Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: PHA-7

Product Identity: Buffer Solution, pH 7.00

Chemical Family: Not Applicable
Synonyms: Not Applicable
Recommended Use: Laboratory chemicals

Issue Date: 04/02/09
Revision Date: 08/10/10

Section 2 – Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present significant health hazards. Wash areas of contact with water.

Appearance: Clear, yellowish liquid

Odor: Odorless

Target Organs: Eyes, skin

Potential Health Effects/ Routes of Exposure:

Eyes: May cause slight irritation.

Skin: May cause slight irritation.

Ingestion: May cause diarrhea, nausea, vomiting, and cramps.

Inhalation: Not likely to be a hazard.

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA)

Aggravated Medical Conditions: No information available

These chemicals are not considered hazardous by OSHA.
See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Sodium Phosphate, Dibasic, CAS# 7558-79-4, <3% w/v
Potassium Phosphate, Monobasic, CAS# 7778-77-0, <2% w/v
Water, purified, CAS# 7732-18-5, >95% w/v

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable
Autoignition Temperature: No information available.

Explosion Limits Upper: No data available
Lower: No data available

Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available
**Section 6 – Accidental Release Measures**

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** No information available.

**Methods for Containment and Clean Up** Absorb with suitable material. Always obey local regulations.

**Section 7 – Handling and Storage**

**Handling:** Wash hands after handling. Avoid contact with skin and eyes.

**Storage:** Protect from freezing and physical damage.

**Section 8 – Exposure Controls, Personal Protection**

Sodium Phosphate, Dibasic, CAS# 7558-79-4, ACGIH TLV: NA, OSHA PEL: NA  
Potassium Phosphate, Monobasic, CAS# 7778-77-0, ACGIH TLV: NA, OSHA PEL: NA  
Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.

**Personal Protection Equipment:**

- **Skin Protection:** Chemical resistant gloves.
- **Eye/Face Protection:** Safety Glasses or goggles.  
- **Respiratory Protection:** Normal ventilation is adequate

**Section 9 – Physical and Chemical Properties**

**Appearance/Physical State:** Clear, yellow liquid

**Odor:** Odorless  
**% Volatility:** No Information Available  
**Boiling Point:** Approx 100C  
**Melting Point:** Approx 0 C  
**Vapor Density:** No Information Available  
**Evaporation Rate:** No Information Available  
**pH:** 7.0  
**Flammability:** No Information Available  
**Solubility:** Infinite  
**Relative Density:** No Information Available  
**Molecular Weight:** Not available

**Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatible Materials** None identified.

**Conditions to Avoid:** No Information Available.

**Hazardous Decomposition Products:** Oxides of phosphorus.

**Hazardous Polymerization:** Does not occur

**Hazardous Reactions:** None under normal processing.

**Section 11 – Toxicological Information**

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

**LD50 orl-rat:** 17 g/kg (Sodium Phosphate, Dibasic)  
**LC50 inhalation-rat:** NA

**Irritation:** No Information Available

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure**

**Carcinogenicity:** No Information Available

**Sensitization** No information available.
Mutagenic Effects No information available.
Reproductive Effects No information available.
Developmental Effects (Immediate/Delayed) No information available.
Teratogenicity  No information available.
Other Adverse Effects No Information Available.
Endocrine Disruptor Information No information available.

Section 12 – Ecological Information

Ecotoxicity: Not Available.
Persistence and Degradability: No Information Available Mobility: No Information Available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.
Canada DSL: These chemicals are listed on Canada’s DSL list.
TSCA: The components of this solution are listed on the TSCA Inventory
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Sodium Phosphate, Dibasic – 5,000 lbs.
WHMIS: Not Applicable

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained form the products use.