Section I - Product Identification
An aqueous solution of new methylene blue and potassium oxalate.

Section II - 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 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>New methylene blue</td>
<td>6586-05-6</td>
<td>---------</td>
<td>----------</td>
<td>0.5% w/v</td>
<td></td>
</tr>
<tr>
<td>Potassium oxalate</td>
<td>583-52-8</td>
<td>---------</td>
<td>----------</td>
<td>2% w/v</td>
<td></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

Flash point: Not applicable
Flammable Limits: Not applicable
Fire: Not normally a fire Hazard,
Explosion: Not Normally an explosion hazards.
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: 100 °C
Vapor pressure (mm Hg): 18 @ 20 °C
Vapor Density (air = 1): 0.6
Appearance and Odor: Purple, odorless solution.
Density: About 1.02 g/ml
Evaporation Rate (water = 1): 1
Solubility: Infinitely miscible with water

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>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>new methylene blue</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
<tr>
<td>potassium oxalate</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 but local regulations vary. 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>New methylene blue</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Potassium oxalate</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>
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</thead>
<tbody>
<tr>
<td></td>
<td>RQ</td>
<td>TPQ</td>
<td>List</td>
<td>Category</td>
</tr>
<tr>
<td>New methylene blue</td>
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<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Potassium oxalate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA 311/312: Acute: No, Chronic: No, Fire: No

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

Revision Date: Jan. 3, 2018

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.