1. Identification

**Product Name:** Sodium Borate, 5%

**Synonyms:** N/A

**Recommended Use:** Special Stains

**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

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2. Hazards Identification

**OSHA Hazard Classification(s):**
Toxic to Reproduction - Category 2

**Signal Word:** Warning

**Hazard Statement(s):** Suspected of damaging fertility of the unborn child.

**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.

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

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

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3. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS #</th>
<th>Concentration %</th>
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<tbody>
<tr>
<td>Sodium Borate Decahydrate</td>
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<td>1303-96-4</td>
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<tr>
<td>Water</td>
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<td>7732-18-5</td>
<td>95</td>
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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.

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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.


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 tightly sealed until ready to use.

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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ACGIH Threshold Limit Values (TLVs):

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<th>ACGIH STEL</th>
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<tbody>
<tr>
<td>N/A</td>
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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: 9.2-9.6
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
**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, Zirconium, metallic salts

**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 eyes, skin, upper respiratory system; dermatitis; epistaxis (nosebleed); cough, dyspnea (breathing difficulty)

**Acute Toxicity (Numerical Measures):** Sodium Borate: LD50(oral, mouse)=2 gm/kg, LD50(oral, rat)=2660 mg/kg

**Carcinogenicity (NTP, IARC, OSHA):** N/A

**12. Ecological Information**

**Ecotoxicity:** Sodium Borate: Toxicity to fish: LC50-Carassius auratus (goldfish)-178 mg/l-72h Toxicity to daphnia and other aquatic invertebrates: EC50-Daphnia magna (water flea)-1085-1402mg/l-48h Toxicity to algae IC50-Desmodesmus subspicatus(green algae)-158mg/l-96h

**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.
Sodium Borate, 5%

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: 01/13/2015

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