

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

Product name PHENOLPHTHALEIN INDICATOR 0.5%

### Other means of identification

Product Code(s) 2258

UN-No 1170

### Recommended use of the chemical and restrictions on use

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

### Details of the supplier of the safety data sheet

#### Manufacturer Address

LaMotte Company, Inc.  
802 Washington Avenue  
P.O. Box 329  
Chestertown, MD 21620 USA  
T 410-778-3100  
F 410-778-9748

### 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

Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable Liquids	Category 2

### EMERGENCY OVERVIEW

#### DANGER

#### Hazard statements

Causes serious eye irritation. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. . Highly flammable liquid and vapor.



**Appearance** Clear, colorless

**Physical state** liquid

**Odor** Alcohol

#### Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal

protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep cool.

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

May be harmful if swallowed Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Phenolphthalein	77-09-8	0.5
Methyl alcohol	67-56-1	3
Ethyl alcohol	64-17-5	58

### 4. FIRST AID MEASURES

#### FIRST AID MEASURES

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Refer to Section 8. Avoid contact with skin, eyes, and clothing. Remove all sources of

ignition. Take precautionary measures against static discharges. Wear protective gloves/clothing and eye/face protection.

**Environmental precautions** See Section 12 for additional Ecological Information.

#### **Methods and material for containment and cleaning up**

**Methods for containment** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**Methods for cleaning up** After cleaning, flush away traces with water.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**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.

### **Conditions for safe storage, including any incompatibilities**

**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.

**Incompatible Products** Strong oxidizing agents. Nitric acid.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Exposure guidelines**

<b>Chemical name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Phenolphthalein 77-09-8	-	-	None Established
Methyl alcohol 67-56-1	250 ppm STEL TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 325 mg/m <sup>3</sup>
Ethyl alcohol 64-17-5	1000 ppm STEL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

### **Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

### **Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Goggles.

**Skin and body protection** Nitrile rubber. Gloves & Lab Coat.

**Respiratory protection** Use only with adequate ventilation.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	Alcohol
<b>Appearance</b>	Clear, colorless		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>			
<b>Melting point/freezing point</b>	No information available		
<b>Boiling Point/Range</b>	78.5 °C (173.3°F)		for SDA (3A) Ethyl Alcohol
<b>Flash point</b>	16 °C (60.8°F)		for SDA (3A) Ethyl Alcohol
<b>Evaporation rate</b>			
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit:</b>	19% for Ethanol		
<b>Lower flammability limit:</b>	3.3% for Ethanol		
<b>Vapor pressure</b>	No information available		
<b>Vapor density</b>	1.6		@ 20°C (Air=1) for SDA (3A) Ethyl Alcohol
<b>Specific gravity</b>	No information available		
<b>Water solubility</b>	Soluble in water		
<b>Solubility in other solvents</b>	No information available		
<b>Partition coefficient</b>	No information available		
<b>Autoignition temperature</b>	No information available		
<b>Decomposition temperature</b>	No information available		
<b>Kinematic viscosity</b>	No information available		
<b>Dynamic viscosity</b>	No information available		
<b>Explosive properties</b>	No information available		
<b>Oxidizing properties</b>	No information available		
<b>Other Information</b>			
<b>Softening point</b>	No information available		
<b>Molecular weight</b>	No information available		
<b>VOC Content</b>	No information available		
<b>Density</b>	No information available		
<b>Bulk density</b>	No information available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents. Nitric acid.
<b>Hazardous decomposition products</b>	Carbon oxides (COx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenolphthalein 77-09-8	None Established	None Established	None Established
Methyl alcohol 67-56-1	= 6200 mg/kg ( Rat )	= 15800 mg/kg ( Rabbit )	= 22500 ppm ( Rat ) 8 h = 64000 ppm ( Rat ) 4 h
Ethyl alcohol 64-17-5	= 7060 mg/kg ( Rat )	None Established	= 124.7 mg/L ( Rat ) 4 h

### Information on toxicological effects

**Carcinogenicity**

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical name	ACGIH	IARC	NTP	OSHA
Phenolphthalein 77-09-8	-	Group 2B	Reasonably Anticipated	X
Methyl alcohol 67-56-1	-	None Established	None Established	-
Ethyl alcohol 64-17-5	A3	Group 1	Known	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

<b>ATEmix (oral)</b>	3546 mg/kg
<b>ATEmix (dermal)</b>	10638 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	17.8 mg/l 168469921 1339

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Unknown Aquatic Toxicity** 0.5% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Phenolphthalein 77-09-8	None Established	None Established	None Established
Methyl alcohol 67-56-1	None Established	13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	None Established
Ethyl alcohol 64-17-5	None Established	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static

**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.

**Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Phenolphthalein 77-09-8	None Established
Methyl alcohol 67-56-1	-0.77
Ethyl alcohol 64-17-5	-0.32

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not re-use empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Phenolphthalein 77-09-8	None Established	-	None Established	None Established
Methyl alcohol 67-56-1	None Established	Included in waste stream: F039	None Established	Ignitable waste
Ethyl alcohol 64-17-5	None Established	-	None Established	None Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Phenolphthalein 77-09-8	None Established	None Established	None Established	None Established
Methyl alcohol 67-56-1	None Established	None Established	None Established	None Established
Ethyl alcohol 64-17-5	None Established	None Established	None Established	None Established

Chemical name	California Hazardous Waste Status
Phenolphthalein 77-09-8	-
Methyl alcohol 67-56-1	-
Ethyl alcohol 64-17-5	-

### 14. TRANSPORT INFORMATION

**DOT**

**Proper shipping name** ETHANOL SOLUTION (Ethyl Alcohol Solution)  
**UN-No** 1170  
**Hazard Class** 3  
**Packing group** II

**Proper shipping name** ETHANOL SOLUTION (Ethyl Alcohol Solution)  
**UN-No** 1170  
**Hazard Class** 3  
**Packing group** II

**Proper shipping name** ETHANOL SOLUTION (Ethyl Alcohol Solution)  
**UN-No** 1170  
**Hazard Class** 3  
**Packing group** II

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Complies  
**DSL/NDL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies

IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**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	SARA 313 - Threshold Values %
Phenolphthalein 77-09-8	None Established
Methyl alcohol 67-56-1	1.0
Ethyl alcohol 64-17-5	None Established

**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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phenolphthalein 77-09-8	None Established	None Established	None Established	None Established
Methyl alcohol 67-56-1	None Established	None Established	None Established	None Established
Ethyl alcohol 64-17-5	None Established	None Established	None Established	None Established

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Phenolphthalein 77-09-8	-	None Established	-
Methyl alcohol 67-56-1	5000 lb	None Established	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl alcohol 64-17-5	-	None Established	-

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

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

Chemical name	California Prop. 65

Phenolphthalein 77-09-8	Carcinogen
Methyl alcohol 67-56-1	Developmental
Ethyl alcohol 64-17-5	Carcinogen

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phenolphthalein 77-09-8	X	None Established	None Established
Methyl alcohol 67-56-1	X	X	X
Ethyl alcohol 64-17-5	X	X	X

**16. OTHER INFORMATION**

**NFPA** Health hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards N/A  
**HMIS** Health hazard 0 Flammability 0 Physical hazards 0 Personal precautions N/A



Issuing Date Feb-10-2015  
 Revision Date Feb-10-2015  
 Reason for revision New US GHS format  
**Disclaimer**

The information provided on this SDS 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**