

# **MATERIAL SAFETY DATA SHEET**

Pickering Laboratories, Inc • 1951 Colony St. Suite S, Mountain View CA 94043 • (650) 694-6700 • Fax (650) 968-0749

**PRODUCTS:** Eluent for Ion-exchange Chromatography of Glyphosate & AMPA  
**Cat. No.** K200

## **Section I – General**

**CAS #:**  $\text{KH}_2\text{PO}_4$  [7778-77-0];  $\text{H}_3\text{PO}_4$  [7664-38-2]  
**FORMULA:** See below  
**CHEMICAL NAME:** Potassium phosphate buffer, pH 2.00  
**SYNONYMS:** Not applicable  
**CHEMICAL FAMILY:** Aqueous salt solution

## **Section II – Hazardous Ingredients**

1: Not hazardous; contains < 0.2% (wt/v)  $\text{KH}_2\text{PO}_4$  and < 0.2% (wt/v)  $\text{H}_3\text{PO}_4$ .

## **Section III – Physical Data**

**MELTING POINT:** Not available  
**BOILING POINT:** 100°C (approximately)  
**VAPOR PRESSURE:** < 17 mm Hg @ 20°C  
**% VOLATILITY BY VOLUME:** 99+%  
**APPEARANCE:** Clear, odorless solution  
**SOLUBILITY:** Aqueous solution

## **Section IV – Toxicity Data**

**RTECS #:** Phosphoric acid: TB6300000; not available for potassium phosphate, monobasic  
**RTECS NAME:** Phosphoric acid  
**REVIEWS:** Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data are presented here. Refer to actual entry in RTECS for complete information.

## **Section V – Health Hazards and First Aid**

**ACUTE EFFECTS:** May cause minor skin irritation.  
**CHRONIC EFFECTS:** Not established  
**EYE CONTACT:** Flush with plenty of water for at least 15 minutes; assure adequate flushing by separating eyelids with fingers. Get medical attention.  
**SKIN CONTACT:** Wash with soap and water.  
**INHALATION:** Not applicable

INGESTION: Rinse mouth with water insuring rinse is not swallowed. Drink 2 glasses of water to dilute and induce vomiting by touching finger to back of victim's throat. Get medical attention.

#### **Section VI – Fire and Explosion Hazards**

FLASHPOINT: Not flammable  
EXTINGUISHING MEDIA: Water spray  
FIREFIGHTING PROCEDURE: Not applicable  
UNUSUAL HAZARDS: None  
EXPLOSIVE PROPERTIES: Not explosive

#### **Section VII – Reactivity**

GENERAL: Stable  
INCOMPATIBILITIES: Primary and secondary amines will cause non-hazardous contamination of this solution.  
HAZARDOUS COMBUSTION OR  
DECOMPOSITION PRODUCTS: Will not occur.

#### **Section VIII – Spill or Leak Procedures**

SPILL PROCEDURE: Wear eye protection and rubber / latex / vinyl gloves. Soak up spill with rags, paper towels, sponge; rinse away or discard. Clean spill-area thoroughly with soap and water.  
WASTE DISPOSAL: This solution may be sent to an EPA-approved waste disposal facility. Comply with all federal, state, and local regulations.

#### **Section IX – Precautions for Handling and Storage**

SAFETY EQUIPMENT: Chemical safety goggles, laboratory coat, rubber / latex / vinyl gloves, safety-shower with eye-wash.  
HANDLING PROCEDURES: Avoid eye and skin contact. Do not ingest. Wear safety glasses and gloves.  
STORAGE PROCEDURES: Store at room temperature.

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