

MSDS**Material Safety Data Sheet**

24 HOUR EMERGENCY
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Sternheimer Malbin Stain

Section I: IDENTIFICATION

Product Name: **Sternheimer Malbin Stain**

Azer Scientific Order Number(s): **ES939, ES940, ES940-2, ES940-4**

Section II: HAZARDOUS INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OSHA PEL, ACGIH TLV/STEL (PPM)</i>	NFPA
Isopropyl	< 1%	67-63-0	Health 1 Flammability 0 Reactivity 0
Ethanol	~ 9%	64-17-5 1000	

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~210°F	<i>Specific Gravity (H₂O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20 °C:</i>	79	<i>Percent Volatile by Vol:</i>	~9%
<i>Vapor Density (Air 1:1):</i>	>1	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Purple/maroon liquid, pungent odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: NA *Flammable Limits:* LEL, NA UEL, NA

Extinguishing Media: Water spray, dry chemical, CO₂

Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

Unusual Fire & Explosion Hazards: Normal fire precautions.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong oxidizers, chromic anhydride, perchloric acids etc.

Hazardous Decomposition or Byproducts: Oxides of carbon

Hazardous Polymerization: Does not occur

Conditions to Avoid: Excessive heat

Section VI: HEALTH HAZARDS

Routes of Entry: Inhalation, Skin and Ingestion

Acute: Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.

Chronic: May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Vision blurring, drowsiness and headache.

Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persists.

Ingestion: Rinse mouth thoroughly with water, provide person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Isolate the spill area with sand, or other absorbent material. Place all contaminated material in close container for disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggest method of disposal. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Use normal precautions for laboratory reagents. Avoid excessive heat. Use in ventilated area.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

Ventilation: Mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant

Eye Protection: Safety Glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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