1. Identification

**Product Name:** Alcian Blue, pH 2.5

**Synonyms:** N/A

**Recommended Use:** Stains

**Restrictions on Use:** N/A

**Manufacturer/Supplier:**
Avantik Biogroup
32 Commerce Street
Springfield, NJ 07081
1-888-392-8411

**In Case of Emergency:**
Chemtrec US 1-800-424-9300
Chemtrec International 703-527-3887

2. Hazards Identification

**OSHA Hazard Classification(s):**
Skin Corrosion - Category 1C
Eye Damage - Category 1

**Signal Word:** Danger

**Hazard Statement(s):** Causes severe skin burns and eye damage. Causes serious eye damage.

**Pictogram(s):**

**Precautionary Statement(s):** Prevention: Do not breathe dusts or mists. Wash body thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection, face protection.

Response: If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. Specific treatment (see first aid section on this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulations.

**Descriptions of Hazards not otherwise classified:** N/A

**Percent of mixture with unknown acute toxicity:** N/A

3. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS #</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glacial Acetic Acid</td>
<td></td>
<td>84-19-7</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Alcian Blue 8Gx</td>
<td></td>
<td>33864-99-2</td>
<td>Trade Secret</td>
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<tr>
<td>Water</td>
<td></td>
<td>7732-18-5</td>
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</tr>
<tr>
<td>Preservative</td>
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<td>Trade Secret</td>
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</table>

4. First Aid Measures

**Eye Contact:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

**Inhalation:** Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.

**Ingestion:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.
Symptoms: Iritation eyes, nose, throat; headache, dizziness. May causes redness, pain and possible corneal damage.
Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell.

5. Fire-Fighting Measures
Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water.
Fire Hazards (Chemical): Not flammable.
Special Protective Equipment: Fire fighters should use self-contained breathing apparatus and protective clothing.
Precautions for Firefighters: Carbon monoxide and unidentified organic compounds may be formed during combustion.

6. Accidental Release Measures
Emergency Procedures: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.
Protective Equipment: See section 8
Environmental Precautions: Prevent release to the environment by using barriers.

7. Handling and Storage
Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product. Avoid prolonged or repeat skin contact. Do not get in eyes. Wash thoroughly after handling.
Storage: Store locked up. Store in cool, well-ventilated place. Keep lid closed.

8. Exposure Controls/Personal Protection
OSHA Permissible Exposure Limits (PELs):

<table>
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<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>OSHA PEL TWA</th>
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<tr>
<td>Glacial Acetic Acid</td>
<td>64-19-7</td>
<td>10ppm, 25 mg/m3</td>
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ACGIH Threshold Limit Values (TLVs):

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<th>ACGIH PEL TLV</th>
<th>ACGIH STEL</th>
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</thead>
<tbody>
<tr>
<td>Glacial Acetic Acid</td>
<td>64-19-7</td>
<td>10 ppm, 25 mg/m3</td>
<td>15 ppm, 37 mg/m3</td>
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</table>

Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.
Personal Protective Measures: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.
Special PPE Requirements: If ventilation hood not available wear respirator.

9. Physical and Chemical Properties Section
Appearance: Dark Blue, Liquid
Molecular Weight: N/A
Molecular Formula: N/A
pH: Acidic, approximately 2.5
Boiling Point and Boiling Range: 100°C
Melting Point/Freezing Point: N/A
Flash Point: N/A
Specific Gravity/Relative Density: N/A
Odor: Characteristic of vinegar
Odor Threshold: N/A
Alcian Blue, pH 2.5

**Color:** Dark Blue  
**Flammability (solid/gas):** N/A  
**Vapor Density:** N/A  
**Upper/Lower flammability or explosive limits:** N/A  
**Vapor Pressure:** N/A  
**Evaporation Rate:** N/A  
**Partition Coefficient: n-octanol/water:** N/A  
**Viscosity:** N/A  
**Auto-ignition temperature:** N/A  
**Solubility:** Miscible in water  
**Decomposition Temperature:** N/A

### 10. Stability and Reactivity

**Reactivity:**  
**Chemical Stability:** Stable  
**Conditions of Stability/Instability:** N/A  
**Stabilizers needed:** None  
**Safety issue indicated by appearance change:** N/A  
**Other:** N/A  
**Hazardous Reactions:** N/A  
**Hazardous Polymerization:** Does not occur  
**Conditions to avoid:** N/A  
**Classes of Incompatible Materials:** Oxidizers, Strong Acids, Strong Bases, soluble carbonates and phosphates, hydroxides, sulfur, acid anhydrides, peroxides, permanganates, amines and alcohols.  
**Hazardous Decomposition Products:** Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide) may be released in a fire. Corrosive vapors of ammonia and toxic oxides of nitrogen.

### 11. Toxicological Information

**Likely Routes of Exposure**  
**Eyes:** Corrosive to eyes, may cause permanent corneal damage, irritation with redness and pain.  
**Skin:** Corrosive to skin, may cause permanent damage.  
**Inhalation:** Dizziness, headache. May be harmful if inhaled.  
**Ingestion:** Nausea, may be harmful if ingested.  
**Signs or Symptoms of Exposure:** Nausea, dizziness.  
**Effects from short term exposure (delayed, immediate, chronic):** Irritation to the eyes, nose, throat; headache, dizziness, nausea.  
**Acute Toxicity (Numerical Measures):** LD50 (mammal, skin)=1060mg/kg; LD50 (rabbit, skin)=1060 mg/kg; LC50(inhalation, mouse)=5620 ppm/1H; LC50(inhalation, mouse)=5620 mg/m3/1H  
**Carcinogenicity (NTP, IARC, OSHA):** Not listed as a carcinogen.

### 12. Ecological Information

**Ecotoxicity:**  
**Persistence and degradability:**  
**Bioaccumulation Potential (octanol-water partition coefficient, BCF):**  
**Mobility in the soil:**  
**Adverse Environmental Effects:**

### 13. Disposal Considerations

**Recommended Disposal Containers:** Check with your local waste authorities*
Recommended Disposal Methods: Do not dispose of in drains, check with your local waste authorities.*
Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.*
Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*
Waste Stream: Consult your local or regional authorities.*

14. Transport Information
UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group Number:
Environmental Hazards (IMDG code):
  Marine Pollutant:
Transport in Bulk (IBC Code):
Special Transport Precautions:

15. Regulatory Information
OSHA:
DOT:
EPA:
CPSC:
16. Other Information

Revision Date: 12/10/2014

NFPA

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National Fire Protection Association (USA) NFPA

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NFPA Health Rating: 1
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HMIS

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Hazardous Material Information System (HMIS)

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