Section I - Product Identification
Auramine O, isopropanol, glycerine and phenol dissolved in water.

Section II - Hazards Identification
Warning: Causes skin irritation. Wash thoroughly after handling. Wear protective clothing, eye and face protection. If swallowed: rinse mouth and immediately contact a poison control center. Remove contaminated clothing and rinse skin with water. Store in a cool, well ventilated place. Dispose of contents and container in accord with all applicable regulations.

Safety Ratings
Health: Hazardous   Flammability: Flammable liquid and vapor   Reactivity: Slight   Contact: Hazardous
Recommended safety equipment: safety goggles, lab coat and proper gloves
Storage: Room Temperature away from sources of ignition.
NFPA Ratings
Health = 2   Flammability = 2   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 products containing aliphatic alcohols or phenol.
Inhalation: Alcohols and phenol are absorbed through the mucous membranes. Absorption can produce irritation as well as chemical burns.
Ingestion: Inhalation will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.
Skin contact: Alcohols and phenol are absorbed through the skin. Absorption will produce chemical burns as well as the same effects as ingestion.
Eye contact: Corrosive to the eye.
Chronic Exposure: Unknown
Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to alcohols and phenols. Preexisting eye, skin, and respiratory conditions may also be aggravated.

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>Auramine O</td>
<td>2465-27-2</td>
<td>————</td>
<td>————</td>
<td></td>
<td>0.1% w/v</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>5 ppm (TWA)</td>
<td>5 ppm (TWA)</td>
<td></td>
<td>3% w/v</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>400 ppm (TWA)</td>
<td>400 ppm (STEL)</td>
<td></td>
<td>13% v/v</td>
</tr>
<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>5 mg/m3 (TWA)</td>
<td>10 mg/m3 (mist)</td>
<td></td>
<td>12% v/v</td>
</tr>
</tbody>
</table>
Section IV - First Aid Measures

Inhalation: Remove from source of exposure and be prepared to assist breathing. Get medical attention immediately.

**Ingestion:** Do not give anything by mouth if patient is unconscious or extremely drowsy. Administer 0.5 -1 oz. of vegetable oil. Consult a poison control center on weather vomiting is advisable. Get immediate medical attention even if symptoms improve.

**Skin Contact:** In case of skin contact, remove contaminated clothing and flush with water. Treat affected area with polyethylene glycol and get immediate medical attention.

**Eye Contact:** In case of eye contact, flush with water for at least 15 minutes and get immediate medical attention.

Section V - Fire Fighting Measures

**Flash Point:** 203 °F (95 °C) TCC

**Flammable Limits:** LEL 2%  UEL 13%

**Fire:** Water is ineffective against alcohol fires but may be used to cool adjacent containers.

**Fire Extinguishing Media:** Alcohol foam, carbon dioxide or dry chemical.

**Special Information:** Pyrolysis will release toxic phenol and carbon monoxide.

Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

Section VII - Handling and Storage

Store in a closed container, away from open flames or other sources of ignition.

Section VIII - Exposure Control/Personal Protection

**Airborne Exposure Limits:** See section III.

**Ventilation System:** Local or general exhaust is recommended when handling phenolic or alcoholic solutions. 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 recommended as part of good laboratory practice.

**Eye Protection:** Laboratory safety goggles or similar products are required and recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

- **Boiling Point:** 212 °F  
- **Density:** 1.0 g/ml  
- **Vapor pressure (mm Hg):** unknown  
- **Evaporation Rate (water = 1):** 1  
- **Vapor Density (air = 1):** 3.2  
- **Solubility:** Infinitely miscible with water  
- **Appearance and Odor:** A yellow liquid with the characteristic odor of alcohol and phenol.

Section X - Stability and Reactivity

**Stability:** Normally stable. Freezes at low temperature.

**Hazardous Decomposition Products:** Nothing unusual.

**Hazardous polymerization:** Will not occur.

**Incompatibilities:** Oxidizers.

**Conditions to avoid:** heat, flame and sources of ignition.
Section XI - Toxicological Information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
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<tbody>
<tr>
<td>Auramine O</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>Phenol</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>3</td>
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<td>Glycerine</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
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<tr>
<td>Isopropanol</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>3</td>
</tr>
</tbody>
</table>

Section XII - Ecological Information

*Environmental Fate:* Unknown

*Environmental Toxicity:* Phenol is toxic to marine organisms

Isopropanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption.

Section XIII - Disposal Considerations

Incineration at a licensed chemical disposal facility is the preferred disposal method. Local governments may restrict the amounts of flammable liquids and/or phenol that may be flushed down the drain. Dispose of contents and container in accord with all applicable regulations.

Section XIV - Transportation Information

DOT Shipping name: Not regulated.

DOT Hazard Label: Not applicable.

Section XV - Regulatory Information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auramine O</td>
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<td>Yes</td>
</tr>
<tr>
<td>Phenol</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Glycerine</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>RQ</th>
<th>TPQ</th>
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<th>Category</th>
<th>261.33</th>
<th>8(D)</th>
<th>Ca. Prop 65</th>
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</thead>
<tbody>
<tr>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>Yes</td>
</tr>
<tr>
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<td>U188</td>
<td>No</td>
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<tr>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>No</td>
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<tr>
<td>Isopropanol</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

For auramine and isopropanol:

- Chemical Weapons Convention: No
- TSCA 12(b): No
- CDTA: Yes

For phenol and glycerine:

- Chemical Weapons Convention: No
- TSCA 12(b): No
- CDTA: 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