

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Cytology Fixative Spray

**SYNONYMS:** None

**PRODUCT CODES:** ES3417, ES34841

**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:** Biological Stain

**PREPARED BY:** CB

### SECTION 1 NOTES:

## SECTION 2: HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:** Flammable liquid Category 2; Skin Corrosion/Irritation Category 2; Serious eye damage/irritation Category 2A; Specific Target Organ Toxicity - single exposure Category 3



**Signal Word:** Danger!

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
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.
P307+P311	IF exposed: Call a POISON CENTER or doctor/ physician.

### SECTION 2 NOTES:

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Isopropanol	67-63-0	73
Acetone	67-64-1	20

Polyethylene glycol	25322-68-3	<8
Water	7732-18-5	balance

**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 if you feel unwell.

**SECTION 4 NOTES:**

**SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABILITY OF THE PRODUCT:** Flammable liquid

**FLASH POINT:** Not available

**AUTOIGNITION TEMPERATURE:** Not available

**NFPA HAZARD CLASSIFICATION**

**HEALTH:1 FLAMMABILITY: 3 REACTIVITY: 0**

**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH:1 FLAMMABILITY: 3 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:** Flammable liquid. 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.

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

**SECTION 5 NOTES:** Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:**

**Small spill and leak:** Shut off all ignition sources. 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. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**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
Isopropyl Alcohol	67-63-0	400ppm
Acetone	67-64-1	750 ppm

### ACGIH Threshold Limit values (TLVs):

Reagent	CAS#	ACGIH PEL TWA	ACGIH STEL
Isopropyl Alcohol	67-63-0	400ppm (983 mg/m <sup>3</sup> )	500ppm (1230 mg/m <sup>3</sup> )
Acetone	67-64-1	500 ppm 8 hour(s)	750 ppm 15 minute(s)

## SECTION 8 NOTES:

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear

**ODOR:** Alcohol like

**PHYSICAL STATE:** liquid

**pH AS SUPPLIED:** Not available  
**BOILING POINT:** 169°F (76°C)  
**MELTING POINT:** Not available  
**FREEZING POINT:** -151°F (-101°C)  
**VAPOR PRESSURE (mmHg):** Not available  
**VAPOR DENSITY (AIR = 1):** 1.5  
**EVAPORATION RATE:** Not available  
**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):** Avoid heat, sparks, flames, and all other sources of ignition.  
**INCOMPATIBILITY (MATERIAL TO AVOID):** Slightly reactive with oxidizing materials and acids.  
**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:** Heat, open flame

**SECTION 10 NOTES:**

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY:**

Oral: Isopropanol: LD50 (oral, mouse) = 3600 mg/kg, LD50 (oral, rat) = 5045 mg/kg  
Acetone: LD50 (oral, rat) = 5.8g/kg  
Polyethylene glycol: LD50 (oral, rat) 28 gm/kg

Inhalation: Isopropanol: LC50 (inhalation, mouse) = 53000 mg/m<sup>3</sup>, LC50 (inhalation, rat) = 72000 mg/m<sup>3</sup>  
Acetone: LC50 21,142 ppm (8 hr) inhalation rat

Dermal LD50: Acetone: Rabbit LD50 20g/kg

Other information on acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation

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 Harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if ingested

Skin Causes skin irritation.

Eyes Causes eye irritation.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Prolonged exposure can be irritating to mucosal membranes, skin, respiratory system. Can cause liver and kidney damage.

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

**TARGET ORGANS:** Respiratory system

**SECTION 11 NOTES:**

SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL TOXICITY:** No data available

**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**

UN No. UN1993

Proper Shipping Name: Flammable liquid n.o.s. (Isopropanol, Acetone)

Hazard Class: 3

Packing Group: II

**TDG**

UN No. UN1993

Proper Shipping Name: Flammable liquid n.o.s. (Isopropanol, Acetone)

Hazard Class: 3

Packing Group: II

**IATA**

UN No. UN1993

Proper Shipping Name: Flammable liquid n.o.s. (Isopropanol, Acetone)

Hazard Class: 3

Packing Group: II

**IMDG/IMP**

UN No. UN1993

Proper Shipping Name: Flammable liquid n.o.s. (Isopropanol, Acetone)

Hazard Class: 3

Subsidiary Hazard Class: EMS-No: F-E, S-D

Packing Group: II

SECTION 15: REGULATORY INFORMATION

**United States**

**HCS Classification:** Flammable liquid, Toxic material, Irritating material, Target organ effects

**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:**

Acute Health Hazard; Chronic Health Hazard; Fire Hazard

**DEA List I & II Chemicals**

**(Precursor Chemicals):** Not Listed

**RTK STATES:** Isopropyl Alcohol CAS 67-63-0 CT, MA, NJ, PA, RI Acetone CAS 67-64-1 CA, MN, MA, NJ, PA, RI

**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-2: Flammable Liquid  
Class D-1B: Toxic 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.

**PREPARATION INFORMATION: 12/28/2015 REV1**

**Reviewed 02/27/2017**