

Issuing Date 3/8/2012

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name TOTAL ALKALINITY INDICATOR
Product Code(s) 2797
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
CAUTION!
Emergency Overview

May cause skin, eye, and respiratory tract irritation

May be harmful if swallowed

Appearance Dark blue

Physical State Liquid

Odor None

Potential Health Effects
Principle Routes of Exposure Skin and eye contact

Acute Toxicity
Eyes

May cause slight 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.
 May be harmful if swallowed.

Chronic Effects

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	845-10-3	<0.05
Hydrochloric acid	7647-01-0	<0.05
Sodium hydroxide	1310-73-2	<0.1
Bromcresol green	76-60-8	0.1
Thiosulfate, sodium, pentahydrate	10102-17-7	0.8
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing.
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 immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Not expected to require first aid measures.
Ingestion	Drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. 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

Flash Point	Not applicable			
Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.			
Explosion Data				
NFPA	Health Hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8.
Methods for Containment	Dispose according to local regulations, if permitted dissolve in water and rinse to drain.
Methods for Cleaning Up	After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	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.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat and incompatibles. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt 845-10-3	None Known	None Known	None Known

Hydrochloric acid 7647-01-0	None Known	Ceiling 5 ppm (7mg/m ³)	IDLH: 50 ppm Ceiling: 7 mg/m ³ Ceiling: 5 ppm
Sodium hydroxide 1310-73-2	None Known	TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Bromocresol green 76-60-8	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate 10102-17-7	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

Engineering Measures

Eyewash stations. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin and Body Protection

Wear protective gloves/clothing.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark blue	Odor	None
Physical State	Liquid	pH	8
Flash Point	Not applicable	Boiling Point/Range	ca. 100°C/212°F

Vapor Pressure	<17 mmHg @ 20°C	Vapor Density	<1(Air = 1)
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10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Incompatible Products Strong acids.

Conditions to Avoid Excessive heat. Incompatible products.

Hazardous Decomposition Products Hazardous decomposition products formed under fire conditions - . Sulfur oxides (SOx).

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known	None Known	None Known
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
Bromocresol green	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	5000 mg/kg (Rat)	None Known	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity**Chronic Toxicity** None known.**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known	None Known	None Known	None Known
Hydrochloric acid	None Known	None Known	None Known	None Known
Sodium hydroxide	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
Water	None Known	None Known	None Known	None Known

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known	None Known	None Known
Hydrochloric acid	None Known	None Known	None Known
Sodium hydroxide	None Known	None Known	None Known
Bromcresol green	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	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)
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known	None Known	None Known	None Known
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
Bromcresol green	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	LC50= 24000 mg/L <i>Gambusia affinis</i> 96 h	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known
Hydrochloric acid	None Known
Sodium hydroxide	None Known
Bromcresol green	None Known
Thiosulfate, sodium, pentahydrate	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations. Dispose according to federal, state, and local regulations. If permitted, dissolve in large volume of water and rinse to drain with excess water.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt - 845-10-3	None Known	None Known	None Known	None Known
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
Bromocresol 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
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
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt 845-10-3 (<0.05)	Present	X	X	ENCS	X	KE-11175	X	X
Hydrochloric acid 7647-01-0 (<0.05)	T	X	X	X	X	KE-20189 X	X	X
Sodium hydroxide 1310-73-2 (<0.1)	Present	X	X	1-410; 2-1972	X	KE-31487	X	X
Bromocresol green 76-60-8 (0.1)	Present	X	X	ENCS	X	KE-02745	X	X
Thiosulfate, sodium, pentahydrate 10102-17-7 (0.8)	TSCA	X	EINECS/ELINCS	1-503	X	KECL	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 contains a chemical or 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 %
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	845-10-3	<0.05	None Known
Hydrochloric acid	7647-01-0	<0.05	1.0
Sodium hydroxide	1310-73-2	<0.1	None Known
Bromocresol green	76-60-8	0.1	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	0.8	None Known
Water	7732-18-5	to 100%	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

This product contains the following substances which are regulated 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
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt 845-10-3 (<0.05)	None Known	None Known	None Known	None Known
Hydrochloric acid 7647-01-0 (<0.05)	5000 lb	None Known	None Known	X
Sodium hydroxide 1310-73-2 (<0.1)	None Known	None Known	None Known	None Known
Bromocresol green 76-60-8 (0.1)	None Known	None Known	None Known	None Known

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Thiosulfate, sodium, pentahydrate 10102-17-7 (0.8)	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)

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	845-10-3	<0.05	None Known	None Known	None Known	None Known
Hydrochloric acid	7647-01-0	<0.05	Present	None Known	None Known	None Known
Sodium hydroxide	1310-73-2	<0.1	None Known	None Known	None Known	None Known
Bromocresol green	76-60-8	0.1	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	0.8	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
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known	None Known
Hydrochloric acid	5000 lb	5000 lb
Sodium hydroxide	1000 lb	None Known
Bromocresol green	None Known	None Known
Thiosulfate, sodium, pentahydrate	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
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	845-10-3	None Known
Hydrochloric acid	7647-01-0	None Known
Sodium hydroxide	1310-73-2	None Known
Bromocresol green	76-60-8	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	None Known
Water	7732-18-5	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known	None Known	None Known	None Known	None Known
Hydrochloric acid	X	X	X	X	X
Sodium hydroxide	X	X	X	None Known	X
Bromocresol green	None Known	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	X	None Known	None Known	None Known

Water	None Known	None Known	None Known	None Known	None Known
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International Regulations

Mexico - Grade

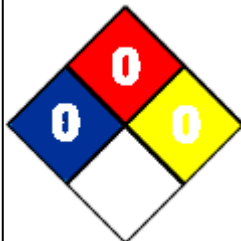

Chemical Name	Carcinogen Status	Exposure Limits
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt	None Known	None Known
Hydrochloric acid	None Known	None Known
Sodium hydroxide	None Known	None Known
Bromcresol green	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	None Known
Water	None Known	None Known

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Component	WHMIS Hazard Class
Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]-, sodium salt 845-10-3 (<0.05)	Not determined
Hydrochloric acid 7647-01-0 (<0.05)	1 % A D1A E D1B E D1A E
Sodium hydroxide 1310-73-2 (<0.1)	1 % E
Bromcresol green 76-60-8 (0.1)	Uncontrolled product according to WHMIS classification criteria
Thiosulfate, sodium, pentahydrate 10102-17-7 (0.8)	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 style="text-align: center;">1</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
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