Alcohol Solution



Section 1 Product Description

Product Name: Alcohol Solution

Recommended Use: Science education applications

Synonyms: Isopropanol, Propan-2-ol, Isopropyl Alcohol, Rubbing 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;

GHS Classification:

Other Safety Precautions: May cause irritation.

May cause gastrointestinal discomfort. May cause irritation to respiratory tract.

May cause irritation to skin.

Decomposition produces noxious fumes.

Harmful if inhaled or swallowed.

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 98

 2-Propanol
 67-63-0
 2

Section 4 First Aid Measures

Emergency and First Aid Procedures

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

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

Skin Contact: After contact with skin, wash immediately with plenty of water.

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

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting

fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly

into the hot burning liquid.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: 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. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste

container

Section 7

Handling and Storage

Handling: Keep locked up and out of the reach of children. **Storage:** Suitable for any general chemical storage.

Storage Code: Green - general chemical storage

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

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.

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: Natural rubber, Neoprene, PVC or equivalent.

Section 9

Physical Data

Formula: C3H7OH Vapor Pressure: 42 hPa at 20 °C

Molecular Weight: See Section 3. Product is a mixture.

Evaporation Rate (BuAc=1): approx. 1

Vapor Density (Air=1): approx. 1

Appearance: Colorless

Odor: No data available

Odor Threshold: No data available

Vapor Density (Air=1): approx. 1

Specific Gravity: approx. 1

Solubility in Water: Soluble

pH: No data available
 Melting Point: < 0 C
 Boiling Point: 100 C
 Log Pow (calculated): No data available
 Autoignition Temperature: No data available
 Decomposition Temperature: No data available

Flash Point: No data available

Viscosity: 10

Flammable Limits in Air: N/A N/A Percent Volatile by Volume: 100%

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.

Incompatible Materials: Water-reactive materials, Acids, Strong oxidizing agents, Strong reducing agents, Metals,

Peroxides, Epoxides, Isocyanates

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

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Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): , Eye disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

2-Propanol 67-63-0 Oral LD50 Rat INHALATION

5045 mg/kg LC50 Rat 16000

Oral LD50 Mouse ppm

3600 mg/kg

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: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Mutation data cited., Reproductive data cited., Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology. Keep out of waterways.

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

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

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

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: Not Regulated Not regulated for air transport by IATA.

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 2-Propanol 67-63-0 Isopropyl Nο Nο Nο Nο alcohol

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Section 16 Additional Information

Revised: 09/03/2014 Replaces: 08/27/2014 Printed: 09-11-2014

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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