Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 12154-B-111, 500ML, 500-1299

Product Identity: BROCHOCRESOL, GREEN - METHYL RED AQUEOUS INDICATOR

Manufacturer's Name: RICCA CHEMICAL COMPANY LLC

Address: 448 West Fork Dr

Arlington, TX 76012

Date Prepared: 12/28/2006

Revision: 4

Last Revised: 06/16/2006

Data Printed: 09/26/2010 1:05:36 pm

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>Bromochresol Green, Sodium Salt</td>
<td>82625-32-3</td>
<td>0.05-0.11</td>
<td>Not Available</td>
<td>Not Available</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>Methyl Red, Sodium Salt</td>
<td>945-16-3</td>
<td>0.01-0.021</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 thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Health Hazard Class: General

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Rinse immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Skin Contact: Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

Section 5: Fire Fighting Measures

Flash Point: Not Available

Explosion Hazard: Not applicable

Fire Fighting Instructions: Use conventional fire-fighting measures.

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. Storing Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: Not required if proper work practices are used. Normal room ventilation is adequate.

Respiratory Protection: Not required.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, dark colored liquid.
Odor: Odorless.
Solubility in Water: Inert.
Specific Gravity: 1.0
pH: Not Available
Boiling Point: Approximately 160
Melting Point: 150
Vapor Pressure: Not available.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Acids, Hydrazines.

Hazardous Decomposition Products: None expected.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

No information bond on Methyl Red Sodium Salt or Bromochresol Green Sodium Salt in RICCA

Section 12: Ecological Information

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Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 123456

Product Identity: CAS# 123-45-6

Manufacturer's Name: RICCA CHEMICAL COMPANY LLC

Emergency Contact(24 hr) – CHEMTREC®
Domestic: 800-424-3300
International: 703-527-3817

CAGE Code: 41CG00, 0V553, 4X022

Address: 4450 Villa Fontaine, Arlington, TX 76012

Telephone Number For Information: 800-424-3300

Date Prepared: 01/01/2010

Revision: 7

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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>
</tr>
</thead>
<tbody>
<tr>
<td>Carcage</td>
<td>1234-56-7</td>
<td>0.01 - 1.0</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Water, Deionized</td>
<td>1234-56-7</td>
<td>Balance</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 sight health hazard. May cause irritation. Wash area of contact with water.

Target Organs: eye, skin

Eye Contact: May cause slight irritation

Skin Contact: May cause slight irritation

Ingestion: Large doses may cause stomach upset and nausea.

Chronic Effects/Carcinogenicity: None

Hazardous Information: Not Applicable

Teratology (Birth Defect) Information: Not Applicable

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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.

Skin Contact: Cleanse with soap and water for at least 15 minutes.

Ingestion: Give 100 ml of milk. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available

UL Fire Resistance: Not Available

Extinguishing Media: None

Special Fire Fighting Procedures: None

Fire Fighting Equipment: Use fire fighting equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Collect liquid and solids with water. Release to drain if local regulations allow. For larger spills, consult with suitable material (fire extinguisher, etc.) Collect all solids and send for disposal.

Section 7: Handling and Storage

As with all chemicals, wear gloves thoroughly after handling. Avoid contact with eyes and skin. Follow local and national regulations.

Safety Storage Code: General

Section 8: Exposure Controls/Personnel 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: Color, odor, stability:

Specific Gravity: Not applicable

Vapor Pressure: Not applicable

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: None identified

Hazardous Decomposition Products: None identified

Hazardous Polymerization: None identified

Section 11: Toxicological Information

No OSHA information available in "Regulatory Toxic Effects of Chemical Substances"

Section 12: Ecological Information

Ecotoxicological Information: No information found

Chemical Fate Information: No information found
Section 13. Disposal Considerations

Dilute with water, then flush to a local regulated sewer. 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 exemptions)

OSHA Section 1910.1200: The above data is a characteristically hazardous material or the potentially hazardous material in a product due to the concentration at which it is exposed to any immediate threat to health and safety. These data 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 inert, or producers (by上市) of chemicals listed on the TSCA Inventory.

Section 11: Emergency Response

Sara Title III:
Section 302 Fireaneous Hazards Substances: Not Applicable
Section 311/312 Hazardous Constituents: No
Section 313 Toxic Chemicals List Applicable

CERCLA: Not Applicable

Pennsylvania: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: None Reported

Section 16. Other Information

RTECS Ratings

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

IWWS Ratings

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

Rev 1: 09-24-2000 (Section 1) revised health rating to 1.
Rev 2: 12-09-2001 (Reformatted to electronic data format)
Rev 3: 11-11-2002 (Section 1) added Solvent Plus catalog number G23050
Rev 4: 08-29-2005 (Section 1) added Solvent Plus catalog number CX-106
Rev 5: 03-04-2006 (Section 1) added Solvent Plus catalog number C-110
Rev 6: 12-26-2009 (Section 1) revised and approved for distribution
Rev 7: 07-21-2013 (Section 1) added catalog number R195000

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