Isopropyl Alcohol, 91%



Section 1 Product Description

Product Name: Isopropyl Alcohol, 91%

Recommended Use: Science education applications
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 2A, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Isopropyl Alcohol
 67-63-0
 91

 Water
 7732-18-5
 9

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 alcohol resistant foam, carbon dioxide, or dry chemical 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 surface of the fire. Do Not direct a stream of water 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

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. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

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 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)

 Isopropyl Alcohol
 200 ppm TWA
 400 ppm STEL
 400 ppm TWA; 980
 N/A

 mg/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. Wear a NIOSH approved respirator if levels above

the exposure limits are possible.

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

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 latex,, Natural rubber, Neoprene, Nitrile, Butyl rubber

Section 9

Physical Data

Formula: H3CCH(OH)CH3 + H2O Molecular Weight: 60.01

Molecular Weight: 60.01
Appearance: Colorless Liquid
Odor: Strong Alcohol Odor

Odor Threshold: No data available

pH: No data available

Melting Point: No data available -90 C

Boiling Point: 83 C **Flash Point:** 12 C

Flammable Limits in Air: No data available

Vapor Pressure: 42 hPa at 20 °C

Evaporation Rate (BuAc=1): 2.3 (butyl acetate = 1)

Vapor Density (Air=1): 2.07 (air = 1)

Specific Gravity: 0.8 Solubility in Water: Soluble

Log Pow (calculated): 0.05 at 25 °C Autoignition Temperature: 399 C

Decomposition Temperature: No data available

Viscosity: 10

Percent Volatile by Volume: 100

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.

Incompatible Materials: Strong oxidizing agents, Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

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

Symptoms (Acute): Dizziness, Depressed Activity

Delayed Effects: Headache Nausea

Dizziness Vomiting

Central Nervous System Depression

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Isopropyl Alcohol67-63-0Oral LD50 RatINHALATION

67-63-0 Oral LD50 Rat INHALATION 5045 mg/kg LC50 Rat 16000

Oral LD50 Mouse 3600 mg/kg

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAIsopropyl Alcohol67-63-0ListedNot 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: No data available Chronic: No data available

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

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

Persistence: No data

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Isopropyl Alcohol 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

Water 7732-18-5 No data available

ppm

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, PG II

Air - IATA Proper Shipping Name: UN1219, Isopropanol, 3, PG II

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 Isopropyl Alcohol 67-63-0 Isopropyl No No No No

Section 16

Additional Information

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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.

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