

## USABlueBook

3781 Bur Wood Dr., Waukegan, IL 60085 (847-689-3000)  
Emergency Telephone No.: 800-535-5053

### Section 1 – Chemical Product and Company Identification

Catalog Number: 29722

Product Identity: Phosphate Buffer pH 7.2

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331

Emergency Contact Number (24hr): InfoTrac (800) 535-5053

### Section 2 – Composition, Information on Ingredients

Sodium Phosphate, Dibasic, CAS# 7558-79-4, 3.34% w/v, ACGIH TLV: NA, OSHA PEL: NA  
Potassium Phosphate, Monobasic, CAS# 7778-77-0, 2.18% w/v, ACGIH TLV: NA, OSHA PEL: NA  
Potassium Phosphate, Dibasic, CAS# 7758-11-4, 0.85%w/v, ACGIH TLV: NA, OSHA PEL: NA  
Ammonium Chloride, CAS# 12125-02-9, 0.17% w/v, ACGIH TLV: 10mg/m<sup>3</sup>, OSHA PEL: NA  
Water, purified, CAS# 7732-18-5, >93% w/v, ACGIH TLV: NA, OSHA PEL: NA

### Section 3 – Hazard Identification

**Emergency Overview:** Non-flammable, non-corrosive, non-toxic. May cause irritation. Wash areas of contact with water.

**Target Organs:** Eyes, skin.

Potential Health Effects

**Eyes:** May cause irritation, redness, pain, tearing

**Skin:** May cause slight irritation to those allergic to phosphates

**Ingestion:** Large doses may cause upset stomach

**Inhalation:** May cause allergic respiratory reaction to those allergic to phosphates

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

### 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:** Dilute with water or milk. Do not induce vomiting. Get medical assistance.

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

### Section 5 – Fire Fighting Measures

**Flash Point:** NA

**Extinguishing Media:** Use means suitable to extinguishing surrounding fire.

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

**Fire Fighting Instructions / Equipment:** Use normal procedures. Poisonous gases may be produced in fire. Use protective clothing. Use NIOSH-approved breathing equipment.

**NFPA Rating:** (estimated) Health: 1; Flammable: 0; Reactivity: 0

### Section 6 – Accidental Release Measures

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

**Engineering Controls:** Normal ventilation is adequate.

**Respiratory Controls:** Normal ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety Glasses or goggles.

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

**Appearance:** Clear, colorless liquid

**pH:** 7.2

**Boiling Point:** Approx 100C

**Melting Point:** Approx 0 C

**Odor:** Odorless

**Solubility in Water:** Infinite

**Specific Gravity:** Approx 1

**Vapor Pressure:** NA

### **Section 10 – Stability and Reactivity**

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

**Incompatibility:** None Identified.

**Hazardous Decomposition Products:** Oxides of Phosphorus

**Hazardous Polymerization:** Does not occur

### **Section 11 – Toxicological Information**

LD50 orl-rat: 1650 mg/kg (Ammonium Chloride)

LC50 inhalation-rat: NA

### **Section 12 – Ecological Information**

**Ecotoxicity:** NA

### **Section 13 – Disposal Considerations**

Dilute with water and flush to sewer.

**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.

**TSCA:** The components of this solution are listed on the TSCA Inventory

**SARA Title III Section 313:** Not Applicable

**RCRA Status:** NA

**CERCLA Reportable Quantity:** Sodium Phosphate, Dibasic – 5,000 lbs, Ammonium Chloride – 5000 lb

**WHMIS:** NA

### **Section 16 – Additional Information**

**Issue Date:** 2/28/07

**Revision Date:** 07/07/08, 11/19/09