



## SAFETY DATA SHEET

### 1. Product and Company Identification

#### **1.1 Product Identifiers:**

**Product Name:** Phantom Premium Modified Harris Hematoxylin.

**Catalog Number(s):** 7111, and 7113.

#### **1.2 Relevant Use of the Product and Uses Advised Against:**

**Relevant use:** Biological stain for use in histology and cytology as a nuclear stain.

**Uses advised against:** No information available.

#### **1.3 Details of the Supplier of the Safety Data Sheet:**

**Company:** Scigen Inc.

333 East Gardena Blvd.

Gardena, CA 90248

**1.4 Emergency Telephone Number:** 1.310 324.6576

### 2. Hazard(s) Identification

#### **2.1 Classification of the Substance or Mixture:**

GHS classification in accordance with 29 CFR 1910

Acute Oral Toxicity: Category 4 H302

Skin Corrosion: Category 1A H314

Serious Eye Damage: Category 1 H318

Specific Target Organ Toxicity Central Nervous System Single Exposure: Category 3.

Specific Target Organ Toxicity Repeated Exposure Kidney and Liver: Category 2.

## **2.2 GHS Label Elements, Including Precautionary Statements:**

GHS Label Elements: Exempt from GHS OSHA labeling mandate.

Hazard Pictograms: Exempt from GHS OSHA labeling mandate.

Single Word: Exempt from GHS OSHA labeling mandate.

Hazardous Statements: Exempt from GHS OSHA labeling mandate.

Reagents that are used for diagnosis and treatment of diseases are considered medical devices; which are under the jurisdiction of the FDA and are exempt from the OSHA labeling mandate.

**2.3 Hazards Not Otherwise Classified by GHS:** None.

**2.4 >1% Of Mixture With Unknown Acute Toxicity (GHS US):** Not available.

## **3. Composition/Information on Ingredients**

**3.1 Substance:** Not Applicable.

**3.2 Mixture:** Hazardous Components.

<b>Chemical Name:</b>	<b>CAS Number:</b>	<b>Composition by %:</b>
Acetic Acid	64-19-7	>1.5
Aluminum Sulfate	10043-01-3	>4-8
Ethylene Glycol	107-21-1	23-28
ProClin 300	517-28-2	>3

## **4. First Aid Measures**

### **4.1 Description of First Aid Measures:**

**General Advise:** Never give anything to an unconscious person. If you feel unwell, seek medical attention. Provide consulting physician with this safety data sheet.

**Eye Contact:** Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If symptoms persist after washing consult a physician.

**Skin Contact:** For minor exposure, prolonged, repeated exposure, remove contaminated clothing, including footwear. Wash affected area with mild soap and water for at least 15 minutes. For severe conditions or if a rash occurs consult a physician.

**Inhalation:** If coughing or difficulty in breathing is experienced, remove victim from exposure to fresh air immediately. Administer oxygen or artificial respiration if needed. Consult a physician.

**Ingestion:** Call a poison control center immediately. If victim is conscious and alert give several glasses of water to dilute the solution. Do not induce vomiting unless advised to do so by a physician or poison control authority.

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed:**

**General:** May cause serious eye damage, harmful if swallowed, may cause skin irritation.

**Inhalation:** Vapor or mist may cause respiration irritation.

**Skin Contact:** Prolonged skin contact may cause mild irritation.

**Eye Contact:** May cause irritation or serious damage.

**Ingestion:** May be harmful if swallowed, get medical attention.

**4.3 Indication of any Immediate Medical Attention and Special Treatment:**

Get immediate medical attention if ingested.

## 5. Fire-Fighting Measures

**5.1 Suitable (and Unsuitable) Extinguishing Media:**

Use any media suitable for the surrounding fire.

**5.2 Specific Hazards Arising From the Substance or Mixture:**

Thermal decomposition may lead to the release of irritating gases and vapors.

**5.3 Special Protective Equipment and Precautions for Firefighters:**

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH and full protective gear (sealed chemical suits) are necessary for fighting fires involving substantial volumes of this product. Thermal decomposition may generate highly irritating and toxic fumes due to ethylene glycol.

## 6. Accidental Release Measures

**6.1 Personal Precautions, Protective Equipment, and Emergency Procedures:**

Spills and Leaks: Wear protective gloves, impermeable apron or lab coat, and splash proof goggles. Avoid contact with skin, eyes, and clothing. Ventilate the area.

**6.2 Environmental Precautions:**

Prevent entry into sewers and waterways.

**6.3 Methods and Materials for Containment and Cleaning Up:**

Small spills; use a damp sponge or mop to absorb spilled liquid. Wash contaminated area with copious amounts of water. Stained area can be decolorized with household bleach. Large spills; absorbed with inert material (vermiculite, sand or earth), then place in a suitable container for disposal. Always comply with local, state, and federal regulations.

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling:

Wash hands thoroughly after handling. Avoid contact with eye, skin, and clothing. Wear protective gloves, impermeable apron, or lab coat, and splash proof goggles when handling. Do not wear contaminated clothing after a spill. Keep container closed, do not inhale or ingest.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store product in tightly closed container in a well-ventilated cool dry area. Protect from freezing, store at room temperature 15-30<sup>0</sup>C.

## 8. Exposure Controls/Personal Protection

### 8.1 Control Parameters:

Component	CAS Number	Control Parameters	Limit Values	Agency(s)
Acetic Acid	64-19-7	TWA (8 Hour)	10 ppm	OSHA NIOSH ACGIH
		STEL (15 minutes)	15 ppm	NIOSH ACGIH
Aluminum Sulfate	10043-01-3	Not established for solutions		
Ethylene Glycol	107-21-1	Ceiling (aerosol)	100mg/m <sup>3</sup>	ACGIH

### 8.2 Appropriate Engineering Controls:

Eye wash and safety shower should be available in working and storage vicinity. Use adequate general or local ventilation system to keep airborne concentration below the permissible exposure limits of the product components. Normal room ventilation is usually adequate.

### 8.3 Personal Protective Equipment:

Wear protective gloves (nitrile), impermeable apron or lab coat and splash proof goggles when handling this product. Under normal laboratory conditions the use of a respirator is not necessary.

## 9. Physical and Chemical Properties

**Physical State:** Liquid.

**Color:** Dark purple.

**Odor:** Mild acidic.

**Odor Threshold:** Not determined.

**pH:** 2.2-2.6.

**Melting Point:** Not determined.

**Freezing Point:** Not determined.

**Initial Boiling Point:** Not determined.

**Boiling Range:** Not determined.

**Flash Point:** Not applicable.

**Evaporation Rate:** Not determined.

**Flammability Rate (solid, gas):** Not determined.

**Explosive Limits:**

- Upper Limits: Not determined.
- Lower Limits: Not determined.

**Vapor Pressure:** Not determined.

**Vapor Density:** Not determined.

**Relative Density:** Not determined.

**Water Solubility:** Not determined.

**Partition Coefficient (n-octanol/water):** Not determined.

**Auto-ignition Temperature:** Product does not self-ignite.

**Decomposition Temperature:** Not determined.

## 10 . Stability and Reactivity

**10.1 Chemical Stability:** Stable under normal laboratory conditions.

**10.2 Possibility of Hazardous Reactions:** No hazardous reactions known under normal laboratory use or laboratory conditions.

**10.3 Conditions to Avoid:** Direct sun light, extremely high or low temperatures.

**10.4 Incompatible Materials:** Strong oxidants, strong acids and strong bases.

**10.5 Hazardous Decomposition Products:** Under fire conditions; carbon monoxide, carbon dioxide, sulfur oxides, ethylene glycol and fumes of aluminum oxide.

## 11. Toxicological Information

**11.1 Acute Toxicity:** Inhalation LD50: Data not available.

**Dermal LD50:** Data not available.

**Oral LD50:** Data not available.

**Inhalation Effects / Respiration Sensitization:** Data not available.

**Ingestion Effects:** This product contains ethylene glycol. A lethal dose of ethylene glycol is approximately 100 mL.

**Skin Effects /Corrosion/Sensitization:** Data not available.

**Serious Eye Damage and Irritation Effects:** Data not available.

**Reproductive Toxicity:** Data not available.

**Germ Cell Mutagenicity:** Data not available.

**Teratogenicity:** Data not available.

**Carcinogenicity:**

NTP	No component of this product is listed as a known or probable carcinogenic
IARC	No component of this product is listed as a known or probable carcinogenic
OSHA	No component of this product is listed as a known or probable carcinogenic

**Short Term Exposure Specific Target Organ Toxicity (GHS):** Data not available.

**Long Term Exposure Specific Target Organ Toxicity (GHS):** Data not available.

**Aspiration Hazard:** Data not available.

**11.2 Potential Health Effects:****Eyes:**

- Acute: Contact of liquid with eyes may cause slight irritation which may result in conjunctivitis.
- Chronic: No chronic effects expected under normal laboratory use.

**Skin:**

- Acute: Brief contact with skin is non-irritating. Prolonged or frequent contact with skin may cause irritation, allergic reaction, and rash.
- Chronic: No chronic effects expected under normal laboratory use.

**Ingestion:**

- Acute: Ingestion is not likely to occur under normal conditions of use. Due to ethylene glycol ingestion may cause abdominal discomfort, vomiting, and/or diarrhea. Excessive exposure may cause severe kidney damage or failure, CNS effects, and cardiopulmonary effects (metabolic acidosis). The lethal dose for ethylene glycol in adults is about 100 mL (1/3 cup).
- Chronic: No chronic effects expected under normal laboratory use.

**Inhalation:**

- Acute: Data not available.
- Chronic: Data not available.

**11.3 Symptoms Related to Physical, Chemical, and Toxicological Characteristic:**

Data not available.

**11.4 RTECS Information:** Data not available.

## 12. Ecological Information

**12.1 Ecotoxicity:** Data not available.

**12.2 Persistence and Degradability:** Data not available.

**12.3 Bioaccumulative Potential:** Data not available.

**12.4 Mobility in Soil:** Data not available.

**12.5 Other Adverse Effects:** Data not available.

## 13. Disposal Considerations

**13.1 Product Waste Disposal:** Small quantities of hematoxylin can be drain disposed with approval from local waste water treatment authorities. Follow federal, state, and local disposal regulations if available.

**13.2 Contaminated Packaging:** Dispose of as unused product.

**13.3 RCRA P Series Waste:** None of the ingredients are listed.

**13.4 RCRA U Series Waste:** None of the ingredients listed.

## 14. Transport Information

**14.1 UN Number:** Non-hazardous substances.

**14.2 UN Proper Shipping Name:** Non-hazardous substances.

**14.3 Transport Hazard Class:** Non-hazardous substances.

**14.4 Packaging Group:** Not applicable.

**14.5 Marine Pollutant:** No.

**14.6 Special Precautions:** None known.

## 15. Regulatory Information

### **15.1 FEDERAL USA:**

**OSHA:** This product is considered hazardous under the Hazard Communication Standard and the Laboratory Standard; it is an irritant.

**TSCA:** All ingredients of this product are listed on the TSCA inventory.

**CERCLA:** Reportable quantity 5,000 pounds ethylene glycol, acetic acid, and aluminum sulfate.

### **SARA Title III:**

Extremely Hazardous Substance (section 355): Not listed.

Hazardous Categories (sections 311/312): **Acute:** Yes. **Chronic:** No.

Toxic Chemicals (section 313): ethylene glycol 1% de minimis concentration.

**RCRA:** Not listed.

**15.2 STATE:**

**California Prop 65:** No ingredients listed.

**Florida Toxic Substance List:** Ethylene glycol and acetic acid are listed.

**Pennsylvania Environmental Hazards Substance List:** Ethylene glycol and acetic acid are listed.

**16. Other Information:**

**16.1 NFPA Classification:**

Health: 2

Fire: 0

Reactivity: 0

**16.2 HMIS Classification:**

Health: 2

Fire: 0

Reactivity: 0

**16.3 Prepared By:** Scigen Regulatory Affairs

**16.4 Revision Date:** 29-May-2015

**16.5 Disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive, it is intended to be used as a guide. No warrant, expressed or implied, is made; Scigen Inc. assumes no legal responsibility or liability whatsoever resulting from its use.