

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

## Section 1: IDENTIFICATION

Product Name: **Propanol (n-Propyl Alcohol), Natural**  
 Product Number: **0292800**  
 Recommended Use: Flavorings  
 Manufacturer: Aurochemicals  
 7 Nicoll Street  
 Washingtonville, NY 10992-USA  
 845-496-6065  
 845-496-6248 Fax

Emergency Telephone No.: 1-800-535-5053 (International 1-352-323-3500 collect)

## Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant  
 Target Organs: Nerves, Liver  
 GHS Classification: Flammable Liquids (Category 2)  
 Acute toxicity, Inhalation Category 5)  
 Skin irritation (Category 3)  
 Serious eye damage (Category 1)  
 Specific target organ toxicity-Single Exposure (Category 3)

Signal Word: DANGER

Pictogram or written description



Hazard Statement: H225 Highly flammable liquid and vapor  
 H316 Causes mild skin irritation  
 H318 Causes serious eye damage  
 H333 May be harmful if inhaled  
 H336 May cause drowsiness or dizziness  
 Precautionary Statement P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P280 Wear protective gloves/protective clothing/eye and face protection  
 P305+ IF IN EYES: Rinse cautiously with water for several minutes,  
 P351+ Remove contact lenses if present and easy to do.  
 P338 Continue rinsing

HMIS Classification: Health Hazard 2  
 Chronic Health Hazard\*  
 Flammability 3

Potential Health Effects	Physical Hazards 0
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye burns
Ingestion	May be harmful if swallowed

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances:

Component	n-Propanol
Common Name:	Propanol
Synonyms:	Propyl alcohol
CAS #	71-23-8
EC#	200-746-9
Formula	C <sub>3</sub> H <sub>8</sub> O
Index –No	603-003-00-0
Molecular Weight	60.1 g/mol

### Section 4: FIRST AID MEASURES

General Advise:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician.
Inhalation:	Provide fresh air, Consult a physician.
Ingestion:	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

### Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface- No smoking.
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Prevent fire-fighting water from entering surface or ground water Cool unopened containers with water spray from a safe distance.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides

### Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form
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Environmental-protected measures	explosive concentrations. Vapors can accumulate in low areas.
Precautions for safe handling	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
Procedures for cleaning / absorption	Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal.
Ventilate area	After clean up, wash spill area and ventilate the area well.

## Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:			Components with workplace control parameters	
Components	CAS-No	Value	Control Parameters	Basis
n-Propanol	71-23-8	TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks: Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen				
		TWA	200 ppm 500 mg/m <sup>3</sup>	USA. OSHA-Table Z-1 Limits for Air Contaminants-1910.1000
		STEL	250 ppm 625 mg/m <sup>3</sup>	USA. OSHA-Table Z-1 Limits for Air Contaminants-1910.1000
		TWA	200 ppm 500 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
The value in mg/m <sup>3</sup> is approximate				
		TWA	200 ppm 500 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Potential for dermal absorption				

**Personal Protective Equipment:** These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.

**Body Protection:** Complete suite protecting against chemicals, made of flame retardant antistatic material should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Respiratory Protection:** Required when vapors / aerosols are generated.

**Eye Protection:** Wear appropriate tightly fitting safety goggles. Face shield (8-inch minimum) NIOSH tested and approved.

Hand Protection:	Wear chemically resistant gloves of Nitrile rubber.
Industrial Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless
Odor:	Characteristic
Boiling Point:	97°C
Flashpoint:	15°C
Melting Point	-127°C (-197°F)- lit
Ignition temperature	395°C (743°F)- lit
Lower Explosion Limit	2.1% Vol.
Upper Explosion Limit	13.7% Vol
Vapor Pressure:	19.3 hPa (14.5 mmHg) at 20°C (68°F)
Specific Gravity @ 25°C:	0.8000-0.8120
Solubility	1:1 in 95% in alcohol

## Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, Flames and Sparks. Extremes of temperature and direct sunlight.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides
Further information	No data available

## Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50, Oral Rat	8,038 mg/kg
LC50 Inhalation-Rat	20000 ppm, 1 hr
LD50 Dermal Rabbit	4,000 mg/kg
Other information on acute toxicity	No data available
Skin corrosion/irritation	Skin-Rabbit: Mild skin irritation
Serious eye damage/eye irritation	Eye- Rabbit: Severe eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

### Carcinogenicity

IARC	No component of this product present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	May cause drowsiness or dizziness.
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Potential Health effects	Inhalation May be harmful if inhaled. Causes respiratory tract irritation, Vapors may cause drowsiness and dizziness. Ingestion May be harmful if swallowed Skin May be harmful if absorbed through skin. Causes skin irritation Eyes Causes eye irritation
Signs and Symptoms of Exposure	Central nervous system depression, prolonged or repeated exposure can cause; narcosis. Skin irritation.
Synergistic effects	No data available
RTECS:	UH8225000

## Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Toxicity to Fish:	LC50-Pimephales promelas – Fathead Minnow -1,000 mg/l-96 h
Toxicity to daphnia and other aquatic invertebrates	EC50- Daphnia magna (Water Flea) 3,642 mg/l – 48 hr
Persistence and degradability	Biodegradability
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	No data available

## Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b>	UN 1274 Class 3 Packing Group II
Proper shipping name	n-Propanol
Reportable Quantity (RQ)	
Marine pollutant	No
Poison Inhalation Hazard	No
<b>IMDG-Classification</b>	UN 1274 Class 3 Packing Group II EMS-No.: F-E S-D
Proper shipping name	n-PROPANOL

# Safety Data Sheet

**IATA-Classification** Marine pollutant No  
UN 1274 Class 3 Packing Group II  
Proper shipping name n-Propanol

## Section 15: REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Irritant

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know components n-Propanol CAS# 71-23-8 Rev. Date: 4/24/1993

Pennsylvania Right to Know components n-Propanol CAS# 71-23-8 Rev. Date: 4/24/1993

New Jersey Right to Know components n-Propanol CAS# 71-23-8 Rev. Date: 4/24/1993

California Prop. 65 components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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