



Material Safety Data Sheet

Thymolphthalein, 0.05% - 0.1% in Ethanol

Section 1 - Chemical Product and Company Identification

MSDS Name:

Thymolphthalein, 0.05% - 0.1% in Ethanol

Catalog Numbers:

LC26070, LC26075

Synonyms:

Thymolphthalein pH indicator; pH 9.3 to pH 10.5 colorless to blue.

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
64-17-5	Ethyl alcohol	90
67-63-0	Isopropyl alcohol	5
67-56-1	Methyl alcohol	5
125-20-2	Thymolphthalein	0.05 - 0.1

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear, colorless solution

Danger! Flammable. May be fatal or cause blindness if swallowed. Causes irritation by all exposure routes. May cause central nervous system depression. May cause liver and kidney damage. May cause reproductive and fetal effects.

Target Organs: Kidneys, central nervous system, liver.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation. May cause blindness if absorbed through the skin.



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Ingestion:

May cause irritation of the digestive tract. Symptoms may include headache, excitement, fatigue, nausea, vomiting, stupor, coma and possible death due to respiratory failure. May cause systemic toxicity with acidosis. May cause liver and kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea.

Inhalation:

Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, unconsciousness and coma.

Chronic:

Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Prolonged or repeated skin contact may cause defatting and dermatitis. 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:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until chemical is gone. Get medical aid at once.

Skin:

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

Ingestion:

Do not induce vomiting. If vomiting occurs naturally, keep head lower than hips to prevent aspiration into lungs. Give conscious victim 2-4 cupfuls of milk or water. Get medical aid at once. Give oxygen if respiration is depressed.

Inhalation:

Move victim to fresh air immediately. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained Breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Flammable liquid. Vapor-air mixtures are explosive at temperatures above the flashpoint. Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool.

Extinguishing Media:

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

Autoignition Temperature:

698°F (370°C)

Flash Point:

57°F (14°C)

NFPA Rating:

CAS# 64-17-5: Health-0; Flammability-3; Instability-0



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CAS# 67-63-0: Health-1; Flammability-3; Instability-0
CAS# 67-56-1: Health-1; Flammability-3; Instability-0
CAS# 125-20-2: Health-1; Flammability-0; Instability-0

Explosion Limits:

Lower: 4.3 Upper: 19

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. Label reclaimed spill material as flammable. Water may be used to reduce vapor hazard - keep out of sewers and drains, vapors explosive, may ignite.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Ethyl alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m ³ TWA; 3300 ppm IDLH	1000 ppm TWA; 1900 mg/m ³ TWA
Isopropyl alcohol	200 ppm TWA; 400 ppm STEL	400 ppm TWA; 980 mg/m ³ TWA; 2000 ppm IDLH	400 ppm TWA; 980 mg/m ³ TWA; 500ppm STEL
Methyl alcohol	200 ppm TWA; 250 ppm STEL	200 ppm TWA; 250 ppm STEL; 6000 ppm IDLH	200 ppm TWA; 260 mg/m ³ TWA
Thymolphthalein	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/m³ TWA
Isopropyl alcohol: 400 ppm TWA; 980 mg/m³ TWA



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Methyl alcohol: 200 ppm TWA; 260 mg/m³ TWA

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	Colorless
Odor:	Alcohol-like (Odor threshold 5-10ppm)
pH:	<9
Vapor Pressure:	40 mm Hg @ 20C
Vapor Density:	1.6
Evaporation Rate:	< ether
Viscosity:	No information found.
Boiling Point:	172°F (78°C)
Freezing/Melting Point:	-172°F (-113°C)
Decomposition Temperature:	No information found.
Solubility in water:	Soluble
Specific Gravity/Density:	0.8
Molecular Formula:	No information found.
Molecular Weight:	No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures

Conditions to Avoid:

Incompatible materials, excess heat, ignition sources.

Incompatibilities with Other Materials:

Strong oxidizing agents, alkalis, mineral acids, halogenated organics.

Hazardous Decomposition Products:

Oxides of carbon, formaldehyde.

Hazardous Polymerization:

Has not been reported



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Section 11 - Toxicological Information

RTECS:

CAS# 64-17-5: KQ6300000.

CAS# 67-63-0: NT8050000.

CAS# 67-56-1: PC1400000.

CAS# 125-20-2: unlisted.

LD50/LC50:

CAS# 64-17-5:

Inhalation, rat: LC50 = 20000 ppm/10H

Oral, rat: LD50 = 7060 mg/kg.

CAS# 67-63-0:

Oral, rat: LD50 = 5045 mg/kg

Skin, rabbit: LD50 = 12800 mg/kg.

CAS# 67-56-1:

Inhalation, rat: LC50 = 64000 ppm/4H

Oral, rat: LD50 = 5628 mg/kg

Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 125-20-2:

Not available

Carcinogenicity:

CAS# 64-17-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 67-63-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 67-56-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 125-20-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome". Among the characteristics of this syndrome are intrauterine and postnatal growth deficiency, a distinctive pattern of physical malformation, and behavioral/cognitive impairment such as fine motor dysfunction and mental retardation. Not all affected children have all of the features of the syndrome. Central Nervous System depressant.

Teratogenicity:

See RTECS for complete information.

Reproductive:

No information found

Mutagenicity:

See RTECS for complete information.

Neurotoxicity:

No information found

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 II

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 64-17-5 is listed on the TSCA Inventory.
CAS# 67-63-0 is listed on the TSCA Inventory.
CAS# 67-56-1 is listed on the TSCA Inventory.
CAS# 125-20-2 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313:

This material contains Isopropyl alcohol (CAS# 67-63-0, 5%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. This material contains Methyl alcohol (CAS# 67-56-1, 5%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

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.

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

Isopropyl 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.

European/International Regulations

Canadian DSL/NDSL:

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



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CAS# 67-63-0 is listed on Canada's DSL List.
CAS# 67-56-1 is listed on Canada's DSL List.
CAS# 125-20-2 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 64-17-5 is listed on Canada's Ingredient Disclosure List.
CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List.
CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.
CAS# 125-20-2 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 1, 1998
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