Section I - Product Identification

An acidic solution of alcian blue 8GX and acetic acid in water.

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>Slightly hazardous</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 nuclear dyes.

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>Alcian blue 8GX</td>
<td>33864-99-2</td>
<td>———</td>
<td>———</td>
<td>0.1% w/v</td>
<td></td>
</tr>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>25 mg/m³ TWA</td>
<td>25 mg/m³ TWA</td>
<td>3% 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 (for ethanol)*: 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.


*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

*Vapor pressure (mm Hg)*: 18 @ 20 °C

*Vapor Density (air = 1)*: 0.6

*Appearance and Odor*: A dark purple solution.

*Density*: About 1.0 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.

Cancer lists (NTP listing)

<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>Alcian blue 8GX</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
</tbody>
</table>

SDS for Alcian Blue pH 2.5, page 2 of 3
Section XII - Ecological Information

Environmental Fate: Biodegradable.
Environmental Toxicity: None.

Section XIII - Disposal Considerations

Local governments often restrict the amounts of acids that may be flushed down drain. Dispose of contents and container in accordance 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>Alcian blue 8GX</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Acetic acid</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>Alcian blue 8GX</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Acetic acid</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: Yes

Section XVI - Other Information

This information is believed to be correct but is not waranteed as such, nor does it purport to be all inclusive.
Revision Date: Nov. 2, 2017