## SECTION I NAME

**Product**
- Potassium Hydrogen Phthalate

**Chemical Synonyms**
- Potassium Biphthalate; Potassium Acid Phthalate

**Formula**
- $C_7H_5KO_4$

**Unit Size**
- up to 2.5 Kg.

**C.A.S. No.**
- 877-24-7

## SECTION II INGREDIENTS OF MIXTURES

<table>
<thead>
<tr>
<th>Principal Component(s)</th>
<th>%</th>
<th>TLV Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydrogen phthalate</td>
<td>100%</td>
<td>None established.</td>
</tr>
</tbody>
</table>

## SECTION III PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point (°F)</td>
<td>295°-300°C (563°-572°F) dec.</td>
</tr>
<tr>
<td>Boiling Point (°F)</td>
<td>Decomposes on heating.</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>Negligible as solid.</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>7.0</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble.</td>
</tr>
<tr>
<td>Appearance &amp; Odor</td>
<td>White crystals or crystalline powder; no odor.</td>
</tr>
</tbody>
</table>

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (Method Used)</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>Flammable Limits in Air</td>
<td>% by Volume</td>
</tr>
<tr>
<td>Extinguisher Media</td>
<td>Water spray; carbon dioxide; dry chemical; foam</td>
</tr>
</tbody>
</table>

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

## SECTION V HEALTH HAZARD DATA

### Threshold Limited Value

None established. (ACGIH 2001).

### Effects of Overexposure

- **Skin**: Irritant to skin - prolonged contact may cause irritation and/or dermatitis. Irritant to eyes - may cause irritation, redness and pain. Ingestion may cause nausea, vomiting, and diarrhea. Exercise appropriate procedures to minimize potential hazards. Target organs: Skin and eyes.

### Emergency and First Aid Procedures

#### INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### SKIN: Remove contaminated clothing. Wash thoroughly with mild soap and water. If irritation occurs, get medical attention.

### SECTION VI REACTIVITY DATA

- **Stability**
  - Unstable
- **Incompatibility**
  - Strong oxidants

### Hazardous Decomposition Products

Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide and potassium oxide.

### Hazardous Polymerization

None will occur.

### Conditions to Avoid

- Excessive temperature and heat.

### SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

- Ventilate area. Sweep up and place in a suitable container for incineration. Wash spill area with soap and water.

### Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. Dispose of in an approved incinerator or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

### Respiration Protection

None should be needed in normal laboratory handling. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved organic dust mask.

### Ventilation

- Local Exhaust: Recommended.
- Mechanical (General): Recommended.

### Protective Gloves

- Rubber if needed.

### Eye Protection

- Chemical safety glasses.

### Other Protective Equipment

- Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

### Precautions to be Taken in Handling & Storing

- Store in a cool, dry place away from strong oxidizing agents.
- Wash thoroughly after handling.

### Other Precautions

- Avoid contact with skin, eyes and mucous membranes. Avoid breathing dust. Remove and wash contaminated clothing.

**Revision No. 8**

**Date: 01/01/07**

**Approved by:** James A. Bertsch

Chemical Safety Coordinator

JAB

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