



MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

1. Product Identification

Product Code: 2311

Product Description: Bromocresol Green-Methyl Red Indicator

Manufactured By: LaMotte Company
802 Washington Avenue
Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	64-17-5 Ethanol	54	1000ppm TWA (1900 mg/m ³)	1000 ppm TWA
Yes	67-56-1 Methanol	3	200ppm TWA (260 mg/m ³)	200 ppm TWA
Yes	76-60-8 Bromocresol Green	0.1	None Established	None Established
Yes	493-52-7 Methyl Red	<0.1	None Established	None Established
Yes	10102-17-7 Sodium Thiosulfate, 5- Hydrate	0.2	None Established	None Established
No	7732-18-5 Water	to 100%	None Established	None Established

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3. Hazards Overview

Primary Route Of Entry: Skin Ingestion Inhalation

Poison! Danger! Flammable liquid & vapor! Harmful if swallowed, inhaled, or absorbed through skin. Ingestion may be fatal or cause blindness. Inhalation can cause headache, nausea. Affects central nervous system. May cause irritation to eyes and skin.

HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 2 Flammability: 3 Reactivity: 1

Carcinogenicity: None:

Other Health Related Comments:

See Section 11, Toxicity

4. First Aid Measures

Eye Contact: Flush thoroughly with water for 15 minutes. Consult a physician.

Skin Contact: Flush with water. Wash skin with soap and water.

Ingestion: Do not induce vomiting. Call a physician immediately.

Inhalation: Remove to fresh air.

5. Fire Fighting Measures

Flash Point (Method Used): 22 deg C-closed cup **LEL:** 3.3% **UEL:** 19%

Extinguishing Media: Dry chemical, CO2, or water spray

Special Fire Fighting Procedures: N/A

Unusual Fire & Explosion Hazard: Vapors may travel to ignition source and flash back.

6. Accidental Release Measures

Ventilate area. Eliminate all sources of ignition. Absorb on paper or spill pads. Allow to evaporate on iron pan (or other non-combustible container) in fume hood.

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7. Handling & Storage

Store in cool, dry, place away from strong acids and oxidizers. Do not use near heat or flame. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: Use with adequate ventilation and avoid contact with skin. Wash after handling.

9. Physical & Chemical Properties

Appearance: Dark Blue-green Liquid

Solubility In Water: Soluble

Odor: Alcohol

pH: N/A

Vapor Density: 1.6 (Air=1)

Vapor Pressure: ca. 40 mm Hg @ 20 deg C

Boiling Point: <100 deg C

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat, sources of ignition

Incompatibility (Materials To Avoid): Contact with nitric acid or other strong oxidizers

Hazardous Decomposition Products: COx

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11. Toxicological Information

Oral human LDLo: 1400 mg/kg, ethanol; 143 mg/kg, methanol

Target Organs: Central Nervous System Skin

12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Small quantity: Flush down drain with excess water. Large quantity: Atomize into an incinerator. Dispose according to federal, state and local regulations.

14. Transportation Information

Proper Shipping Name:

DOT: ETHANOL

IATA: ETHANOL

Hazard Class/Div:

DOT: 3

IATA: 3

UN: 1170

Packing Group: II

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	64-17-5 Ethanol	Yes	Yes	Yes	No	Yes	Yes
Yes	67-56-1 Methyl Alcohol	Yes	Yes	Yes	No	Yes	Yes
Yes	76-60-8 Bromcresol Green (free acid)	Yes	Yes	Yes	No	Yes	No
Yes	493-52-7 Methyl Red	Yes	Yes	Yes	No	Yes	Yes
Yes	7772-98-7 Sodium Thiosulfate, anhydrous	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

Federal, State, & International Regulations

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
64-17-5 Ethanol	No	No	No	No	No	No	No
67-56-1 Methyl Alcohol	No	No	Yes	Toxic Pollutant	5000	U154	No
76-60-8 Bromcresol Green (free acid)	No	No	No	No	No	No	No
493-52-7 Methyl Red	No	No	No	No	No	No	No
7772-98-7 Sodium Thiosulfate, anhydrous	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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--- SARA 311/312 ---

Hazard Categories

----- Australia -----

**Hazchem
Code**

**Poison
Schedule**

**This MSDS Is
WHMIS Compliant**

Ingredient **Acute** **Chronic** **Fire** **Pressure** **Reactivity**

64-17-5 Ethanol	Yes	Yes	Yes	No	No	None Allocated	None Allocated	
67-56-1 Methyl Alcohol	Yes	Yes	Yes	No	No	2PE	S6	
76-60-8 Bromcresol Green (free acid)	Yes	No	No	No	No	None Allocated	None Allocated	
493-52-7 Methyl Red	No	No	No	No	No	None Allocated	None Allocated	
7772-98-7 Sodium Thiosulfate, anhydrous	Yes	No	No	No	No	None Allocated	None Allocated	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	

product 2311 as a whole Yes Yes Yes No No 2[S]E S5 Yes

16. Other Information

Keep out of reach of children.

Prepared By: Regulatory Affairs Department

Revised: 10/2/2008
