Section I - Product Identification
An aqueous solution of acetic acid, biebrich scarlet and acid fuchsin.

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

Safety Ratings
<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slight</td>
<td>None</td>
<td>None</td>
<td>Slight</td>
</tr>
</tbody>
</table>

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 other weak acids.

**Inhalation:** May be irritating

**Ingestion:** While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

**Skin contact:** Not normally a problem.

**Eye contact:** May be irritating.

Chronic Exposure: Unknown.
Aggravation of preexisting conditions: Unknown.

Section II - 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>Acetic acid</td>
<td>64-19-7</td>
<td>25 mg/m³ (TWA)</td>
<td>25 mg/m³ (TWA)</td>
<td></td>
<td>1% v/v</td>
</tr>
<tr>
<td>Biebrich scarlet</td>
<td>4196-99-0</td>
<td>------</td>
<td>------</td>
<td></td>
<td>1% w/v</td>
</tr>
<tr>
<td>Acid fuchsin</td>
<td>3244-88-0</td>
<td>------</td>
<td>------</td>
<td></td>
<td>0.1% w/v</td>
</tr>
</tbody>
</table>

Section IV - First Aid Measures

**Inhalation:** Remove from source of exposure and get medical attention for any breathing difficulty.

**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

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. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.
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: 100 °C
Density: About 1.0 g/ml
Vapor pressure (mm Hg): 18 @ 20 °C
Vapor Density (air = 1): 0.6
Evaporation Rate (water = 1): 1
Solubility: Infinitely miscible with water
Appearance and Odor: A clear colorless liquid with the odor of vinegar.

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>acetic acid</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>biebrich scarlet</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>acid fuchsin no</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

Usually not restricted. However, local governments have wide latitude to restrict the amounts of anything that may be flushed down the drain. Insure compliance with all government regulations.
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>Acetic acid</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Biebrich scarlet</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Acid fuchsin</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</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Biebrich scarlet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Acid fuchsin</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, Flammable: 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: Nov. 2, 2017