Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

**Catalog Number:**
1501, 1502, B-260, B017540, R1501300, SB017540

**Product Identity:**
BUFFER, REFERENCE STD, pH 4.00; BUFFER, PRECISION REFERENCE STD, pH 4.000 (Color Coded Red)

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

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

**CAGE Code:** 4TCW6, 0V553, 4XZQ2

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

**Date Prepared:**
3/4/99

**Revision:** 5
Last Revised: 06/19/2008
Date Printed: 03/26/2010 8:40:39 am

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>
</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Red #40</td>
<td>25956-17-6</td>
<td>&lt;0.1</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Methanol (Methyl Alcohol)</td>
<td>67-56-1</td>
<td>&lt;0.6</td>
<td>200 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>262 mg/m3</td>
<td>260 mg/m3</td>
</tr>
<tr>
<td>Water, Deionized</td>
<td>7732-18-5</td>
<td>Balance</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Potassium Acid Phthalate</td>
<td>877-24-7</td>
<td>0.95 - 1.05</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Butylparaben</td>
<td>94-26-8</td>
<td>&lt;0.1</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Section 3: Hazard Identification

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

**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: May cause nausea, vomiting, diarrhea and cramps.

Chronic Effects/Carcinogenicity: None

IARC - No.
NTP - No.
OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Methanol (Methyl Alcohol).

Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Methanol (Methyl Alcohol).

Teratogenicity (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methanol (Methyl Alcohol).

Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methanol (Methyl Alcohol).

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. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available
LFL: Not Available
Extinguishing 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 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, red colored liquid
Odor: Odorless
Solubility in Water: Infinite
Specific Gravity: Approximately 1

pH: 4.0
Boiling Point(°C): Approximately 100
Melting Point(°C): Approximately 0
Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatibility: Nitric Acid
Hazardous Decomposition Products: Oxides of Carbon and Potassium.
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information
LD50, Oral, Rat: >3200 mg/kg (Potassium Acid Phthalate), details of toxic effects not reported other than lethal dose value.
LD50, Oral, Rat: (Methanol) 5628 mg/kg, details of toxic effects not reported other than lethal dose value.
LD50, Oral, Mouse: (Butylparaben) 13,200 mg/Kg.
LD50, Oral, Rat: (FD&C Red #40) >10,000 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
Dilute with water, neutralize with weak sodium hydroxide solution, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. 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: Methanol (Methyl Alcohol) is listed as an Environmental Hazard on the state's Hazardous Substances List. Methanol (Methyl Alcohol) is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: U154, U154

CERCLA Reportable Quantity: Methanol (Methyl Alcohol) - 5,000 pounds. Methanol (Methyl Alcohol) - 5,000 pounds.

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings:
Health: 1 Flammability: 0 Reactivity: 0 Special Notice Key: None

HMIS Ratings:
Health: 1 Flammibility: 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.