1. Identification

**Product Name:** Crystal Scarlet (MSB) Stain
**Synonyms:** Special Stain
**Recommended Use:** Laboratory Reagent
**Manufacturer/Supplier:** Avantik Biogroup
32 Commerce Street
Springfield, NJ 07081
1-888-392-8411

**Restrictions on Use:** Any use other than recommended.
**In Case of Emergency:**
Chemtrec US 1-800-424-9300
Chemtrec International 703-527-3887

2. Hazards Identification

**OSHA Hazard Classification(s):**
- Skin Irritation - Category 2
- Eye Irritation - Category 2B

**Signal Word:** Warning
**Hazard Statement(s):** Causes skin irritation. Causes eye irritation.

**Pictogram(s):**

- !

**Precautionary Statement(s):** Prevention: Wash body thoroughly after handling. Wear protective gloves.

Response: If on skin: Wash with plenty of water. Specific treatment (see first aid section on this label). If skin irritation or rash occurs: Get medical attention. Take off all contaminated clothing and wash it before reuse. 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 attention.

Storage: N/A

Disposal: N/A

**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>
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<tbody>
<tr>
<td>Water</td>
<td></td>
<td>7732-18-5</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Glacial Acetic Acid</td>
<td></td>
<td>64-19-7</td>
<td>Trade Secret</td>
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<tr>
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<td>2766-77-0</td>
<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:** Irritation eyes, nose, throat; headache, dizziness

**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:** Fire fighters should use self-contained breathing apparatus and protective clothing.

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.

**Containment and Clean-Up Procedures:** Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

7. Handling and Storage

**Handling:** Do not breathe vapors. Do not eat, drink or smoke when using this product.

**Storage:** Store in a well-ventilated, cool place. Keep lid tightly closed.

8. Exposure Controls/Personal Protection

**OSHA Permissible Exposure Limits (PELs):**

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>OSHA PEL TWA</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>
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**ACGIH Threshold Limit Values (TLVs):**

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<tr>
<th>Reagent</th>
<th>CAS #</th>
<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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</tbody>
</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:** Red/Brown, Liquid

**Molecular Weight:** N/A

**Molecular Formula:** N/A

**pH:** N/A

**Boiling Point and Boiling Range:** N/A

**Melting Point/Freezing Point:** N/A

**Flash Point:** N/A

**Specific Gravity/Relative Density:** N/A

**Odor:** Pungent, like vinegar

**Odor Threshold:** N/A

**Color:** Red/Brown

**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: Soluble in water.
Decomposition Temperature: N/A

**10. Stability and Reactivity**

**Reactivity:** Not reactive.
**Chemical Stability:** Stable
**Conditions of Stability/Instability:** Stable under normal conditions of temperature and pressure.
**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
**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.

**11. Toxicological Information**

**Likely Routes of Exposure**
- **Eyes:** Irritation. Slightly hazardous in case of eye contact.
- **Skin:** Irritation. Slightly hazardous in case of skin contact.
- **Inhalation:** Dizziness, headache.
- **Ingestion:** Nausea.

**Signs or Symptoms of Exposure:** Nausea.
**Effects from short term exposure (delayed, immediate, chronic):** Repeated or prolonged exposure is not known to aggravate medical conditions.
**Acute Toxicity (Numerical Measures):** Glacial Acetic Acid CAS 64-19-7: 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:** Acute Aquatic Effects Data for 100% Glacial Acetic Acid 96 h LC-50 (fathead minnow): > 100mg/L 48 h LC-50 (golden orfe): 410 mg/L 48 h LC-50 (mosquito fish): 251 mg/L 96 h LC-50 (daphnid): > 100 mg/L
**Persistence and degradability:** The product itself and its products of degradation are not toxic.
**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** This material is a strongly acidic aqueous solution, and this property may cause adverse environmental effects. Oxygen Demand Data for 100% Glacial Acetic Acid BOD-5: 340-880 mg/g BOD-20: 900 mg/g COD: 1,030 mg/g
**Mobility in the soil:** N/A
**Adverse Environmental Effects:** N/A

**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:** Not regulated.
- **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:** N/A
- **DOT:** N/A
- **EPA:** N/A
- **CPSC:** N/A
16. Other Information

Revision Date: 01/31/2017

NFPA

<table>
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National Fire Protection Association (USA) NFPA

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Specific Hazard

HMIS

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Hazardous Material Information System HMIS

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