

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Glacial Acetic Acid
SYNONYMS: Acetic acid, Ethanoic acid, Methanecarboxylic acid
PRODUCT CODES: ES638-16, ES638-1G, ES17400-500ML, ES17400-2.5L

MANUFACTURER: Azer Scientific, Inc.
ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

CHEMTREC PHONE: 800-424-9300
SUPPORT: 610-524-5810
FAX: 610-901-3046

PRODUCT USE: laboratory Reagent
PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Flammable liquid Category 3; Skin Corrosion/Irritation Category 1A; Serious eye damage/irritation Category 1



Signal Word: Danger!

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

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/ protective clothing/eye protection/ face protection.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P307+P311	IF exposed: Call a POISON CENTER or doctor/ physician.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	% WT
Glacial Acetic Acid	64-19-7	>99%

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If skin irritation occurs: Get medical attention/advice.

INGESTION: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

SECTION 4 NOTES: Note to Physician: Persons with pre-existing skin disorders or impaired respiratory/pulmonary function may be at increased risk of exposure. Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Flammable liquid

FLASH POINT: 40°C (104°F)

AUTOIGNITION TEMPERATURE: 427°C (801°F)

NFPA HAZARD CLASSIFICATION

HEALTH:3 FLAMMABILITY: 2 REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH:3 CHRONIC HEALTH HAZARD * FLAMMABILITY: 2 REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

NOT SUITABLE: Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: In a fire or if heated, a pressure increase will occur and the container may burst with the risk of a subsequent explosion. Run-off to sewer may create fire or explosion hazard. Wear protective clothing with NIOSH approved breathing apparatus.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon expected to be the primary combustion product.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up if water-soluble or absorb with an inert dry material and 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.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not breathe vapors. Do not eat, drink or smoke when using this product. Keep away from heat, sparks and open flames, hot surfaces. Keep container tightly closed

STORAGE: Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are close to the workstation.

PERSONAL PROTECTIVE MEASURES: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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.

EXPOSURE GUIDELINES:

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS#	OSHA PEL TWA
Acetic Acid	64-19-7	10 ppm (25 mg/m ³)

ACGIH Threshold Limit values (TLVs):

Reagent	CAS#	ACGIH PEL TWA	ACGIH STEL
Acetic Acid	64-19-7	10 ppm	15 ppm (37 mg/m ³)

SECTION 8 NOTES: Avoid releasing large quantities into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless

ODOR: Pungent vinegar odor

PHYSICAL STATE: liquid

pH AS SUPPLIED: <0.1

BOILING POINT: 117-118°C @760mmHg

MELTING POINT/ FREEZING POINT: 16.6°C

VAPOR PRESSURE (mmHg): 11.4

VAPOR DENSITY (AIR = 1): 2.1

EVAPORATION RATE: 0.97
SOLUBILITY IN WATER: Soluble in water
MOLECULAR WEIGHT: 60.05
VISCOSITY: 1.22 cP

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.
CONDITIONS TO AVOID (STABILITY): Direct sunlight. Extreme high or low temperatures.
INCOMPATIBILITY (MATERIAL TO AVOID): Reacts violently with oxidizing materials.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: oxides of carbon.
HAZARDOUS POLYMERIZATION: No hazardous polymerization
CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral: Acetic Acid LD50 Oral, Rat 3,310 mg/kg
Inhalation: Acetic Acid LC50 Rat 11.4 mg/l/4hr; LC50 Inhalation, Mouse 5620 ppm/1hr.
Dermal: Acetic Acid LD50 Rabbit 1,060 µl/kg
Other information on acute toxicity: No data available
Skin corrosion/irritation: No data available
Eyes: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: (NTP, IARC, OSHA): Not listed as a carcinogen.
Aspiration hazard: No data available

ACUTE EXPOSURE HAZARDS:

Inhalation: Nose, throat, lung irritation. Pulmonary edema, coughing, shortness of breath.
Ingestion: May cause severe and permanent damage of the linings of the mouth, throat, and GI tract
Skin: Causes skin burns. May be harmful if absorbed through the skin.
Eyes: Causes serious eye damage. Contact with liquid or vapor causes severe burns and possible irreversible eye damage.

SIGNS AND SYMPTOMS OF EXPOSURE: Effects may be delayed. Causes chemical burn to the respiratory tract. Exposure may lead to bronchitis, pharyngitis, and dental erosion.

ROUTES OF ENTRY: Skin/eye contact, inhalation, and ingestion.

TARGET ORGANS: No data available

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL TOXICITY:

Acetic Acid: LC50 Pimphales promelas Exposure time 96 hr 79mg/l
EC50 Daphnia magna Exposure time 48 hr 65mg/l

PERSISTENCE AND DEGRADABILITY: Biodegradation is expected

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely.

MOBILITY IN SOIL: No data available

PBT and vPvB ASSESSMENT: Not required.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

RCRA HAZARD CLASS: Not classified

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

Proper Shipping Name: Acetic Acid, glacial
Hazard Class: 8 (3)
ID Number: UN2789
Packing Group: II
Label Statement: Corrosive
Reportable Quantity: 5000 LBS.

AIR TRANSPORTATION

Proper Shipping Name: Acetic Acid, glacial
Hazard Class: 8 (3)
ID Number: UN2789
Packing Group: II
Label Statement: Corrosive

IMDG

Proper Shipping Name: Acetic Acid, glacial
Hazard Class: 8 (3)
EMS-No: F-E, S-C
ID Number: UN2789
Packing Group: II
Label Statement: Corrosive

OTHER AGENCIES:

Canadian TDG:

PROPER SHIPPING NAME: Acetic Acid, glacial
HAZARD CLASS: 8 (3)
ID NUMBER: UN2789
PACKING GROUP: II
LABEL STATEMENTS: Corrosive, Flammable liquid

SECTION 15: REGULATORY INFORMATION

United States

HCS Classification: Corrosive

U.S. Federal regulations:

TSCA 8(a) IUR: Listed on inventory.

United States inventory (TSCA 8b): Listed on 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: No products were found.

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

Acute Health Hazard, Delayed Health Hazard,

SARA 313 Form R - Reporting: The following components are subject to reporting levels established by SARA Title III, Section 313:

DEA List I & II Chemicals

(Precursor Chemicals): Not Listed

CERCLA: CAS# 64-19-7 5000lb, final RQ

RTK STATES: Acetic Acid CAS# 64-19-7 PA, MA, NJ, RI, MN

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): Acetic Acid (64-19-7) 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: 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): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

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

SECTION 16: OTHER INFORMATION

National Fire Protection Association (NFPA)



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 Azer Scientific 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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