

## Material Safety Data Sheet



# 2-Propanol

Revised: 02/16/2012  
Replaces: 01/10/2012  
Printed: 02/16/2012

**Carolina Biological Supply Company**

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

**CAROLINA**  
www.carolina.com

### Section 1 - Product Description

**Product Name:** 2-Propanol

**Product Code(s):** 88-4890, 88-4892, 88-4865, 84-0509, C71524, C30595

**Size:** 10 ml, 500 mL, 4 L, 20 L

**Chemical Name:** 2-Propanol

**CAS Number:** See Section 3

**Formula:** CH<sub>3</sub>CHOHCH<sub>3</sub>

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

**Distributor:** Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 - Hazard Identification

**Emergency Overview:** **DANGER** - Highly flammable. Harmful if swallowed.

**Potential Health Effects:**

**Eyes:** May cause irritation.

**Skin:** May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort.

**Inhalation:** May cause irritation to respiratory tract.

### Section 3 - Composition / Information on Ingredients

**Principal Hazardous Components:** 2-Propanol (CAS # 67-63-0) 100%

**TLV units:** ACGIH-TLV: 400 ppm (STEL), 200 ppm (TWA)

**PEL units:** OSHA-PEL: 400 ppm (TWA)

### Section 4 - First Aid Measures

**Emergency and First Aid Procedures:**

**Eyes** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

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

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## Section 5 - Firefighting Procedures

**Flash Point (Method Used):** 11.67 °C (TCC); 17.22 °C (TOC)

**NFPA Rating:**

**Health:** 1

**Fire:** 3

**Reactivity:** 0

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

**Flammable Limits in Air % by Volume:** 2.0 12.7

**Autoignition Temperature:** 399 °C

**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

Fire or excessive heat may produce hazardous decomposition products.

## Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** Bond and ground containers when transferring liquid. Keep container tightly closed in a cool, well-ventilated place.

This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

## Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:**

**Local Exhaust:** Yes

**Mechanical(General):** Yes

**Special:** No

**Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

## Section 9 - Physical Data

**Molecular Weight:** 60.10 g/mol

**Boiling Point:** 82.5 °C

**Vapor Density(Air=1):** 2.01

**Percent Volatile by Volume:** 99%

**Solubility in Water:** Slightly Soluble

**Melting Point:** -88.5 °C to -89.5 °C

**Vapor Pressure:** 42 hPa at 20 °C

**Specific Gravity (H2O=1):** 0.7861 at 20 °C

**Evaporation Rate (BuAc=1):** 2.3

**Appearance and Odor:** Clear, colorless liquid, Alcohol odor.

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition.

**Incompatibility (Materials to Avoid):** Acids, Oxidizers, Halogens, Amines, Ammonia, Aldehydes,

**Hazardous Decomposition Products:** CO<sub>x</sub>,

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** orl-rat LD50: 5045 mg/kg; orl-mus 3600 mg/kg

**Effects of Overexposure:**

**Acute:** See Section 2

**Chronic:** N/A

**Conditions Aggravated by Overexposure:** Respiratory disorders,

**Target Organs:** Kidneys, Liver, Respiratory system, Skin, Eyes, Central Nervous System,

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

## Section 12 - Ecological Data

**EPA Waste Numbers:** D001 (flammable characteristic)

## Section 13 - Disposal Information

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## Section 14 - Transport Information

**DOT Proper Shipping Name:** UN1219

Isopropanol

Class 3

P.G. II

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute Fire Chronic

**Name List:**

2-Propanol - Yes

**Chemical Category:**

2-Propanol - No

**CERCLA Section 103 RQ(lb.):** 2-Propanol - No

**RCRA Section 261.33:** 2-Propanol - No

## Section 16 - Additional Information

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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act