acid): LEL 4.0%, UEL 19.9%.

*Boiling Point:* 100 - 102 °C

*Density:* 1.02 g/ml @ 22.5 °C (72.5 °C)

*Evaporation Rate (water = 1):* 1

*Octanol/water partition coefficient:* Not applicable

*Solubility:* Infinitely miscible with water

*Vapor Density (air = 1):* 0.6

*VOC:* 126 g/l (1 lb/gal)

### Section X - Stability and Reactivity

*Stability:* Stable under normal conditions.

*Hazardous Decomposition Products:* The manufacturer is unaware of any hazardous decomposition products under normal conditions.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Strong oxidizers, bases etc.

*Conditions to avoid:* Flames heat etc.

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## Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetic Acid	3.31 g/kg (Rat)	1.11 g/kg (Rabbit)	11.4 mg/l 4 h (Rat)

### Cancer lists

<i>Ingredient</i>	<i>Known Carcinogenicity?</i>	<i>NTP?</i>	<i>Anticipated?</i>	<i>IARC Category</i>
Acetic Acid	No	No	No	None

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## Section XII - Ecological Information

This product is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. 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.

For acetic acid

Toxicity to freshwater fish (rainbow trout): LC50 = >1000 mg/l, 96 h

Toxicity to invertebrates (water flea): EC50 = > 1000 mg/l, 48 h

Toxicity to freshwater algae (*Skeletonema costatum*): EC50 = 73 mg/l, 72 h

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## Section XIII - Disposal Considerations

Not normally restricted but ultimate authority resides with local government agencies. Insure compliance with all government regulations

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## Section XIV - Transportation Information

Not regulated by DOT or IATA.

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## Section XV - Regulatory Information

### Chemical Inventory Status

Ingredient      TSCA    EC

Acetic Acid      Yes      Yes

### Federal and State Regulations

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	<u>Ca. Prop 65</u>

Acetic Acid      No      No      No      No      No      No      No

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

### SARA 311/312

*Acute:*              No

*Chronic:*              No

*Fire:*                      No

*Pressure:*              No

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## 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.

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