

**MATERIAL SAFETY DATA SHEET**

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**SECTION 1-Product Identification**

**Product Name: Buffer Solution pH 9.18**

**Synonyms:**

**Part Number: 9210014**

**SECTION 2-Composition/Information on Ingredients**

Ingredient(s)	CAS #	Percent	Hazardous
Water	7732-18-5	>98	no
Sodium borate	1303-96-4	<1.1	no

**SECTION 3-Hazards Identification**

Health Rating: 1  
Flammability Rating: 0  
Reactivity Rating: 0

Lab Protective Equip: gloves, safety goggles

**SECTION 4-First Aid Measures**

INHALATION: No known effects, remove to fresh air if necessary.  
INGESTION: Dilute with large amounts of water or milk Seek medical attention.  
SKIN CONTACT: Wash with soap and water for 15 minutes.  
EYE CONTACT: Flush with water for at least 15 minutes.

**SECTION 5-Fire Fighting Measures**

**Fire: Non-flammable**  
**Explosion: N/A**  
**Fire Extinguishing Media: Water, Carbon dioxide, dry chemical or foam.**  
**Special Information: N/A**

**SECTION 6-Accidental Release Measures**

Take up with absorbent materials. Place in small containers for disposal. Wash spill site after material pick up is complete.

**SECTION 7-Handling and Storage**

Always wear eye protection and gloves when working with this product. Avoid contact with eyes and skin. Avoid heat. Do not ingest. Store at room temperature. Keep away from heat and keep container closed.

## SECTION 8-Exposure Controls/Personal Protection

Airborne Exposure Limits: N/A

Ventilation System: Normal room ventilation is generally adequate.

Personal Respirators (NIOSH Approved): Safety glasses, lab coat.

Skin Protection: Gloves

Eye Protection: Use safety glasses or goggles.

## SECTION 9-Physical and Chemical Properties

Appearance: Clear, colorless liquid (although some pH buffers are dyed a color)

Odor: Odorless

Solubility: 100% Soluble

Specific Gravity: 1.01

pH: 9.18

Boiling Point: Approximately 100-101°C

Melting Point: N/A

Vapor Density (Air=1): N/A

Vapor Pressure (mm Hg): N/E

Evaporation Rate (BuAc=1): N/E

## SECTION 10-Stability and Reactivity

Stability: Stable

Hazardous Decomposition Products: May emit toxic fumes of Na<sub>2</sub>O when heated to decomposition.

Hazardous Polymerization: Will not occur

Incompatibilities: Acids, alkaloids, metallic salts

Conditions to Avoid: None

## SECTION 11-Toxicological Information:

Routes of absorption: Inhalation, skin, eyes, ingestion

Threshold limit value: N/E

Signs, symptoms and effects of exposure:

Acute: N/A

Chronic: N/A

Irritation Effects Data: None specified, possible sensitization from prolonged contact with raw material.

## SECTION 12-Ecological Information

Environmental Fate: N/A

Environmental Toxicity: N/A

## SECTION 13-Disposal Considerations

Material must be stored and disposed of in accordance with all local, state and federal laws.

## SECTION 14-Transport Information

Not regulated

**SECTION 15-Regulatory Information**

**EUROPEAN INFORMATION:**

**RISK PHRASES:** None

**SAFETY PHRASES:** S24/25 Avoid contact with skin and eyes.

**US/ CANADA INFORMATION**

**SARA/Title III:** Ingredients not listed.

**Cal. Proposition 65:** Ingredients not listed.

**US TSCA Inventory:** Ingredients are listed.

**CPR Class:** None.

**TDG Class:** None.

**MSDS** discloses elements required by the CPR.

**SECTION 16-Other Information**

N/A

**NFPA Ratings:** Health:1 Flammability:0 Reactivity:0

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