

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Thymolphthalein Solution in Water and Ethanol

CAS number See section 3

Synonyms None

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

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

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable Liquid Category 2  
Serious Eye Damage/Eye Irritation Category 2

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Highly flammable liquid and vapour.  
Causes serious eye irritation.

Precautionary statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Store in a well-ventilated place. Keep container tightly closed.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Ethanol	Ethyl alcohol; EtOH	64-17-5	49-50%
Thymolphthalein	TP	125-20-2	0.04%
Water	H2O	7732-18-5	49-50%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**General advice**

Show this sheet to a doctor if medical advice is needed.

**If inhaled**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

<b>In case of skin contact</b>	Rinse skin with water/shower. Take off contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.
<b>In case of eye contact</b>	Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.
<b>If swallowed</b>	Rinse mouth. Call a doctor if you feel unwell.

## 4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea, Vomiting, Abdominal pain, Breathing difficulties, Vertigo, Drowsiness, Narcosis, Loss of righting reflex, and ataxia.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

**Suitable extinguishing media** Water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, Carbon dioxide (CO<sub>2</sub>). Co-ordinate firefighting measures to the fire surroundings!

**Unsuitable extinguishing media** Water jet.

## 5.2 Specific hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

## 5.3 Special protective equipment and precautions for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

**Explosion limits**

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

**NFPA**

Health	Flammability	Instability	Physical hazards
1	3	0	N/A

## SECTION 6: Accidental release measures

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

Avoid contact with skin, eyes, and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Keep away from sources of ignition. No smoking. Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage of vapours into cellars, flues, and ditches.

#### Hygiene measures

Wash hands before breaks and after work. Keep away from food, drink, and animal feeding stuffs. When using do not smoke.

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

#### Storage conditions

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Observe hints for combined storage. Incompatible materials: see Section 10. Ground/bond container and receiving equipment. Use local and general ventilation. Recommended storage temperature: 15 – 25 °C.

## Incompatibilities

Keep/store away from oxidizing substances.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Ethanol	PEL-TWA	1000 ppm 1900 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Ethanol	STEL	1000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Ethanol	IDLH	3300 ppm
	TWA	1000 ppm 1900 mg/m <sup>3</sup>

#### Biological occupational exposure limits

No information available.

### 8.2 Exposure controls

#### Appropriate engineering controls

No information available.

#### Personal protective equipment

##### Eye/face protection

Use safety goggle with side protection.

##### Skin protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

##### Body Protection

Flame-retardant protective clothing.

##### Respiratory protection

Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

### Control of environmental exposure

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	Alcohol-like
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No information available
Boiling Point/Range	No information available
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	No information available
Solubility	Miscible in water
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	Mixture
Molecular Weight	Mixture
VOC Content(%)	50%
Oxidizing properties	None

### 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Vapours may form explosive mixtures with air.

## 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

## 10.3 Possibility of hazardous reactions

Violent reaction with strong oxidizers, Alkali metals, Alkaline earth metal, Acetic anhydride, Peroxides, Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>), Nitric acid, Nitrate, Perchlorates.

## 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

## 10.5 Incompatible materials

Oxidizing substances.

## 10.6 Hazardous decomposition products

See Section 5 for hazardous combustion products.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	10470 mg/kg (Rat)	-	117-125 mg/L/4h (Rat)

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ethanol	64-17-5	Not listed	Not listed	Not listed	Not listed	Not listed

Thymolphthalein	125-20-2	Not listed	Not listed	Not listed	Not listed	Not listed
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#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Chronic effects

No information available.

### 11.2 Additional Information

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Component		Species	Test Results
Ethanol	EC10	Freshwater Algae	11.5 mg/L, 72 hours
	EC50	Freshwater Algae	275 mg/L, 72 hours
	LC50	Freshwater Fish	11200 mg/L, 24 hours
	NOEC	Freshwater Fish	250 mg/L
	EC50	Freshwater Invertebrate	5012 mg/L, 48 hours
		Marine Invertebrate	857 mg/L, 48 hours
	NOEC	Freshwater Invertebrate	9.6 mg/L, 10 days
		Marine Invertebrate	79 mg/L, 96 hours

### 12.2 Persistence and degradability

Data not available.

### 12.3 Bio accumulative potential

Data not available.

### 12.4 Mobility in soil

Data not available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .



## 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

## 12.7 Other adverse effects

No information available.

# SECTION 13: Disposal considerations

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# SECTION 14: Transport information

### DOT (US)

UN Number	UN1170
Proper Shipping name	ETHANOL SOLUTION
Hazard Class	3
Packaging Group	II

### IMDG

UN Number	UN1170
Proper Shipping name	ETHANOL SOLUTION
Hazard Class	3
Packaging Group	II

### IATA

UN Number	UN1170
Proper Shipping name	ETHANOL SOLUTION
Hazard Class	3
Packaging Group	II

# SECTION 15: Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed/applicable.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed/applicable.

**SARA 304 Emergency release notification**

Not listed/applicable.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed/applicable.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed/applicable.

**SARA 311/312 Hazardous**

See Section 2 for more information.

**SARA 313 (TRI reporting)**

Not listed/applicable.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed/applicable.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed/applicable.

**Safe Drinking Water Act**

Not listed/applicable.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Listed, Ethanol (CAS #64-17-5).

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed, Ethanol (CAS #64-17-5).

**US. New Jersey Worker and Community Right-to-Know Act**

Listed, Ethanol (CAS #64-17-5).

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed, Ethanol (CAS #64-17-5).

**California Proposition 65**

Listed, Ethanol (CAS #64-17-5).

## **SECTION 16: Other information**

Date of Issue: 7/8/2025

## **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet 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.