

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name            N-Propanol  
CAS number            71-23-8  
Synonyms                1-Propyl alcohol

#### 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

<b>Emergency Phone #</b>	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 (Category 2)  
Serious eye damage/eye irritation (Category 1)  
Specific target organ toxicity, single exposure (Category 3 narcotic effects)

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Highly flammable liquid and vapor. Causes serious eye damage. May cause drowsiness or dizziness.

Precaution statements

Prevention

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.  
Avoid breathing mist/vapor. Use only outdoors or in a well-ventilated area.  
Wear protective gloves/eye protection/face protection

Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately  
IN CASE OF FIRE: Use appropriate media to extinguish.

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

None known

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
N-Propyl Alcohol	N-Propanol	71-23-8	>99%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

#### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

<b>In case of skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>In case of eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>If swallowed</b>	Rinse mouth. Get medical attention if symptoms occur.

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

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2 Specific hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides

#### 5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Use standard firefighting procedures and consider the hazards of other involved materials.

#### 5.4 Further information

NFPA: Health - 2      Flammability - 3      Instability - 0      Physical hazards - N/A

### SECTION 6: Accidental release measures

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

## **6.2 Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

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

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is completely soluble in water. **Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS

## **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**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. Do not breathe mist or vapor. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid prolonged exposure.

### **Hygiene measures**

Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

### **Storage conditions**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**Incompatibilities**

See section 10 of SDS

**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	
N-Propanol	PEL	500 mg/m3	200 ppm

**US. ACGIH Threshold Limit Values**

Component	Type	Value
N-Propanol	TWA	100 ppm

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

Component	Type	Value	
N-Propanol	STEL	625 mg/m3	250 ppm
	TWA	500 mg/m3	200 ppm

**Biological occupational exposure limits**

None noted for the ingredient

**8.2 Exposure controls**

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

**Personal protective equipment**

**Eye/face protection**

Chemical goggles are recommended.

**Skin protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

### Body Protection

Wear appropriate chemical resistant clothing.

### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Recommended Filter type: Organic gases and vapours filter. Type A. Brown.

Conforming to EN14387.

### Control of environmental exposure

Do not allow to be released into the environment.

## 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	No information available
Melting Point/Range	minus 197.5 °F (-127.5 °C)
Boiling Point/Range	206.6 °F (97 °C)
Evaporation Rate	75.2 °F (24.0 °C)
Flammability (solid)	Not applicable
Flammability or explosive limit	
Upper	2.1 % v/v
Lower	13.5 % v/v
Vapor Pressure	28.2 hPa at 77 °F (25 °C)
Vapor Density	2.1
Density	No information available
Solubility	Completely miscible
Partition coefficient; n-octanol/water	0.2 log Pow (77 °F (25 °C))
Autoignition Temp	752 °F (400 °C)
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	C3 H8 O
Molecular Weight	60.1 g/mol
VOC Content(%)	100%
Oxidizing properties	Not oxidizing

### 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

## 10.2 Chemical stability

Material is stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing

## 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

## 10.5 Incompatible materials

Strong oxidizing agents, strong acids

## 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
N-Propanol	>2000 mg/kg (Rat)	4052 mg/kg (Rabbit)	42 mg/l, 4h (Rat)

#### Skin corrosion/irritation

May be harmful if absorbed through skin

#### Serious eye damage/eye irritation

Causes serious eye damage

#### Respiratory or skin sensitization

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
N-Propanol	71-23-8	Not listed	Not listed	Not listed	Not listed	Not listed

#### Specific target organ toxicity - single exposure

May cause drowsiness and dizziness

**Specific target organ toxicity - repeated exposure**

None known

**Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

**Chronic effects**

Prolonged inhalation may be harmful.

**11.2 Additional Information**

No information available

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product		Species	Test Results
N-Propanol	EC50	Daphnia magna	3644 mg/l, 48 h
	LC50	Pimephales promelas	4480 mg/l, 96 h

**12.2 Persistence and degradability**

No data is available on the degradability of this substance.

**12.3 Bio accumulative potential**

No data available

**12.4 Mobility in soil**

Likely mobile in soil due to high miscibility in water.

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Endocrine disrupting properties**

No information available

**12.7 Other adverse effects**

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**SECTION 13: Disposal considerations**

**13.1 Waste Disposal Methods**



Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international regulations.

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:	UN1274
Proper shipping name:	n-Propanol
Hazard Class	3
Packaging Group	III
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling
Special provisions	B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

### IMDG

UN number:	UN1274
Proper shipping name:	n-Propanol
Hazard Class	3
Packaging Group	III
Environmental hazards	
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established

### IATA

UN number:	UN1274
Proper shipping name:	n-Propanol
Hazard Class	3
Packaging Group	III
Environmental hazards	
ERG Code	3L
Special precautions	Read safety instructions, SDS and emergency procedures before handling

## 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)**

Listed (N-PROPYL ALCOHOL (CAS 71-23-8))

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

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**

Flammable

Serious eye damage or irritation

Specific target organ toxicity

**SARA 313 (TRI reporting)**

Not regulated

**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**

Not regulated

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

N-PROPYL ALCOHOL (CAS 71-23-8) - Low Priority

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed

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

Listed

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

Listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

Issue date: 12/03/2018

Revision 1: 06/26/2024

**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.