

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Acetic Acid solution, 0.5%

**SYNONYMS:** None

**PRODUCT CODES:** Component of Special Stain Kits - ES4820, ES3399, ES4801

**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:** Skin Corrosion/Irritation Category 2; Serious eye damage/irritation Category 2A



**Signal Word:** Warning!

Hazard Phrases	
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary Phrases	
P280	Wear protective gloves/ eye protection/ face protection.
P264	Wash hands thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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.
P337+P315	If eye irritation persists: Get medical attention/advice.

**SECTION 2 NOTES:**

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Description:** Mixture

**\*May contain additional non-hazardous proprietary ingredients.**

**\*\*May contain additional active ingredients at concentrations <1% w/v**

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Acetic Acid	64-19-7	≤0.5

**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 if irritation persists.

**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. Clean shoes thoroughly before reuse. Get medical if irritation develops.

**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. Get medical attention immediately.

**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 if symptoms worsen.

**SECTION 4 NOTES:**

**SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABILITY OF THE PRODUCT:**

**FLASH POINT:** Not Available

**AUTOIGNITION TEMPERATURE:** Not Available

**NFPA HAZARD CLASSIFICATION**

**HEALTH:1 FLAMMABILITY: 0 REACTIVITY: 0**

**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH:1 FLAMMABILITY: 0 REACTIVITY: 0**

**PROTECTION: B**

**EXTINGUISHING MEDIA:** Use extinguishing media suitable for surrounding fire.

**NOT SUITABLE:** Do not use water jet.

**SPECIAL FIRE FIGHTING PROCEDURES:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not available for mixture

**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 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:** Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing vapor.

**STORAGE:** Store in accordance with local regulations. Store in a segregated and approved area. Store in a well-ventilated area. Store at 15-30°C

**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.

**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:** 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

**HANDS:** 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

**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 <sup>3</sup> )

**ACGIH Threshold Limit values (TLVs):**

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

**SECTION 8 NOTES:**
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Clear, colorless

**ODOR:** Slight vinegar odor

**PHYSICAL STATE:** liquid

**pH AS SUPPLIED:** Not Available

**BOILING POINT:** Not available

**MELTING POINT:** Not available

**FREEZING POINT:** ~0°C  
**VAPOR PRESSURE (mmHg):** Not available  
**VAPOR DENSITY (AIR = 1):** Not available  
**EVAPORATION RATE:** ~1  
**SOLUBILITY IN WATER:** Soluble in water  
**MOLECULAR WEIGHT:** Mixture  
**VISCOSITY:** Not established

**SECTION 9 NOTES:**

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** Product is stable under normal conditions of use.  
**CONDITIONS TO AVOID (STABILITY):** Excessive heat  
**INCOMPATIBILITY (MATERIAL TO AVOID):** None known  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known  
**HAZARDOUS POLYMERIZATION:** No hazardous polymerization  
**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

**SECTION 10 NOTES:**

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**

Oral: Acetic Acid LD50 Oral 3,310 mg/kg  
Inhalation: Acetic Acid LC50 Rat 11.4 mg/l/4hr  
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

Potential health effects:

**Inhalation:** May cause respiratory irritation.  
**Ingestion:** May cause irritation of the linings of the mouth, throat, and GI tract  
**Skin:** Causes skin irritation.  
**Eyes:** Causes serious eye damage.

Signs and Symptoms of Exposure: Repeated or prolonged skin contact may cause dermatitis and defatting.

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

**TARGET ORGANS:** Not available

**SECTION 11 NOTES:**

**SECTION 12: ECOLOGICAL INFORMATION**

**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.

**SECTION 13 NOTES:**

**SECTION 14: TRANSPORT INFORMATION**

**U.S. DEPARTMENT OF TRANSPORTATION:** NOT REGULATED

**TDG:** NOT REGULATED

**IATA:** NOT REGULATED

**IMDG/IMP:** NOT REGULATED

**SECTION 15: REGULATORY INFORMATION**

**United States**

**HCS Classification:** Corrosive

**U.S. Federal regulations:**

**TSCA 8(a) IUR:** Partial exemption

**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:** No products were found.

**SARA 313 Form R - Reporting:**

**DEA List I & II Chemicals**

**(Precursor Chemicals):** Not Listed

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

**California Prop. 65**

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None

**CANADA**

**WHMIS (Canada):** Class E Corrosive Material

**Canadian lists:**

**CEPA Toxic substances:** The following components are listed: None.

**Canadian ARET:** None of the components are listed.

**Canadian NPRI:** The following components are listed: None

**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 (U.S.A.)



**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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