Section I - Product Identification
A solution of ethylene glycol, aluminum sulfate and hematoxylin in water.

Section II - Hazards Identification
Overview: May be harmful if swallowed. May be irritating to skin, eyes and respiratory tract.

Safety Ratings
Health: Slight  Flammability: None  Reactivity: None  Contact: Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves
Storage: General storage
NFPA Ratings
Health = 1  Flammability = 0  Reactivity = 0

Potential Health Effects
The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to that of other alcohols or aluminum compounds.

Inhalation: Not likely to be a problem.
Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.
Skin contact: Not normally a problem but will stain skin.
Eye contact: May be irritating
Chronic Exposure: Unknown
Aggravation of preexisting conditions: Unknown

Section III - Composition/Information on Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>50 ppm Ceiling</td>
<td>50 ppm Ceiling</td>
<td>25% v/v</td>
<td></td>
</tr>
<tr>
<td>Aluminum sulfate</td>
<td>10043-01-3</td>
<td>2 mg/m3 (Al) TWA</td>
<td>2 mg/m3 (Al) TWA</td>
<td>3.5% w/v</td>
<td></td>
</tr>
<tr>
<td>Hematoxylin</td>
<td>517-28-2</td>
<td>———</td>
<td>———</td>
<td>———</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

Section IV - First Aid Measures
Inhalation: Not likely to happen.
Ingestion: If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.
Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops.
Eye Contact: Rinse thoroughly with running water. Get medical advice if irritation develops.
Section V - Fire Fighting Measures

*Flash point:* Not applicable.
*Fire:* Not normally a fire hazard.
*Explosion:* Not normally an explosion hazard.
*Fire Extinguishing Media:* Any means suitable for surrounding fire.
*Special information:* Pyrolysis will release corrosive oxides.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

Section VII - Handling and Storage

Store in a closed container, protected from freezing.

Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.
*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, “Industrial Ventilation, a Manual of Recommended Practices” for details about ventilation.
*Personal Respirator:* Usually not required.
*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.
*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

*Boiling Point:* 102°C  
*Density:* About 1.072 g/ml  
*Vapor pressure (mm Hg):* 18 @ 20°C  
*Evaporation Rate (water = 1):* 1  
*Vapor Density (air = 1):* 0.6  
*Solubility:* Infinitely miscible with water  
*Appearance and Odor:* A clear purple liquid.

Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.
*Hazardous Decomposition Products:* Nothing unusual.
*Hazardous polymerization:* Will not occur.
*Incompatibilities:* Nothing unusual.
*Conditions to avoid:* Excessive cold/heat and light.

Section XI - Toxicological Information

None relating to normal exposure.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>Aluminum sulfate</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>Hematoxylin</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
</tbody>
</table>

Section XII - Ecological Information

*Environmental Fate:* Biodegradable
*Environmental Toxicity:* None
Section XIII - Disposal Considerations
Generally not restricted but local governments may restrict the amounts of dyes that may be flushed down the drain. Insure compliance with all government regulation

Section XIV - Transportation information
Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Aluminum sulfate</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Hematoxylin</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Federal, State and International Regulations

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA 261.33</th>
<th>TSCA 8(D)</th>
<th>Ca. Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Aluminum sulfate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Hematoxylin</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No
SARA 311/312: Acute: Yes, Chronic: No, Fire: No

Section XVI - Other Information
This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.
Revision Date: Jan. 3, 2018