# 2-Propanol, 50%



#### Section 1 **Product Description**

**Product Name:** 2-Propanol, 50%

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

CAS# % Chemical Name 2-Propanol (CAS # 67-63-0) 50% 67-63-0 50

#### 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.

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

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. May cause fire.

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

#### Section 6

# Spill or Leak Procedures

2-Propanol, 50% Page 1 of 4

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. Bond and ground containers when

transferring liquid. Do not breathe gas/fumes/vapor/spray.

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. 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 mg/m3 TWA
 N/A

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.

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

**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. Nitrile

Gloves:

# Section 9 Physical Data

Formula: C3H7OH Vapor Pressure: 31.5 mmHg at 20 °C Molecular Weight: 60.10 (2-Propanol) Evaporation Rate (BuAc=1): 2.3

Appearance: Colorless Liquid

Odor: Strong Alcohol Odor

Vapor Density (Air=1): 2.07 (2-Propanol)

Specific Gravity: approx 0.80 at 20 °C

Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available
Melting Point: -89 C

Boiling Point: 83 C

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

Flash Point: 18 C 12 C Viscosity: No data available Flammable Limits in Air: (100% 2-Propanol) LEL: 2.0% UEL: Percent Volatile by Volume: 99%

12.7%

### 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.

2-Propanol, 50% Page 2 of 4

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

Isocyanates, Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): , Eye disorders

Delayed Effects: No data available

**Acute Toxicity:** 

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

2-Propanol Oral LD50 Rat INHALATION 5045 mg/kg LC50 Rat 16000

Oral LD50 Mouse 3600 mg/kg Oral LD50 Rat

Water Oral LD50 Ra 90000 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA

2-Propanol Listed Not listed Not listed

**Chronic Effects:** 

Water

**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., Certain components or species of this product are

considered potential carcinogens.

Section 12 Ecological Data

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

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

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

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

ppm

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

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

No data available

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): D001

Section 14 Transport Information

Ground - DOT Proper Shipping Name:
UN1219, Isopropanol, 3, II
UN1219, Isopropanol, 3, II

2-Propanol, 50% Page 3 of 4

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

### Section 16 Additional Information

Revised: 08/26/2014 Replaces: 08/21/2014 Printed: 04-21-2015

alcohol

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.

ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program 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

2-Propanol, 50% Page 4 of 4