

Issuing Date 12/7/2011

Revision Number 0

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** BROMTHYMOL BLUE INDICATOR

**Product Code(s)** 2210

**Synonyms** none

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

**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**

May stain skin

The product contains no substances which at their given concentration are considered to be hazardous to health

**Appearance** Dark, Blue green**Physical State** Liquid**Odor** None

**OSHA Regulatory Status** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Health Effects**

**Principle Routes of Exposure** Skin contact

**Acute Toxicity****Eyes**

May cause slight irritation.

**Skin**

May stain skin. Substance may cause slight skin irritation.

**Inhalation**

Not an expected route of exposure.

**Ingestion**

May cause gastrointestinal discomfort if consumed in extremely large amounts.

**Chronic Effects****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Hydrochloric acid	7647-01-0	<0.005
Sodium hydroxide	1310-73-2	<0.005
Bromothymol blue	76-59-5	<0.05
Water	7732-18-5	to 100%

Sodium hydroxide and/or hydrochloric acid added for pH adjustment.

**4. FIRST AID MEASURES**

<b>General Advice</b>	Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
<b>Skin Contact</b>	Wash skin with soap and water. If irritation develops or persists, consult physician.
<b>Inhalation</b>	Not expected to require first aid measures.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. If gastrointestinal distress occurs contact physician.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment. 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

<b>Flammable Properties</b>	Not a fire hazard.			
<b>Flash Point</b>	Not applicable			
<b>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
<b>Explosion Data</b>				
<b>NFPA</b>	<b>Health Hazard 0</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 0</b>	<b>Flammability 0</b>	<b>Stability 0</b>	

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Refer to Section 8.
<b>Methods for Containment</b>	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose according to federal, state, and local regulations.
<b>Methods for Cleaning Up</b>	If local regulations permit, rinse liquid portion to drain and solid portion to landfill. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
<b>Storage</b>	Keep tightly closed in a dry and cool place. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	None Known	Ceiling 5 ppm (7mg/m <sup>3</sup> )	IDLH: 50 ppm Ceiling: 7 mg/m <sup>3</sup> Ceiling: 5 ppm
Sodium hydroxide 1310-73-2	None Known	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Bromothymol blue 76-59-5	None Known	None Known	None Known

Water 7732-18-5	None Known	None Known	None Known
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**Personal Protective Equipment****Eye/Face Protection**

Safety glasses with side-shields.

**Skin and Body Protection**

Protective gloves.

**Respiratory Protection**

None required under normal usage. Maintain adequate ventilation.

**Hygiene Measures**

Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark Blue green	<b>Odor</b>	None
<b>Physical State</b>	Liquid	<b>pH</b>	5
<b>Flash Point</b>	Not applicable	<b>Boiling Point/Range</b>	100°C/212°F

<b>Vapor Pressure</b>	Essentially the same as water	<b>Vapor Density</b>	Essentially the same as water
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## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.

**Incompatible Products** None known.

**Conditions to Avoid** None known based on information supplied.

**Hazardous Decomposition Products** None under normal use.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	700 mg/kg ( Rat )	5010 mg/kg ( Rabbit )	3124 ppm ( Rat ) 1 h
Sodium hydroxide	None Known	1350 mg/kg ( Rabbit )	None Known
Bromothymol blue	None Known	None Known	None Known
Water	90 mL/kg ( Rat )	None Known	None Known

**Chronic Toxicity****Carcinogenicity**

Contains no ingredient listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	None Known	None Known	None Known	None Known
Sodium hydroxide	None Known	None Known	None Known	None Known
Bromothymol blue	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Hydrochloric acid	None Known	None Known	None Known
Sodium hydroxide	None Known	None Known	None Known
Bromothymol blue	None Known	None Known	None Known
Water	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrochloric acid	None Known	LC50= 282 mg/L <i>Gambusia affinis</i> 96 h	None Known	None Known
Sodium hydroxide	None Known	LC50= 45.4 mg/L <i>Oncorhynchus mykiss</i> 96 h	None Known	None Known
Bromothymol blue	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

**Persistence and Degradability** No information available.

**Bioaccumulation/Accumulation** No information available.

Chemical Name	Log Pow
Hydrochloric acid	None Known
Sodium hydroxide	None Known
Bromothymol blue	None Known
Water	None Known

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Method

Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Hydrochloric acid - 7647-01-0	None Known	None Known	None Known	None Known
Sodium hydroxide - 1310-73-2	None Known	None Known	None Known	None Known
Bromothymol blue - 76-59-5	None Known	None Known	None Known	None Known
Water - 7732-18-5	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
Hydrochloric acid 7647-01-0 ( <0.005 )	T	X	X	X	X	KE-20189 X	X	X
Sodium hydroxide 1310-73-2 ( <0.005 )	Present	X	X	1-410; 2-1972	X	KE-31487	X	X
Bromothymol blue 76-59-5 ( <0.05 )	Present	X	X	ENCS	X	KE-02744	X	X
Water 7732-18-5 ( to 100% )	Present	X	X	ENCS	X	KE-35400	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 %
Hydrochloric acid	7647-01-0	<0.005	1.0
Sodium hydroxide	1310-73-2	<0.005	None Known
Bromothymol blue	76-59-5	<0.05	None Known
Water	7732-18-5	to 100%	None Known

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0 ( <0.005 )	5000 lb	None Known	None Known	X
Sodium hydroxide 1310-73-2 ( <0.005 )	None Known	None Known	None Known	None Known
Bromothymol blue 76-59-5 ( <0.05 )	None Known	None Known	None Known	None Known
Water 7732-18-5 ( to 100% )	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 substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hydrochloric acid	7647-01-0	<0.005	Present	None Known	None Known	None Known
Sodium hydroxide	1310-73-2	<0.005	None Known	None Known	None Known	None Known
Bromothymol blue	76-59-5	<0.05	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrochloric acid	5000 lb	5000 lb
Sodium hydroxide	1000 lb	None Known
Bromothymol blue	None Known	None Known
Water	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
Hydrochloric acid	7647-01-0	None Known
Sodium hydroxide	1310-73-2	None Known
Bromothymol blue	76-59-5	None Known
Water	7732-18-5	None Known

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric acid	X	X	X	X	X
Sodium hydroxide	X	X	X	None Known	X
Bromothymol blue	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known

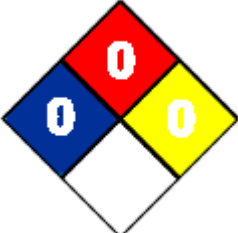

**International Regulations****Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
Hydrochloric acid	None Known	None Known
Sodium hydroxide	None Known	None Known
Bromothymol blue	None Known	None Known
Water	None Known	None Known

**Canada**

Component	WHMIS Hazard Class
Hydrochloric acid 7647-01-0 ( <0.005 )	1 % A D1A E D1B E D1A E
Sodium hydroxide 1310-73-2 ( <0.005 )	1 % E
Bromothymol blue 76-59-5 ( <0.05 )	Uncontrolled product according to WHMIS classification criteria
Water 7732-18-5 ( to 100% )	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

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

Prepared By Regulatory Affairs Department

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Revision Note  
Initial Release

**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**