

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Sternheimer-Malbin Stain

**SYNONYMS:** None

**PRODUCT CODES:** ES939, ES940

**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:** Skin Corrosion/Irritation Category 3; Serious eye damage/irritation Category 2; Specific Target Organ Toxicity - single exposure Category 1; Carcinogenicity Category 2



**Signal Word:** Danger!

Hazard Phrases	
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H370	Causes damage to organs.
H351	Suspected of causing cancer.

Precautionary Phrases	
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P264	Wash hands thoroughly after handling.
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.
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>% vol</b>
Isopropyl Alcohol	67-63-0	<1
Ethyl Alcohol	64-17-5	<10

Crystal Violet	17372-87-1	<1
Safranin	477-73-6	<1
Ammonium oxalate	6009-70-7	<0.5
Water	7732-18-5	<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 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:

**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:** Small fire - use DRY chemical powder. Large fire - use alcohol resistant foam, water spray or fog.

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

**SPECIAL FIRE FIGHTING PROCEDURES:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Strong vapors and irritants, carbon monoxide, carbon dioxide

## SECTION 5 NOTES:

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Dilute with water and mop, or absorb with an inert dry material and place in appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Absorb with DRY earth, sand, or other non-combustible material. Avoid skin and eye contact. Prevent entry into sewers, basements or confined areas; dike if needed.

## SECTION 6 NOTES:

## SECTION 7: HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes and skin. Do not breathe vapor or mist. Avoid prolonged or repeated contact with skin. If potential for splashing exists, protect skin by using sleeve protectors, aprons and face-shield. Wash thoroughly after handling.

**STORAGE:** Keep containers closed and out of reach of children. 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.

**PERSONAL PROTECTIVE MEASURES:** Wear gloves, lab coat, eye protection and impervious footwear. Approved/certified respirator if airborne concentrations exceed exposure limits

**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	Note
Ethyl Alcohol	64-17-5	1000 ppm (1,900 mg/m <sup>3</sup> )	29 CFR 1910.1000 Table Z-1 Limits for Air Containments

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

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

### SECTION 8 NOTES:

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Violet/purple

**ODOR:** alcohol like

**PHYSICAL STATE:** liquid

**pH AS SUPPLIED:** Not Available

**BOILING POINT:** Not Available

**MELTING POINT/FREEZING POINT:** Not Available

**VAPOR PRESSURE (mmHg):** Not Available

**VAPOR DENSITY (AIR = 1):** Not Available

**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):** Excessive heat

**INCOMPATIBILITY (MATERIAL TO AVOID):** Reactive 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:** Heat, open flame

**SECTION 10 NOTES:****SECTION 11: TOXICOLOGICAL INFORMATION****ACUTE TOXICITY:**

Numerical Measures: 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: No components are classified as human carcinogen.

Aspiration hazard: no data available

**POTENTIAL HEALTH EFFECTS**

**EYES:** Hazardous in case of eye contact (irritant).

**SKIN:** May cause skin irritation.

**INGESTION:** May be harmful if swallowed

**INHALATION:** May be harmful if inhaled.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Dermatitis, conjunctivitis.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Irritation eyes, skin, nose, mucous membrane; headache, dermatitis

**ROUTES OF ENTRY:** Skin/eye contact, inhalation

**TARGET ORGANS:** Respiratory system

**SECTION 11 NOTES:****SECTION 12: ECOLOGICAL INFORMATION****ECOLOGICAL TOXICITY:**

Fish: No relevant studies identified.

Crustacea: No relevant studies identified.

Algae/Aquatic Plants: No relevant studies identified.

Other Organisms: No relevant studies identified.

**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:** U122

**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:** Not classified

**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:** Ethanol CAS 64-17-5 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 D-2B: Material causing other toxic effects (Toxic 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: Ethanol,  
Volatile organic compounds

**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:**

Prepared 05/15/2018 REV1