



Issuing Date 2/1/2013

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BROMCRESOL GREEN METHYL RED INDICATOR TABLETS

Product Code(s) T-2311

Synonyms none

Recommended Use Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.

Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency Telephone Number 24 Hour Emergency Number (CHEM-TEL):
USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Emergency Overview

Product dust may be irritating to eyes, skin and respiratory system
Large oral doses may cause gastrointestinal irritation

Appearance Blue green**Physical State** Tablet**Odor** None

OSHA Regulatory Status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Potential Health Effects**Acute Toxicity****Eyes**

May cause irritation.

Skin

May cause irritation.

Inhalation

May cause irritation of respiratory tract.

Ingestion

May cause irritation. May cause gastrointestinal discomfort if consumed in large amounts.

Chronic Effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Methyl red	493-52-7	<0.1
Bromcresol green	76-60-8	<0.2
Thiosulfate, sodium, pentahydrate	10102-17-7	0.4
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	1
Potassium chloride	7447-40-7	>98

4. FIRST AID MEASURES

General Advice	Show this safety data sheet to the doctor in attendance. Keep out of reach of children.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
Skin Contact	Wash off with soap and plenty of water removing all contaminated clothes and shoes. If irritation develops or persists, consult physician.
Inhalation	Move to fresh air.
Ingestion	Drink plenty of water. Consult a physician.
Protection of First-aiders	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not a fire hazard.			
Flash Point	Not applicable			
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or alcohol-resistant foam.			
Explosion Data				
NFPA	Health Hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 0	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes, and clothing.
Methods for Containment	Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal.
Methods for Cleaning Up	If local regulations permit, dissolve and rinse to drain with excess water. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Do not eat, drink, or smoke when using this product.
Storage	Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl red 493-52-7	None Known	None Known	None Known
Bromocresol green 76-60-8	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate 10102-17-7	None Known	None Known	None Known

2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2	None Known	None Known	None Known
Potassium chloride 7447-40-7	None Known	None Known	None Known

Engineering Measures

Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin and Body Protection

Protective gloves.

Respiratory Protection

None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Blue green

Odor

None

Physical State

Tablet

pH

6 (1 tablet in 10mL of water)

Flash Point

Not applicable

Boiling Point/Range

No information available

Vapor Pressure

No information available

Vapor Density

No information available

10. STABILITY AND REACTIVITY

Stability

Stable.

Incompatible Products

Strong oxidizing agents.

Conditions to Avoid

Moisture. Excessive heat.

Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions -. Carbon oxides (COx).
Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl red	None Known	None Known	None Known
Bromcresol green	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	5000 mg/kg (Rat)	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known
Potassium chloride	2600 mg/kg (Rat)	None Known	None Known

Chronic Toxicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl red	None Known	None Known	None Known	None Known
Bromcresol green	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known	None Known

Potassium chloride	None Known	None Known	None Known	None Known
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Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Methyl red	None Known	None Known	None Known
Bromcresol green	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known
Potassium chloride	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Methyl red	None Known	None Known	None Known	None Known
Bromcresol green	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	LC50= 24000 mg/L Gambusia affinis 96 h	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known	None Known
Potassium chloride	EC50 = 2500 mg/L 72 h	LC50= 2010 mg/L Lepomis macrochirus 96 h	None Known	EC50 = 825 mg/L 48 h
Chemical Name	Log Pow			
Methyl red	None Known			
Bromcresol green	None Known			
Thiosulfate, sodium, pentahydrate	None Known			
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known			
Potassium chloride	None Known			

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations. Dispose of contents/container in accordance with local regulation.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Methyl red - 493-52-7	None Known	None Known	None Known	None Known
Bromcresol green - 76-60-8	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate - 10102-17-7	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene - 65405-55-2	None Known	None Known	None Known	None Known
Potassium chloride - 7447-40-7	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Methyl red 493-52-7 (<0.1)	Present	X	X	5-243	X	KE-06693	X	X
Bromcresol green 76-60-8 (<0.2)	Present	X	X	ENCS	X	KE-02745	X	X
Thiosulfate, sodium, pentahydrate 10102-17-7 (0.4)	TSCA	X	EINECS/ELINCS	1-503	X	KECL	X	X
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2 (1)	XU	X	EINECS/ELINCS	6-902	X	KE-25266	X	X
Potassium chloride 7447-40-7 (>98)	Present	X	X	1-228	X	KE-29086	X	X

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl red	493-52-7	<0.1	None Known
Bromcresol green	76-60-8	<0.2	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	0.4	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	1	None Known
Potassium chloride	7447-40-7	>98	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl red 493-52-7 (<0.1)	None Known	None Known	None Known	None Known
Bromcresol green 76-60-8 (<0.2)	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate 10102-17-7 (0.4)	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2 (1)	None Known	None Known	None Known	None Known
Potassium chloride 7447-40-7 (>98)	None Known	None Known	None Known	None Known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl red	493-52-7	<0.1	None Known	None Known	None Known	None Known
Bromcresol green	76-60-8	<0.2	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	0.4	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	1	None Known	None Known	None Known	None Known
Potassium chloride	7447-40-7	>98	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methyl red	None Known	None Known
Bromcresol green	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known
Potassium chloride	None Known	None Known

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Methyl red	493-52-7	None Known
Bromcresol green	76-60-8	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	None Known
Potassium chloride	7447-40-7	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl red	None Known	None Known	None Known	None Known	None Known
Bromcresol green	None Known	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	X	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known	None Known	None Known
Potassium chloride	None Known	None Known	None Known	None Known	None Known

International Regulations**Mexico - Grade**

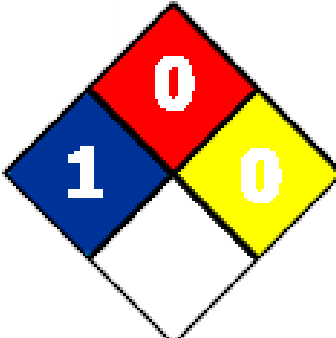

Chemical Name	Carcinogen Status	Exposure Limits
Methyl red	None Known	None Known
Bromcresol green	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known
Potassium chloride	None Known	None Known

Canada

Component	WHMIS Hazard Class
Methyl red 493-52-7 (<0.1)	Uncontrolled product according to WHMIS classification criteria
Bromcresol green 76-60-8 (<0.2)	Uncontrolled product according to WHMIS classification criteria
Thiosulfate, sodium, pentahydrate 10102-17-7 (0.4)	Uncontrolled product according to WHMIS classification criteria

2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2 (1)	Not determined
Potassium chloride 7447-40-7 (>98)	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

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Revision Note

Update to Format.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS