

# Material Safety Data Sheet

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## Section 1: Chemical Product and Company Identification

Date Prepared: 03/05/2009  
Catalog Code: **BUFF5**  
Part Name: **Bangs Bead Storage Buffer, pH 7.4**  
Supplier: Bangs Laboratories, Inc. / A Division of Polysciences, Inc.  
9025 Technology Drive  
Fishers, Indiana 46038

## Section 2: Composition / Information on Ingredients

Solution containing protein, surfactant, and sodium azide.

## Section 3: Hazard Identification

The solution contains sodium azide. Sodium azide is known to be highly toxic.

Routes of Entry: Ingestion or skin absorption.  
Acute Effects: Contact with sodium azide may result in eye and skin irritation. Ingestion may result in nausea, headache, and vomiting.  
Chronic Effects: Sodium azide may cause cancer, or alter genetic material. Target organs include heart, nerves, and brain.

## Section 4: First Aid Measures

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least fifteen minutes. Physician should stain for evidence of corneal injury.  
Skin: In case of contact, immediately wash skin with copious amounts of water for at least fifteen minutes. Wash clothing before reuse. Treat as any contact dermatitis. If burn is present, treat as any thermal burn.  
Ingestion: Contact physician immediately.  
Inhalation: Remove to fresh air if effects occur. Consult medical personnel.  
Systemic: Human effects not established. No specific antidote. Treatment based on sound judgment of physician and the individual reactions of the patient.

## Section 5: Fire-Fighting Measures

Extinguishing Media: Water fog  
Special Firefighting Procedures: Not applicable  
Unusual Fire & Explosion Hazards: This solution is not flammable. Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, and silver.

## Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

*Wear vinyl gloves, soak up spill in paper toweling, and flush area with water. Put all generated waste into an approved container and dispose of as waste. Observe all applicable federal, state, and local disposal laws. Avoid unnecessary exposure and contact.*

## Section 7: Handling and Storage

Ventilation: Good room ventilation is adequate for most operations.  
Respiratory Protection: None normally needed.  
Storage: Store at 2-8°C. Material may develop bacteria odor on long-term storage. No safety problems known.

### **Section 8: Exposure Controls and Personal Protection**

Respiratory Protection: None normally needed.  
Wash/Hygienic Practices: Wash with soap and water when leaving work area and before eating, smoking, and using restroom facilities.

### **Section 9: Physical and Chemical Properties**

Vapor Pressure: no data  
Vapor Density: no data  
Boiling Point: 100°C/212°F  
Specific Gravity: no data  
Solubility: soluble  
Appearance & Odor: clear colorless liquid

### **Section 10: Stability and Reactivity**

Stability: Stable under normal conditions.  
Incompatibilities: None.  
Hazardous Combustion or Decomposition Products: Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, and silver.

### **Section 11: Toxicological Information**

This solution contains sodium azide. Sodium azide is known to be highly toxic.

Acute Effects: Contact with sodium azide may result in eye and skin irritation. Ingestion may result in nausea, headache, and vomiting.  
Chronic Effects: Sodium azide may cause cancer, or alter genetic material. Target organs include heart, nerves, and brain.

### **Section 12: Ecological Information**

no data

### **Section 13: Disposal Considerations**

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

### **Section 14: Transport Information**

no data

### **Section 15: Regulatory Information**

no data

### **Section 16: Other Information**

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**END OF MSDS**

