## 2-Propanol



#### Section 1 Product Description

**Product Name:** 2-Propanol

Recommended Use: Science education applications

Synonyms: Isopropyl Alcohol; , Isopropanol; , IPA; , Sec-Propanol; , Dimethylcarbinol

**Distributor:** 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 irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

#### **GHS Classification:**

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

## Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 2-Propanol
 67-63-0
 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. If eye irritation persists: Get medical advice/attention.

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. Fire or excessive heat may produce hazardous decomposition products.

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

## Section 6 Spill or Leak Procedures

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Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe

to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in

the area.

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. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

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

closed in a cool, well-ventilated place.

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

Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 2-Propanol
 200 ppm TWA
 400 ppm STEL
 400 ppm TWA; 980
 N/A

 mg/m3 TWA
 mg/m3 TWA
 N/A

**Control Parameters** 

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure. Ventilation should effectively remove and prevent buildup of any vapor/mist/fume generated from the handling of this

product.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

Conduct air monitoring to determine if airborne concentrations exceed an applicable

exposure limit.

Respirator Type(s): NIOSH approved air purifying respirator with organic vapor cartridge and HEPA filter.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**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: CH2CHOHCH3

Molecular Weight: 60.10 g/mol

Appearance: Colorless Liquid

Odor: Strong Alcohol Odor

Odor Threshold: No data available

pH: No data available Melting Point: -89 C Boiling Point: 83 C Flash Point: 12 C

Flammable Limits in Air: 2.0 - 12.7%

Vapor Pressure: 42 hPa at 20 °C Evaporation Rate (BuAc=1): 2.3 Vapor Density (Air=1): 2.07 Specific Gravity: 0.7861 at 20 °C Solubility in Water: Slightly Soluble Log Pow (calculated): 0.05 Autoignition Temperature: 399 C

**Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: 100%

Section 10 Reactivity Data

**Reactivity:** Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

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

Incompatible Materials: Acids, Strong oxidizing agents, Strong reducing agents, Metals, Peroxides, Epoxides,

Isocyanates

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Central Nervous System Depression, Respiratory disorders

**Delayed Effects:** No data available

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC502-Propanol67-63-0Oral LD50 MouseNot determinedINHALATION3600 mg/kgLC50 Rat 16000

3600 mg/kg Oral LD50 Rat 5045 mg/kg

ppm

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHA2-Propanol67-63-0ListedNot listedNot 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: Evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: Central Nervous System
Chronic: No information available

Section 12 Ecological Data

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

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: No data
Bioaccumulation: No data

**Degradability:** Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

2-Propanol 67-63-0 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

96 HR LC50 LEPOMIS MACROCHIRUS > 1400000  $\mu$ G/L

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

Section 13 Disposal Information

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

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

Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14 Transport Information

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

UN1219
Isopropanol
Class 3
P.G. II

WITCHER FIGURE Shipping Name.
UN1219
Isopropanol
Class 3
P.G. II

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Section 15	Regulatory Information					
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

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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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