

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Acetic Acid

SYNONYMS: Acetic acid (aqueous), Ethanoic acid, Methanecarboxylic acid

COMPANY: Everchem, LLC

ADDRESS: 1400 N. Providence Road, Suite 302, Media, PA 19063

CHEMTREC PHONE: 800-424-9300

PHONE: 484-234-5030

FAX: 484-234-5037

PRODUCT USE: Laboratory Reagent

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Flammable liquid (Category 3), Skin corrosion (Category 1A), Serious eye damage (Category 1)



Signal Word: Danger!

Hazard Phrases	
H226	Flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or a doctor/physician.
P305+P351+P338+P310	IN IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or a doctor/physician.
P363	Wash contaminated clothing before reuse.
P403+P235	Store in a well ventilated place. Keep cool.

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SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Acetic Acid	64-19-7	<=100%

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

SKIN: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

INGESTION: Do NOT induce vomiting. If victim is conscious and alert, rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

INHALATION: Remove person to fresh air. Seek medical attention. Give oxygen or artificial respiration as needed.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Flammable liquid

FLASH POINT: 39°C

AUTOIGNITION TEMPERATURE: 485°C

NFPA HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 0
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH:3 CHRIONIC HEALTH HAZARD * FLAMMABILITY:2 REACTIVITY: 0
PROTECTION:

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

NOT SUITABLE: Do Not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing with NIOSH approved breathing apparatus.

HAZARDOUS DECOMPOSITION PRODUCTS: Products of combustion may be harmful in a fire situation.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Dilute with water and mop up if water-soluble or absorb with an inert dry material and

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place in an appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

EYE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

SKIN PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

EXPOSURE GUIDELINES:

Component	Source	Type	Value	Note
Acetic Acid	OSHA PEL	TWA	10 ppm (25 mg/m ³)	
	NIOSH REL	TWA	10 ppm (25 mg/m ³)	
	ACGIH TLV	TWA	10 ppm	

SECTION 8 NOTES:

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear

ODOR: Sour, vinegar like odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 2.4 at 60.05 g/l

BOILING POINT: 244°F

MELTING POINT: N/A

FREEZING POINT: Pure compound is a solid below 62°F

VAPOR PRESSURE (mmHg): 11 mm Hg

VAPOR DENSITY (AIR = 1): No data available

EVAPORATION RATE: No data available

SOLUBILITY IN WATER: Soluble in water

MOLECULAR WEIGHT: 60.1 g/mol

VISCOSITY: Not established

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.

CONDITIONS TO AVOID (STABILITY): Heat, flames, and sparks

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers (especially chromic acid, sodium peroxide & nitric acid), strong caustics [Note: Corrosive to metals.]

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No data available

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

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Acute toxicity

Oral LD50

Rat – 3,310 mg/kg

Inhalation LC50

Mouse – 1 hr 5620 ppm Remarks: Sense organs and special senses (Nose, Eye, Ear, and Taste):
Eye:conjunctive irritation Eye:Other Blood: Other changes

Rat – 4 hr 11.4 mg/l

Dermal LD50

Rabbit – 1,112 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes: Rabbit

Result: Corrosive to eyes

Respiratory or skin sensitization

no data available

Carcinogenicity

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation Nose, throat, lung irritation. Pulmonary edema, coughing, shortness of breath.

Ingestion May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock.

Skin Causes skin irritation, burns.

Eyes Causes eye irritation, burns.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

ROUTES OF ENTRY: Inhalation, Skin and/or eye contact

ACUTE HEALTH HAZARDS: See above, potential health effects.

TARGET ORGANS: Eyes, skin, respiratory system, teeth

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:

Toxicity to fish: LC50 - Oncorhynchus mykiss (Rainbow trout) >1000 mg/l 96 hr

Toxicity to daphnia and other aquatic invertebrates: EC50 – Daphnia magna (water flea) >300.82 mg/l 48 hr

PERSISTENCE AND DEGRADABILITY: Readily biodegradable

BIOACCUMULATIVE POTENTIAL: no data available

MOBILITY IN SOIL: no data available

PBT and vPvB ASSESSMENT: no data available

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SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Unused product: dispose as a regulated hazardous waste. Burn in a chemical incinerator with an afterburner and scrubber but exert extra caution as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

RCRA HAZARD CLASS:

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Acetic Acid

HAZARD CLASS: 8 (3)

ID NUMBER: UN2789

PACKING GROUP: II

LABEL STATEMENT: Corrosive

ENVIRONMENTAL HAZARDS:

REPORTABLE QUANTITY 5000 LBS.

AIR TRANSPORTATION

PROPER SHIPPING NAME: Acetic Acid

HAZARD CLASS: 8 (3)

ID NUMBER: UN2789

PACKING GROUP: II

LABEL STATEMENTS: Corrosive

IMDG

PROPER SHIPPING NAME: Acetic Acid

HAZARD CLASS: 8 (3)

EMS-No: F-E, S-C

ID NUMBER: UN2789

PACKING GROUP: II

LABEL STATEMENTS: Corrosive

OTHER AGENCIES:

Canadian TDG:

PROPER SHIPPING NAME: Acetic Acid

HAZARD CLASS: 8 (3)

ID NUMBER: UN2789

PACKING GROUP: II

LABEL STATEMENTS: Corrosive, Flammable liquid

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

United States

HCS Classification: Combustible liquid

U.S. Federal regulations:

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United States inventory (TSCA 8b):

TSCA 8(d) H and S data reporting:

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals:

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Clean Water Act (CWA) 307:

Clean Water Act (CWA) 311: Reportable quantity: 5000 lbs

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

DEA List I & II Chemicals

(Precursor Chemicals):

Not listed

Massachusetts Substances:

The following components are listed: Acetic Acid

New Jersey Hazardous Substances:

The following components are listed: Acetic Acid

Pennsylvania RTK Hazardous Substances:

The following components are listed: Acetic Acid

Rhode Island Hazardous Substances:

The following components are listed: Acetic Acid

California Prop. 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

CANADA

WHMIS (Canada):

Class B-3: Combustible liquid

Class E: Corrosive material

Canadian lists:

CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: The following components are listed:

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL:

All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists:

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): Not determined.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): All components are listed or exempted.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (U.S.A.)



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DISCLAIMER: This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Everchem be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

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