2-Propanol, 70%



Section 1 **Product Description**

Product Name: 2-Propanol, 70%

Science education applications **Recommended Use:** Isopropanol, Isopropyl Alcohol, IPA Synonyms: 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

Composition / Information on Ingredients Section 3

Chemical Name CAS# % 2-Propanol 67-63-0 70 Water 7732-18-5 30

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.

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

Handling and Storage Section 7

the area.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Handling:

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

ventilated place. Keep cool. Store locked up. Suitable for any general chemical storage.

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

Section 8 **Protection Information**

> **ACGIH OSHA PEL**

(STEL) (STEL) **Chemical Name** (TWA) (TWA) 2-Propanol 200 ppm TWA 400 ppm STEL 400 ppm TWA; 980 N/A ma/m3 TWA

Control Parameters

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

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

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

Physical Data Section 9

Formula: CH3CHOHCH3

Molecular Weight: 60.10 (2-Propanol) 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: 18 C

Flammable Limits in Air: 2.0 - 12.7% (2-Propanol)

Vapor Pressure: 31.5 mmHg at 20 °C Evaporation Rate (BuAc=1): 2.3 Vapor Density (Air=1): 2.07 (2-Propanol) Specific Gravity: approx 0.80 at 20 °C

Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: 70%

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

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

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

Isocyanates, Water-reactive materials

Will not occur **Hazardous Polymerization:**

Section 11 Toxicity Data

Inhalation and ingestion. Routes of Entry

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

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50** Inhalation LC50 **INHALATION**

67-63-0 Oral LD50 Rat 2-Propanol

LC50 Rat 16000 5045 mg/kg ppm

Oral LD50 Mouse 3600 mg/kg

7732-18-5 Oral LD50 Rat

90000 mg/kg

Carcinogenicity:

Water

Chemical Name CAS Number IARC NTP OSHA 2-Propanol 67-63-0 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: Central Nervous System **Chronic:** No information available

Section 12 **Ecological Data**

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

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

Persistence: Dissolved into water, Biodegradation, Evaporation into atmosphere

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

2-Propanol 67-63-0 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L

96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

7732-18-5 Water

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): Not Determined

Section 14 Transport Information

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

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UN1219 ISOPROPANOLCIass 3P.G. II

UN1219 ISOPROPANOL Class 3 P.G. II

Section 15							
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	

Section 16 Additional Information

Revised: 10/12/2015 Replaces: 10/06/2015 Printed: 10-29-2015

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	,
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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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