



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

BROMOCRESOL GREEN - METHYL RED AQUEOUS INDICATOR

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 1215, B-171, 8016299, 58016299	
Product Identity: BROMOCRESOL GREEN - METHYL RED AQUEOUS INDICATOR	
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	Telephone Number For Information: 817-461-5601
Date Prepared: 12/2/99	Revision: 4 Last Revised: 09/09/2008 Date Printed: 09/29/2010 1:05:29 pm

Section 2: Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Bromocresol Green, Sodium Salt	82625-32-5	0.09-0.11	Not Available	Not Available
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
Methyl Red, Sodium Salt	845-10-3	0.019-0.021	Not Available	Not Available

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: Large doses may cause stomach upset.

Chronic Effects/Carcinogenicity: None

IARC - No

MTP - No

OSHA - No

Reproductive Information: Not Applicable



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

BROMOCRESOL GREEN - METHYL RED AQUEOUS INDICATOR

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methyl Red, Sodium Salt. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methyl Red, Sodium Salt.

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: Wash areas of contact with soap and 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

Method Used: Not Available

LFL: Not Available

UFL: 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, dark colored liquid.

Odor: Odorless.

Solubility in Water: Infinite.

Specific Gravity: Approximately 1.

pH: Not Available.

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: Alkalies, Hydroxides.

Hazardous Decomposition Products: None expected.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

No information found on Methyl Red Sodium Salt or Bromocresol Green Sodium Salt in RTECS.

Section 12: Ecological Information



For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) – CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

BROMOCRESOL GREEN - METHYL RED AQUEOUS INDICATOR

Ecotoxicological Information: No information found
Chemical Fate Information: No information found.

Section 13. Disposal Considerations

Dispose with water and flush to the sewer if local regulations allow. If not allowed, containerize for proper disposal at 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: None Reported.

RCRA Status: Not Applicable

CERCLA Reportable Quantity: None Reported

WHMIS: Not Applicable

Section 16. Other Information

NFPA Ratings:

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

HMS Ratings:

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

Rev 1, 3-27-2000 (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300

Rev 2, 10-09-2001: Reformatted to electronic data format.

Rev 3, 11-11-2003 (Section 1) added Solutions Plus catalog number B016299

Rev 4, 09-09-2008 reviewed and approved.

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.



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) – CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

CALMAGITE INDICATORS, AQUEOUS



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) – CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

CALMAGITE INDICATORS, AQUEOUS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

18304

Catalog Number: 1825, 1826, 1828, 1830, C-118, C-119, C021500, CX-1068, R1830600, SC021500	
Product Identity: CALMAGITE INDICATORS, AQUEOUS	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) – CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 4TCW6, 0V553, 4XZ02	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 10/10/00	Revision: 7 Last Revised: 07/21/2010 Date Printed: 01/04/2011 7:08:30 am

Section 2: Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Calmagite	3147-14-6	0.01 - 1.0	Not Available	Not Available
			Not Available	Not Available
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available

Section 3: Hazard Identification

Emergency Overview: Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. May cause irritation. 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: Large doses may cause stomach upset and nausea.

Chronic Effects/Carcinogenicity: None

IARC - No

NTP - No

OSHA - No

Reproductive Information: Not Applicable

Teratology (Birth Defect) Information: Not Applicable

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: Wash areas of contact with soap and 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.

Method Used: Not Available.

LFL: Not Available.

UFL: 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

Collect liquid and dilute with water. Release to drain if local regulations allow. For larger spills, absorb with suitable material (vermiculite, clay, etc.). Collect the solid residue and save for disposal.

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: characteristic Calmagite odor.

Solubility in Water: Infinitesimal.

Specific Gravity: Approximately 1.

pH: Not Available.

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: None identified.

Hazardous Decomposition Products: None identified.

Hazardous Polymerization: VAI not occur.

Section 11: Toxicological Information

No LD50 information available in "Registry of Toxic Effects of Chemical Substances".

Section 12: Ecological Information

Ecotoxicological Information: No information found.

Chemical Fate Information: No information found.



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3587

CALMAGITE INDICATORS, AQUEOUS

Section 13. Disposal Considerations

Drain with water, 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: None Reported

RCRA Status: Not Applicable

CERCLA Reportable Quantity: None Reported

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings

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

HMIS Ratings:

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

Rev 1, 9-24-2001: (Section 16) revised health rating from 1.

Rev 2, 10-09-2001: Reformatted to electronic data format.

Rev 3, 11-11-2003 (Section 1) added Solutions Plus catalog number C021500

Rev 4, 09-29-2005 (Section 1) added Red Bird catalog number CX-1088, (Section 2) revised concentration of Calmagite from < 0.2%

Rev 5, 03-01-2006 (Section 1) added Red Bird catalog number C-118; (Section 2) revised concentration of Calmagite from 0.1 - 1.0%; (Section 9) revised odor from odorless.

Rev 6, 12-26-2009 reviewed and approved for distribution

Rev 7, 07-21-2010 (Section 1) added catalog number R1830600.



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3587

CALMAGITE INDICATORS, AQUEOUS

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.