**Product Description** 

## N-Propanol



#### Section 1

Product Name: N-Propanol

Recommended Use: Science education applications
Synonyms: Propyl-Alcohol; Ethylcarbinol
Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2

#### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

#### **DANGER**







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

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1, Flammable Liquid Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Vapor 100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

Acute Toxicity Inhalation Dust/Mist 100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

# Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 N-Propanol
 71-23-8
 100

## Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

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

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

to do. Continue rinsing.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Vapors may travel back to ignition source. Closed Containers exposed to heat may

explode. Risk of explosion if heated under confinement. Explosive when mixed with

oxidising substances.

Carbon dioxide, Carbon monoxide **Hazardous Combustion Products:** 

#### Section 6

## Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. Avoid contact with material. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid excess heat. Contain spilled liquid with sand clay. DO NOT use combustible materials such as sawdust. Use water spray to dilute spill to a nonflammable mixture Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120). Contain the discharged material.

#### Section 7 Handling and Storage

Handling: 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

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection. Bond and ground containers when transferring liquid. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-Storage:

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

Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials. Storage Code:

#### Section 8 Protection Information

**ACGIH OSHA PEL Chemical Name** (TWA) (STEL) (TWA) (STEL) N-Propanol 100 ppm TWA N/A 200 ppm TWA; 500 N/A mg/m3 TWA

**Control Parameters** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Wear a NIOSH **Respiratory Protection:** 

approved respirator if levels above the exposure limits are possible.

NIOSH approved air purifying respirator with organic vapor cartridge and dust/mist filter. Respirator Type(s): **Eye Protection:** 

Wear chemical splash goggles when handling this product. Have an eye wash station

available. In addition, wear a full face.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Nitrile

#### Section 9

## Physical Data

Formula: C3H8O Molecular Weight: 60.10 Appearance: Colorless Liquid Odor: No data available Characteristic Odor Threshold: No data available pH: 8.5 at 200 g/l at 20 °C

Melting Point: No data available

**Boiling Point: 93 C** Flash Point: 22 C

Flammable Limits in Air | Fl · 2 1% | IFI · 13 5%

Vapor Pressure: 14.5 mmHg at 20 °C Evaporation Rate (BuAc=1): 1.3 Vapor Density (Air=1): 2.1 Specific Gravity: .803 at 20 °C Solubility in Water: Soluble Log Pow (calculated): 0.25 - 0.34 Autoignition Temperature: 412 C

**Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: 100%

**Section 10 Reactivity Data** 

Reactivity: No data available

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Sparks, open flame, other ignition sources, and elevated temperatures.

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Polymerization:** Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute):

**Delayed Effects:** No data available

**Acute Toxicity:** 

**Chemical Name CAS Number** Oral LD50 **Dermal LD50** Inhalation LC50 N-Propanol Oral LD50 Rabbit 71-23-8 Inhalation LC50 Inhalation LC50 2825 mg/kg Rabbit = 4000(1h) Rat = 20000

ppm

mg/kg

Carcinogenicity:

**Chemical Name CAS Number** IARC NTP **OSHA** No data available 71-23-8 Not listed Not listed Not listed

**Chronic Effects:** 

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

Chronic: Mutation data cited., Reproductive data cited., Tumorigenic data cited., Not listed as a carcinogen by

IARC, NTP or OSHA.

Section 12 **Ecological Data** 

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data No data Bioaccumulation: Degradability: No data Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** 

N-Propanol Aguatic LC50 (96h) Fathead Minnow = 1000 MG/L 71-23-8

48 HR EC50 DAPHNIA MAGNA 3642 MG/L

Section 13 Disposal Information

Dispose in accordance with all applicable Federal, State and Local regulations. Always **Disposal Methods:** 

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

**Ground - DOT Proper Shipping Name:** Air - IATA Proper Shipping Name:

UN number: 1274 Class: 3 Packing group: II Proper shipping UN number: 1274 Class: 3 Packing group: II Proper shipping name: n-Propanol Marine pollutant: No Poison Inhalation Hazard: name: n-Propanol

No

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Section 15

Regulatory Information

All components in this product are on the TSCA Inventory.

Chemical Name

CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2) TQ

No

No

No

No

# Section 16 Additional Information

71-23-8

No data available

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No

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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