



Issuing Date 5/2/2012

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Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ALKALINE WIDE RANGE INDICATOR
Product Code(s) 2303
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

DANGER!

Emergency Overview

Flammable liquid and vapor
Harmful by inhalation, in contact with skin and if swallowed
May be fatal or cause blindness if swallowed
Affects central nervous system
May cause skin, eye, and respiratory tract irritation

Appearance Clear, Red-Orange

Physical State Liquid

Odor Alcohol

Potential Health Effects

Principle Routes of Exposure Skin contact, Ingestion, and, Inhalation.

Acute Toxicity

Eyes

May cause irritation.

Skin

Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation

May cause irritation of respiratory tract. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Ingestion

May cause drowsiness and dizziness. May be fatal or cause blindness if swallowed. May cause central nervous system depression.

Chronic Effects

Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage Prolonged skin contact may cause skin irritation and/or dermatitis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	1718-34-9	<0.05
Phenolphthalein	77-09-8	<0.05
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	584-42-9	<0.1
Methyl alcohol	67-56-1	2
Ethyl alcohol	64-17-5	45
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing. Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.
Ingestion	Do not induce vomiting without medical advice. Call a physician immediately. Never give anything by mouth to an unconscious person.
Protection of First-aiders	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

Flammable Properties	Flammable.			
Flash Point	16°C (60.8°F) CC for SDA (3A) Ethyl Alcohol			
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or alcohol-resistant foam.			
Explosion Data				
Specific Hazards Arising from the Chemical	Vapors may travel to source of ignition and flash back.			
NFPA	Health Hazard 1	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2	Flammability 3	Stability 1	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8. Ensure adequate ventilation. Remove all sources of ignition.
Methods for Containment	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.
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 sources of ignition. Separate from acids. Keep away from oxidizing agents. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt 1718-34-9	None Known	None Known	None Known
Phenolphthalein 77-09-8	None Known	None Known	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt 584-42-9	None Known	None Known	None Known
Methyl alcohol 67-56-1	250	TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³
Ethyl alcohol 64-17-5	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Water 7732-18-5	None Known	None Known	None Known

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and Body Protection

Nitrile rubber. Gloves & Lab Coat.

Respiratory Protection

Use only with adequate ventilation. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene Measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Red-Orange	Odor	Alcohol
Physical State	Liquid	pH	Not applicable
Flash Point	16°C (60.8°F) CC for SDA (3A) Ethyl Alcohol	Boiling Point/Range	78.5°C (173.3°F) for SDA (3A) Ethyl Alcohol
Explosion Limits			
Upper	19% Ethanol		
Lower	3.3% Ethanol		
Vapor Pressure	48 mmHg @ 20 °C for SDA (3A) Ethyl Alcohol	Vapor Density	1.6 @ 20°C (Air=1) for SDA (3A) Ethyl Alcohol

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Incompatible Products Strong oxidizing agents. Acids. Alkali metals.

Conditions to Avoid Heat, flames and sparks.

Hazardous Decomposition Products Carbon oxides (COx).

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known
Phenolphthalein	None Known	None Known	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Ethyl alcohol	1501 mg/kg (Rat)	None Known	124.7 mg/L (Rat) 4 h
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity

Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Prolonged skin contact may cause skin irritation and/or dermatitis.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known
Phenolphthalein	None Known	Group 2B	Reasonably Anticipated	X
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known
Methyl alcohol	None Known	None Known	None Known	None Known
Ethyl alcohol	None Known	None Known	Known	None Known
Water	None Known	None Known	None Known	None Known

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known
Phenolphthalein	Group III Chemical	None Known	None Known

Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known
Methyl alcohol	None Known	None Known	None Known
Ethyl alcohol	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-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known
Phenolphthalein	None Known	None Known	None Known	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known
Methyl alcohol	None Known	LC50 13500 - 17600 mg/L Lepomis macrochirus 96 h LC50 18 - 20 mL/L Oncorhynchus mykiss 96 h LC50 19500 - 20700 mg/L Oncorhynchus mykiss 96 h LC50= 28200 mg/L Pimephales promelas 96 h LC50> 100 mg/L Pimephales promelas 96 h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	None Known
Ethyl alcohol	None Known	LC50= 12900 mg/L Oncorhynchus mykiss 96 h LC50= 14.2 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h
Water	None Known	None Known	None Known	None Known

Persistence and Degradability

Ethanol: When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material may evaporate to a moderate extent. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by dry and wet deposition. When released into the air, this material is expected to have a half-life between 1 and 10 days.

Chemical Name	Log Pow
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known
Phenolphthalein	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known
Methyl alcohol	= -0.77
Ethyl alcohol	= -0.32
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt - 1718-34-9	None Known	None Known	None Known	None Known
Phenolphthalein - 77-09-8	None Known	None Known	None Known	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt - 584-42-9	None Known	None Known	None Known	None Known
Methyl alcohol - 67-56-1	None Known	None Known	None Known	None Known
Ethyl alcohol - 64-17-5	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

Chemical Name	California Hazardous Waste Status
Ethyl alcohol	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name ETHANOL SOLUTION (Ethyl Alcohol Solution)
Hazard Class 3
UN-No 1170
Packing Group II

IATA

UN-No 1170
Proper Shipping Name ETHANOL SOLUTION (Ethyl Alcohol Solution)
Hazard Class 3
Packing Group II

IMDG/IMO

Proper Shipping Name ETHANOL SOLUTION (Ethyl Alcohol Solution)
Hazard Class 3
UN-No 1170
Packing Group II

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt 1718-34-9 (<0.05)	Present	X	X	5-2052; 5-2054	IECSC	KECL	PICCS	AICS
Phenolphthalein 77-09-8 (<0.05)	Present	X	X	9-1152	X	KE-03234	X	X
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt 584-42-9 (<0.1)	Present	X	X	5-2044	X	KE-20729	X	X
Methyl alcohol 67-56-1 (2)	Present	X	X	(2)-201	X	KECL	X	X

Ethyl alcohol 64-17-5 (45)	Present	X	X	2-202	X	KE-13217	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-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	1718-34-9	<0.05	None Known
Phenolphthalein	77-09-8	<0.05	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	584-42-9	<0.1	None Known
Methyl alcohol	67-56-1	2	1.0
Ethyl alcohol	64-17-5	45	None Known
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	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
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt 1718-34-9 (<0.05)	None Known	None Known	None Known	None Known
Phenolphthalein 77-09-8 (<0.05)	None Known	None Known	None Known	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt 584-42-9 (<0.1)	None Known	None Known	None Known	None Known
Methyl alcohol 67-56-1 (2)	None Known	None Known	None Known	None Known
Ethyl alcohol 64-17-5 (45)	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 contains the following HAPs: .

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	1718-34-9	<0.05	None Known	None Known	None Known	None Known
Phenolphthalein	77-09-8	<0.05	None Known	Group III	None Known	None Known

Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	584-42-9	<0.1	None Known	None Known	None Known	None Known
Methyl alcohol	67-56-1	2	Present	Group IV	None Known	None Known
Ethyl alcohol	64-17-5	45	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-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known	None Known
Phenolphthalein	None Known	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known	None Known
Methyl alcohol	5000 lb	None Known
Ethyl alcohol	None Known	None Known
Water	None Known	None Known

U.S. State Regulations

California Proposition 65

WARNING! This product contains chemicals know to the State of California to cause cancer and birth defects or other reproductive harm Ethyl alcohol is only considered a Proposition 65 cancer hazard and developmental hazard when it is ingested as an alcoholic beverage

Chemical Name	CAS-No	California Prop. 65
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	1718-34-9	None Known
Phenolphthalein	77-09-8	Carcinogen
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	584-42-9	None Known
Methyl alcohol	67-56-1	Developmental
Ethyl alcohol	64-17-5	Carcinogen
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-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known	None Known
Phenolphthalein	None Known	None Known	None Known	None Known	None Known
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known	None Known
Methyl alcohol	X	X	X	X	X
Ethyl alcohol	X	X	X	None Known	X
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Benzoic acid, 2-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt	None Known	None Known
Phenolphthalein	None Known	None Known

Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt	None Known	None Known
Methyl alcohol	None Known	Mexico: TWA 200 ppm Mexico: TWA 260 mg/m ³
Ethyl alcohol	None Known	Mexico: TWA= 1000 ppm Mexico: TWA= 1900 mg/m ³
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-hydroxy-5-[(4-nitrophenyl)azo]-, monosodium salt 1718-34-9 (<0.05)	Not determined
Phenolphthalein 77-09-8 (<0.05)	Not determined
Benzoic acid, 2-hydroxy-5-[(3-nitrophenyl)azo]-, monosodium salt 584-42-9 (<0.1)	Uncontrolled product according to WHMIS classification criteria
Methyl alcohol 67-56-1 (2)	1 % B2 D1B D2A D2B
Ethyl alcohol 64-17-5 (45)	0.1 % B2 D2B
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria



Chemical Name	NPRI
Methyl alcohol	X

Legend

X - Listed

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol

Prepared By
Issuing Date
Revision Date
Revision Note
(M)SDS sections updated 15

Regulatory Affairs Department
5/2/2012
02-May-2012

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