



**Material Safety Data Sheet**  
**Phenolphthalein solution, alcoholic**

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Phenolphthalein solution, alcoholic

**Catalog Numbers:**

LC18200, LC18220

**Synonyms:**

Phenolphthalein indicator solutions

**Company Identification:**

LabChem, Inc.  
 200 William Pitt Way  
 Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	55-5
64-17-5	Ethyl alcohol	44-95
77-09-8	Phenolphthalein	0.5-1

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Appearance: Colorless**Flammable liquid and vapor. Use only with adequate ventilation. Keep container closed.**Warning! May cause central nervous system effects.**Target Organs: Noneknown.***Potential Health Effects****Eye:**

Eyecontactmayresultincorneallesions,visionlossorimpairment,painorblindness.5ppmand40mgreportedto cause moderate irritation.

**Skin:**

Prolongedand/orrepeatedcontactmaycausedefattingoftheskinanddermatitis.



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**Ingestion:**

Phenolphthalein may cause collapse, hypotension, purging, vomiting, diarrhea, pallor, rapid heart rate, coma, death. Denaturants used may contribute to toxic effects including visual distress, nausea, vomiting, headache.

**Inhalation:**

May cause liver and kidney damage. Inhalation or ingestion of ethanol may result in inebriation, depression of nervous system, convulsions, coma and death from respiratory or cardiovascular failure.

**Chronic:**

Denatured ethanol is associated with respiratory irritation, central nervous system depression, visual impairment, dermatitis, conjunctivitis, sensory and motor impairment.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:**

Give conscious victim 2-4 cupfuls of milk or water. Get medical aid at once. Induce vomiting (touch fingert to back of throat) keeping head lower than hips (prevent aspiration into lungs). Medical personnel may administer oxygen, maintain airway and blood pressure; gastric lavage may be performed.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Vapors may form an explosive mixture with air. Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Flammability class (OSHA): II Move container if possible, avoid breathing vapors or dust. Flammable liquid is poisonous - wear respiratory gear. Use flooding quantities of water as fog (streams may spread fire), cool all containers.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

Not applicable.

**Flash Point:**

Not applicable.

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS # 64-17-5 health-0; flammability-3; reactivity-0

CAS# 77-09-8: Not published.

**Explosion Limits:**

Lower: No information      Upper: No information



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### Section 6 - Accidental Release Measures

#### General Information:

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Shut off ignition source, avoid vapors. Isolate, ventilate spill area. Keep out of sewers/drains. Label reclaimed spill material as flammable.

### Section 7 - Handling and Storage

#### Handling:

Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid breathing dust, vapor, mist, or gas.

#### Storage:

Flammables-area. Store capped at room temperature. Protect from heat and incompatibles. Do not store in unmarked containers.

### Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Ventilation equipment must be explosion-proof. Provide local exhaust or general dilution ventilation.

#### Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Ethyl alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA;
Phenolphthalein	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

#### OSHA Vacated PELs

Ethyl alcohol: 1000 ppm TWA; 1900 mg/m<sup>3</sup> TWA

Ethyl alcohol: 1000 ppm TWA; 1900 mg/m<sup>3</sup> TWA

### Personal Protective Equipment

#### Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

#### Skin:

Wear protective gloves (butyl, neoprene, nitrile).

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.



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#### Respirators:

Firefighting--anyself-containedbreathingapparatuswithfullfacepieceoperatedinpressure-demandmode.Use supplied air (SA) respirators or self-contained breathing apparatus (SCBA) at 2000ppm; SA or SCBA with Facepiece at 10,000ppm; above 10,000ppm use type C SAF in positive pressure/continuous flow mode; pos.press. SCBA for escape.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** Colorless

**Odor:** Pungentalcoholodor

**pH:** No information found.

**Vapor Pressure:** No information found.

**Vapor Density:** > air

**Evaporation Rate:** >1 (ether=1)

**Viscosity:** No information found.

**Boiling Point:** No information found.

**Freezing/Melting Point:** No information found.

**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble.

**Specific Gravity/Density:** No information found.

**Molecular Formula:** No information found.

**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

#### Chemical Stability:

Stableundernormaltemperaturesandpressuresuptoboilingpoint.

#### Conditions to Avoid:

Incompatible materials.

#### Incompatibilities with Other Materials

Alkaloids, alkali metals, nitric acid, acetyl chloride, acetyl bromide, bromine pentafluoride, chromic anhydride, chromyl chloride, permanganic acid, platinum, potassium dioxide, potassium t-butoxide, hydrogen peroxide/sulfuric acid mixes, aluminum sesquibromide ethylate, calcium hypochlorite, iodine-mercuric oxide, manganese perchlorate mixtures, perchloric acid, potassium superoxide, sodium hydrazide, ammonium hydroxide-silver oxide mix., hydrogen peroxides, iodine-phosphorus, silver-nitric acid, silver nitrate.

#### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, formaldehyde.

#### Hazardous Polymerization

Has not been reported

## Section 11 - Toxicological Information

#### RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 64-17-5: KQ6300000.



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CAS# 77-09-8: SM8380000.

#### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 64-17-5:

Inhalation, mouse: LC50 = 39 gm/m<sup>3</sup>/4H

Inhalation, rat: LC50 = 20000 ppm/10H

Oral, mouse: LD50 = 3450 mg/kg

Oral, rabbit: LD50 = 6300 mg/kg

Oral, rat: LD50 = 7060 mg/kg.

CAS# 77-09-8:

No information found.

#### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 64-17-5

ACGIH: A4 - Not Classifiable as a Human Carcinogen

California: Not listed.

NIOSH: Not listed.

NTP: Not listed.

OSHA: Not listed.

IARC: Not listed.

CAS# 77-09-8

ACGIH: Not listed.

California: carcinogen; initial date 5/15/98

NIOSH: Not listed.

NTP: Suspect carcinogen

OSHA: Possible Select carcinogen

IARC: Group 2B

#### Epidemiology:

Ethanol--eye, skin, and mucous membrane irritant; central nervous system depressant.

Phenolphthalein is an eye, skin, mucous membrane and respiratory tract irritant; considered dangerous if applied directly to skin.

#### Teratogenicity:

#### Reproductive:

#### Mutagenicity:

#### Neurotoxicity:

## Section 12 - Ecological Information

No information found.



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**Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Ethanol, solution

**Hazard Class:** 3

**UN Number:** UN1170

**Packing Group:** PG III

**Section 15 - Regulatory Information**

**US Federal**

**TSCA**

CAS#7732-18-5 is listed on the TSCA Inventory.

CAS#64-17-5 is listed on the TSCA Inventory.

CAS#77-09-8 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ)**

None of the components are on this list.

**CERCLA/SARA Section 313**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**US State**

**State Right to Know**

Ethyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

**California Regulations**

WARNING: This product contains Ethyl alcohol, a chemical known to the state of California to cause birth defects or other reproductive harm.

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**European/International Regulations**

**Canadian DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 64-17-5 is listed on Canada's DSL List.

CAS# 77-09-8 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.



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CAS# 64-17-5 is listed on Canada's Ingredient Disclosure List.  
CAS# 77-09-8 is not listed on Canada's Ingredient Disclosure List.

**Section 16 - Other Information**

MSDS Creation Date: May 6, 1998  
Revision Date: December 2, 2008

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