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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.

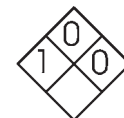
Manufacturer Identification

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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).

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

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

Acute toxicity (Dermal): Category 5 (H316). Causes mild 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.

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.

P363: Wash contaminated clothing before reuse.

P332+P317: If skin irritation occurs get medical help.

P337+P317: If eye irritation persists get medical help.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Safety Ratings

Health: Slightly hazardous *Flammability:* None *Reactivity:* None *Contact:* None

Recommended safety equipment: Not normally required.

Storage: General storage

NFPA Ratings

Health = 1. Can cause significant irritation.

Flammability = 0. Will not burn.

Reactivity = 0. Stable.

Potential Health Effects

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	3% v/v (3.2% w/w)

Section IV - First Aid Measures

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

Ingestion: Unlikely to be an issue. Get medical advise for exceptional cases.

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 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	NIOSH IDLH
Acetic Acid	10 ppm TWA	10 ppm TWA	10 ppm 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 not required but are recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are not required but 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.

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

Auto ignition temperature: 485 °C for acetic acid

Boiling point range: No data

Decomposition temperature: Not applicable

Melting point: About 0 °C

pH: 2.5

Vapor pressure (mm Hg): 18 @ 20 °C

Viscosity: ~ 0.01 poise

Boiling Point: 100 - 102 °C

Density: About 1.00 g/ml @ 22.5 °C (72.5 °F)

Evaporation Rate (water = 1): ~1

Octanol/water partition coefficient: Not applicable

Solubility: Infinitely miscible with water

Vapor Density (air = 1): 2.1 for acetic acid

Volatile organic carbon (VOC): 32 g/l

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: No known hazardous decomposition products.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Nothing unusual.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetic Acid	3,310 mg/kg (Rat)	1,110 mg/kg (Rabbit)	11.4 mg/l 4 h (Rat)

The product is non-toxic by ingestion or inhalation.

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

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

Section XIII - Disposal Considerations

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

Section XIV - Transportation Information

Not regulated by DOT, IATA or IMDG.

Section XV - Regulatory Information

Chemical Inventory Status

Ingredient *TSCA* *EC*

Acetic Acid Yes Yes

Federal and State Regulations

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

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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