

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Gram Safranin Solution

**SYNONYMS:** None

**PRODUCT CODES:** ES800 (Kit), ES801 (Kit), ES806, ES812

**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 4; Skin Irritation Category 3; Serious Eye Irritation Category 2A; Hazardous to aquatic environment long term/chronic effects Category 3



**Signal Word:** Warning!

| Hazard Phrases |  |
|----------------|--|
| H227           | Combustible liquid.                                |
| H316           | Causes mild skin irritation.                       |
| H319           | Causes serious eye irritation.                     |
| H412           | Harmful to aquatic life with long lasting effects. |

| Precautionary Phrases |  |
|-----------------------|--|
| P210                  | Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.                                  |
| P260                  | Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.   |
| P280                  | Wear protective gloves/ eye protection/ face protection.   |
| P305+P351+P338        | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313             | IF exposed or concerned: Get medical advice/attention.   |
| P273                  | Avoid release to the environment.  |

### SECTION 2 NOTES:

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT:       | CAS NO.  | % WT |
|-------------------|----------|------|
| Ethanol           | 64-17-5  | <18  |
| Isopropyl Alcohol | 67-63-0  | <1   |
| Safranin O        | 477-73-6 | <1   |

Water

7732-18-5

&lt;90

**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. Get medical attention if irritation persists.

**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 you feel unwell.

**SECTION 4 NOTES:****SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABILITY OF THE PRODUCT:** Combustible liquid

**FLASH POINT:** Not available

**AUTOIGNITION TEMPERATURE:** Not available

**NFPA HAZARD CLASSIFICATION**

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

**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH:1    FLAMMABILITY: 1    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:****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:** Shut off all ignition sources. 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 get in eyes, 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.

**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. Store and use away from heat, sparks, open flame or any other ignition source. Store at Room Temperature.

## 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:

| Reagent           | CAS#    | OSHA PEL TWA                           | Note  |
|-------------------|---------|--|---|
| Ethyl Alcohol     | 64-17-5 | 1000 ppm<br>(1,900 mg/m <sup>3</sup> ) | 29 CFR 1910.1000 Table Z-1<br>Limits for Air Containments |
| Isopropyl Alcohol | 67-63-0 | 400ppm (980 mg/m <sup>3</sup> )        |   |

## ACGIH Threshold Limit values (TLVs):

| Reagent       | CAS#    | ACGIH PEL TWA | ACGIH STEL | Note   |
|---------------|---------|---------------|------------|--|
| Ethyl Alcohol | 64-17-5 |               | 1000 ppm   | Upper respiratory tract irritation.<br>Confirmed animal carcinogen with<br>unknown relevance to humans |

|                   |         |         |         |  |
|-------------------|---------|---------|---------|--|
| Isopropyl Alcohol | 67-63-0 | 200 ppm | 400 ppm |  |
|-------------------|---------|---------|---------|--|

## SECTION 8 NOTES:

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Red  
**ODOR:** Alcohol like  
**PHYSICAL STATE:** liquid  
**pH AS SUPPLIED:** 6.3  
**BOILING POINT:** Not available  
**MELTING POINT:** Not available  
**FREEZING POINT:** Not available  
**VAPOR PRESSURE (mmHg):** Not available  
**VAPOR DENSITY (AIR = 1):** Not available  
**EVAPORATION RATE:** <11%  
**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):** Highly reactive or incompatible with the following materials: oxidizing materials and metals. Reactive or incompatible with the following materials: reducing materials, 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 (POLYMERIZATION):** N/A

## SECTION 10 NOTES:

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral LD50: no data available  
 Inhalation LC50: no data available  
 Dermal LD50: no data available  
 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: no data available  
 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 Harmful if inhaled. Causes respiratory tract irritation.  
 Ingestion May be harmful if swallowed.  
 Skin May be harmful if absorbed through skin.

Eyes Causes eye irritation.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Effects due to ingestion may include: Gastrointestinal disturbance, Headache, Nausea, Vomiting, Dizziness, Weakness, Confusion, Drowsiness, Unconsciousness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

**TARGET ORGANS:** Kidney, Liver, Heart, Central nervous system

**SECTION 11 NOTES:**

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY:**

**Acute fish Toxicity (Ethanol)**

LC50 Oncorhynchus mykiss (rainbow trout) >10,000 mg/l 96hr

LC50 Pimephales promelas (fathead minnow) >13,400 mg/l 96hr

**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:** NOT REGULATED

**TDG:** NOT REGULATED

**IATA:** NOT REGULATED

**IMDG/IMP:** NOT REGULATED

**SECTION 15: REGULATORY INFORMATION**

**United States**

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

**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; Chronic Health Hazard, Fire 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:** No products found

**RTK STATES:** Ethanol CAS#64-17-5 PA, NJ, MA, FL Isopropyl Alcohol CAS#67-63-0 CT, MA, NJ, PA

**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 D2A: Very toxic material causing other toxic effects  
Class B3: Combustible liquid

**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:

**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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