

## -----MATERIAL SAFETY DATA SHEET-----

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### -----SUBSTANCE IDENTIFICATION-----

**SUBSTANCE:** ---pH 7.00 Calibrating Buffer---

Trade names/synonyms: This material is also known by various catalog numbers.

Cercla ratings (scale 0-3): health=0 fire=0 reactivity=0 persistence=0

Nfpa ratings (scale 0-4): health=0 fire=0 reactivity=0

SARA Title III (§ 313) Not Available.

### -----COMPONENTS AND CONTAMINANTS---

Component: potassium phosphate, monobasic CAS# 7778-77-0 percent: <1.0

Component: sodium phosphate, dibasic CAS# 7558-79-4 percent: <0.2

Component: water CAS# 7732-18-5 percent: >98.

Other contaminants: none

### Exposure limits:

No occupational exposure limits established by osha, acgih or niosh.

### -----PHYSICAL DATA-----

Description: clear, colorless liquid which may be color coded for user convenience according to pH.

Approx. boiling point: 212°F (100°C). Approx. melting point: 32°F (0°C)

Vapor pressure: 14 torr @20°C Evap. Rate: (ether=1) >1

pH: 7.0 Solubility in water: complete Vapor density: 0.7 (H<sub>2</sub>O)

### -----FIRE AND EXPLOSION DATA-----

Fire and explosion hazard: negligible fire hazard when exposed to heat or flame.

Flash point: not applicable

A media: dry chemical, carbon dioxide, water spray or regular foam. (1990 emergency response guidebook, dot p-5800.5) For larger fires, use water spray, fog or regular foam. (1990 emergency response guidebook, dot p-5800.5)

A: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. (1990 emergency response guidebook, dot p-5800.5 Pg. 31) Use agents suitable for the type of surrounding fire. Avoid breathing hazardous vapors, stay upwind of the fire.

### -----TOXICITY-----

potassium phosphate, monobasic; sodium phosphate, dibasic:

Carcinogen status: none.

Local effects: irritant - inhalation, skin, eye.

Acute toxicity level: no data available.

Target effects: no data available.

medical conditions agravated by exposure: no data available.

**-----HEALTH EFFECTS AND FIRST AID-----**

**INHALATION:**

SODIUM & POTASSIUM PHOSPHATE:IRRITANT.

**ACUTE EXPOSURE - MAY CAUSE IRRITATION.**

**CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE IRRITATION.**

**FIRST AID - REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.**

**SKIN CONTACT:**

SODIUM & POTASSIUM PHOSPHATE:IRRITANT.

**ACUTE EXPOSURE - MAY CAUSE IRRITATION.**

**CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS.**

**FIRST AID - REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY, WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.**

**EYE CONTACT:**

SODIUM & POTASSIUM PHOSPHATE:IRRITANT.

**ACUTE EXPOSURE-DIRECT CONTACT MAY CAUSE IRRITATION, REDNESS AND PAIN.**

**CRONIC EXPOSURE-REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUNCTIVITIS**

**FIRST AID - WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.**

**INGESTION**

SODIUM & POTASSIUM PHOSPHATE:IRRITANT.

**ACUTE EXPOSURE - MAY CAUSE NAUSEA, VOMITING AND DIARRHEA.**

**CRONIC EXPOSURE - NOT REPORTED TO OCCUR IN HUMANS**

**FIRST AID - IF VICTIM IS CONSCIOUS, IMMEDIATELY GIVE 2-4 GLASSES OF WATER, AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT, GET MEDICAL ATTENTION IMMEDIATELY.**

**-----REACTIVITY-----**

**Reactivity: stable under normal temperatures and pressures.**

**Incompatibilities: none known.**

**Decomposition: none known.**

**Polymerization: none known.**

**-----STORAGE AND DISPOSAL-----**

**Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the district director of the environmental protection agency.**

**Storage conditions to avoid: store away from incompatible substances.**

**Water spills: The California safe drinking water and toxic enforcement act of 1986 (prop 65) prohibits contaminating any known source of drinking water with substances known to cause cancer and/or reproductive toxicity.**

**Occupational spill: Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent materials and place into clean, dry containers for later disposal.**

**-----PROTECTIVE EQUIPMENT-----**

**When using, wear eye protection to prevent contact.**