

# **SAFETY DATA SHEET**

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

#### 1.1 Product identifiers

Product name Phenolphthalein Solution, Alcoholic, 1%

CAS number See Section 3

Synonyms Phenolphthalein Indicator, 1% in IPA; Phenolphthalein Indicator

Solution

# 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 Liquids

Serious Eye Damage/Eye Irritation

Category 2

Germ Cell Mutagenicity

Carcinogenicity

Category 2

Reproductive Toxicity

Specific Target Organ Toxicity (single exposure)

Category 3

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Target Organ(s) - Respiratory system, Central nervous system (CNS)

Specific Target Organ Toxicity (repeated exposure)

Category 2

Target Organ(s) - Kidney, Liver

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements Highly flammable liquid and vapor.

Causes serious eye irritation.

Suspected of causing genetic defects.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated

exposure.

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. 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.

Response: IF exposed or concerned: Get medical attention/advice.

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

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

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.

Fire: In case of fire, use CO2, dry chemical, or foam for extinction.

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

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

May form explosive peroxides.

WARNING: Cancer - https://www.p65warnings.ca.gov/.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
2-Propanol	Isopropyl alcohol; Isopropanol; IPA	67-63-0	99%
Phenolphthalein	-	77-09-8	1%

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-

to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is

required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediate

medical attention is required.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Seek medical advice.

If swallowed Do NOT induce vomiting. Call a physician or poison control center

immediately.

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

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea, and vomiting.

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

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Treat symptomatically.

#### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

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Suitable extinguishing media Water spray, Carbon dioxide (CO2), dry chemical,

alcohol-resistant foam. Water mist may be used to

cool closed containers.

**Unsuitable extinguishing media**Water may be ineffective, Do not use a solid water

stream as it may scatter and spread fire.

## 5.2 Specific hazards arising from the substance or mixture

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode when heated. May form explosive peroxides.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2). Peroxides.

## 5.3 Special 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. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.4 Further information

Flash Point  $12 \,^{\circ}\text{C} / 53.6 \,^{\circ}\text{F}$ 

**Autoignition Temperature** 398.9 °C / 750 °F

**Explosion limits** 

**Upper** 12.7 vol % **Lower** 2.0 vol %

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards	
2	3	0	N/A	

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

## 6.2 Environmental precautions

Should not be released into the environment.

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

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Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

#### 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

#### Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe mist/vapors/spray. Do not ingest. If swallowed, seek immediate medical assistance. Use only under a chemical fume hood. Keep away from open flames, hot surfaces, and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, sparks, and flame.

#### Incompatibilities

Strong oxidizing agents. Strong acids. Alkali metals. Aluminium.

## **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	
	(Vacated) TWA	400 ppm 980 mg/m3	
Isopropyl alcohol	(Vacated) STEL	500 ppm 1225 mg/m3	
	TWA	400 ppm 980 mg/m3	

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value
Isopropyl alcohol	TWA	200 ppm
	STEL	400 ppm

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

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Component	Туре	Va	lue
Isopropyl alcohol	IDLH	2000 ppm	
	TWA	400 ppm	980 mg/m3
	STEL	500 ppm	1225 mg/m3

## **Biological occupational exposure limits**

No information available.

## 8.2 Exposure controls

## Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

#### Personal protective equipment

## Eye/face protection

Goggles.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

## **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

## Respiratory protection

No protective equipment is needed under normal use conditions.

#### Control of environmental exposure

No information available.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless
Odor Alcohol-like

Odor Threshold No information available

pH Not applicable
Melting Point/Range -89 °C / -128.2 °F
Boiling Point/Range 83 °C / 181.4 °F

Evaporation Rate 2.88

Flammability (solid) Not applicable

Flammability or explosive limit

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Upper 12.7 vol %
Lower 2.0 vol %

Vapor Pressure 40 mmHg

Vapor Density 2.1
Density 0.7855

Solubility Soluble in water
Partition coefficient: No data available

n-octanol/water

Autoignition Temp 398.9 °C / 750 °F

Decomposition Temp

Viscosity

No information available

No information available

Molecular Formula N/A
Molecular Weight N/A

VOC Content(%)

Oxidizing properties

No information available

No information available

## 9.2 Other safety information

No information available.

#### **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces, and sources of ignition.

#### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Alkali metals, Aluminium.

## 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), Peroxides.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

**Product Information, Component Information** 

Acute toxicity

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	5045 mg/kg (Rat) 3600 mg/kg (Mouse)	12800 mg/kg (Rat)	72.6 mg/L (Rat) 4h

#### Skin corrosion/irritation

No information available.

## Serious eye damage/eye irritation

Irritating to eyes.

#### Respiratory or skin sensitization

Irritating to respiratory system.

## Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	Not listed	Not listed	Not listed	Not listed	Not listed
Phenolphthalein	77-09-8	Group 2B	Reasonably Anticipated	Not listed	Х	Not listed

## Specific target organ toxicity - single exposure

Respiratory system, Central nervous system (CNS).

## Specific target organ toxicity - repeated exposure

Kidney, Liver.

#### Reproductive toxicity

Experiments have shown reproductive toxicity effects on laboratory animals. Developmental effects have occurred in experimental animals. Teratogenic effects have occurred in experimental animals.

#### **Chronic effects**

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea, and vomiting.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Do not empty into drains.

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Isopropyl alcohol	EC50	Desmodesmus subspicatus	> 1000 mg/L, 96h > 1000 mg/L, 72h	
	LC50 Pimephales promelas		11130 mg/L, 96h static 9640 mg/L, 96h flow- through	
	LC50	Lepomis macrochirus	> 1400000 µg/L, 96h	
	LC50	Daphnia	10000000 μg/L, 96h	
	EC50	Photobacterium phosphoreum	35390 mg/L, 5 min	
	EC50	Water Flea	13299 mg/L, 48h 9714 mg/L, 24h	

## 12.2 Persistence and degradability

Persistence is unlikely based on information available.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Will likely be mobile in the environment due to its volatility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

Phenolphthalein is listed as a Group III Chemical on the EU - Endocrine Disrupters Candidate List.

#### 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-no UN1219

Proper Shipping Name ISOPROPANOL

Hazard Class 3
Packing Group II

#### **IMDG**

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UN-no UN1219

Proper Shipping Name ISOPROPANOL

Hazard Class 3
Packing Group II

**IATA** 

UN-no UN1219

Proper Shipping Name ISOPROPANOL

Hazard Class 3
Packing 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 applicable.

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

Not listed.

#### **SARA 304 Emergency release notification**

Not regulated.

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

Not regulated.

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

#### **SARA 302 Extremely hazardous substance**

Not listed.

#### SARA 311/312 Hazardous

See Section 2 for more information.

## SARA 313 (TRI reporting)

Listed, Isopropyl alcohol (CAS #67-63-0). Listed, Phenolphthalein (CAS #77-09-8).

#### Other federal regulations

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

Not regulated.

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

Not regulated.

#### Safe Drinking Water Act

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Not regulated.

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

Listed, Isopropyl alcohol (CAS #67-63-0).

## **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Listed, Isopropyl alcohol (CAS #67-63-0).

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

Listed, Isopropyl alcohol (CAS #67-63-0). Listed, Phenolphthalein (CAS #77-09-8).

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

Listed, Isopropyl alcohol (CAS #67-63-0).

## **California Proposition 65**

Listed, Phenolphthalein (CAS #77-09-8).

## **SECTION 16: Other information**

Issue date: 03/11/2024 Revision 1: 01/08/2025

#### **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.

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