Section 1: Chemical Product and Company Identification

**Catalog Number:**
1505, 1507, B-265, B-268, B-269, B017600, SB017600

**Product Identity:**
BUFFER, REFERENCE STANDARDS, pH 5.0 - 5.6

**Manufacturer's Name:**
RICCA CHEMICAL COMPANY LLC

**Emergency Contact (24 hr) -- CHEMTREC®**
Domestic: 800-424-9300
International: 703-527-3887

**CAGE Code:** 0V553

**Address:**
448 West Fork Dr
Arlington, TX 76012

**Telephone Number For Information:**
817-461-5601

**Date Prepared:**
8/10/99

**Revision:** 5

Last Revised: 03/09/2007
Date Printed: 06/15/2007 4:54:44 pm

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Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Registry #</th>
<th>Concentration</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
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<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>&lt;1</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C 2 mg/m3</td>
<td>2 mg/m3</td>
</tr>
<tr>
<td>Water, Deionized</td>
<td>7732-18-5</td>
<td>Balance</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Not Available</td>
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</tr>
<tr>
<td>Potassium Acid Phthalate</td>
<td>877-24-7</td>
<td>0.9-1.1</td>
<td>Not Available</td>
<td>Not Available</td>
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<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td>Preservative (No Mercury compounds or</td>
<td>Proprietary</td>
<td>&lt;0.1</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Formaldehyde)</td>
<td></td>
<td></td>
<td>Not Available</td>
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</tr>
</tbody>
</table>

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Section 3: Hazard Identification

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

**Target Organs:** eyes, skin

**Eye Contact:** May cause slight irritation.

**Inhalation:** Not likely to be hazardous by inhalation.

**Skin Contact:** May cause slight irritation.

**Ingestion:** Large doses may cause nausea, vomiting, and diarrhea.

**Chronic Effects/Carcinogenicity:** None

**IARC - No.**
Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.
Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Section 5: Fire Fighting Measures

LFL: Not Available.  UFL: Not Available.
Extiguishing Media: Use any means suitable for extinguishing surrounding fire.
Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.
Fire Fighting Instructions: Use normal procedures/instructions.
Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations.

Section 7: Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.
Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.
Respiratory Protection: Normal room ventilation is adequate.
Skin Protection: Chemical resistant gloves.
Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid
Odor: Odorless
Solubility in Water: Infinite
Specific Gravity: Approximately 1

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatibility: Acids
Hazardous Decomposition Products: Oxides of Potassium and Sodium may form when heated to decomposition.
Hazardous Polymerization: Will not occur.

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NTP - No.
OSHA - No.

Reproductive Information: Not Applicable.
Teratological (Birth Defect) Information: Mutation data cited in ‘Registry of Toxic Effects of Chemical Substances’ for Sodium Hydroxide.
Section 11. Toxicological Information
LD₅₀, Oral, Rat (Potassium Acid Phthalate) > 3200 mg/kg, details of toxic effects not reported other than lethal dose value.

Section 12. Ecological Information
Ecotoxicological Information: No information found.
Chemical Fate Information: No information found.

Section 13. Disposal Considerations
Absorb with suitable material and treat as normal refuse. Liquid may be flushed to the drain after neutralization with dilute base solutions. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information
Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)
OSHA Status: The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.
TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.
Sara Title III:
  Section 302 Extremely Hazardous Substances: Not Applicable.
  Section 311/312 Hazardous Categories: No
  Section 313 Toxic Chemicals: Not Applicable.
California: None Reported.
Pennsylvania: Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List.
RCRA Status: Not Applicable.
CERCLA Reportable Quantity: Sodium Hydroxide - 1,000 pounds.

WHMIS: Not Applicable.

Section 16. Other Information
Section 11. Toxicological Information

LD50, Oral, Rat (Potassium Acid Phthalate) > 3200 mg/kg, details of toxic effects not reported other than lethal dose value.

Section 13. Disposal Considerations

Absorb with suitable material and treat as normal refuse. Liquid may be flushed to the drain after neutralization with dilute base solutions. Always dispose of in accordance with local, state and federal regulations.

Ecotoxicological Information:
No information found.

Chemical Fate Information:
No information found.
BUFFER, REFERENCE STANDARDS, pH 5.0 - 5.6

MSDS

NFPA Ratings:

- Health: 1
- Flammability: 0
- Reactivity: 0
- Special Notice Key: None

HMIS Ratings:

- Health: 1
- Flammability: 0
- Reactivity: 0
- Protective Equipment: B (Protective Eyewear, Gloves)

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.