1. Identification

Product Name: Sodium Bisulfite, 1%
Synonyms: N/A
Recommended Use: Special 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):
Germ Cell Mutagenicity - Category 2
Signal Word: Warning
Hazard Statement(s): Suspect of causing genetic defects.
Pictogram(s):

Precautionary Statement(s): Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection.
Response: If exposed or concerned: Get medical attention.
Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with local regulations.

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>Sodium Bisulfite</td>
<td></td>
<td>7831-90-5</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td>7732-18-5</td>
<td>Trade Secret</td>
</tr>
</tbody>
</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.
Sodium Bisulfite, 1%

Special Protective Equipment: Firefighters should use self-contained breathing apparatus and protective clothing.
Precautions for Firefighters: Firefighters 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.

7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product.
Storage: Store locked up. Store in a well-ventilated, cool place. Keep lid closed until ready to use.

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>N/A</td>
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ACGIH Threshold Limit Values (TLVs):

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>ACGIH PEL TLV</th>
<th>ACGIH STEL</th>
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</thead>
<tbody>
<tr>
<td>Sodium Bisulfite</td>
<td>7631-90-5</td>
<td>5 mg/m3</td>
<td></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: Colorless, Liquid
Molecular Weight: N/A
Molecular Formula: N/A
pH: 3.8-4.0
Boiling Point and Boiling Range: N/A
Melting Point/Freezing Point: N/A
Flash Point: N/A
Specific Gravity/Relative Density: N/A
Odor: N/A
Odor Threshold: N/A
Color: Colorless
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
**Sodium Bisulfite, 1%**

**Viscosity:** N/A  
**Auto-ignition temperature:** N/A  
**Solubility:** N/A  
**Decomposition Temperature:** N/A

### 10. Stability and Reactivity

- **Reactivity:** N/A  
- **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  
- **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.  
  - **Skin:** Irritation.  
  - **Inhalation:** Dizziness, headache.  
  - **Ingestion:** Nausea.  

- **Signs or Symptoms of Exposure:** Nausea.  
- **Effects from short term exposure (delayed, immediate, chronic):** Irritation to the eyes, nose, throat; headache, dizziness, nausea.  
- **Acute Toxicity (Numerical Measures):** Sodium Bisulfite: LD50(oral,rat)=2 gm/kg  
- **Carcinogenicity (NTP, IARC, OSHA):** N/A

### 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:** Not hazardous.  
- **UN Proper Shipping Name:**

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*Notes: *indicates information that should be cross-referenced with local regulations and guidelines.*
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

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<thead>
<tr>
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<tr>
<td>Health</td>
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<tr>
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<td>0</td>
</tr>
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