

Safety Data Sheet

Isopropyl Alcohol, 99%, Purified

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Isopropyl Alcohol, 99%, Purified

Synonyms/Generic Names: IPA, Isopropanol, 2-propanol, sec-Propyl alcohol

Product Number: 2845

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Hazard Not Otherwise Classified (HNOC): None

Target Organs: Nerves, Kidneys, Cardiovascular system, Gastrointestinal tract, Liver

Signal Word: Danger

Pictograms:



GHS Classification:

Flammable liquids	Category 2
Skin irritation	Category 3
Eye irritation	Category 2A
Specific target organ toxicity-single exposure	Category 3

GHS Label Elements, including precautionary statements:

Hazard Statements:

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H225	Highly flammable liquid and vapor
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Revised on 02/28/2022 Page 1 of 7

Precautionary Statements:

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 hands thoroughly after handling.		
Use only outdoors or in a well-ventilated area.		
Wear protective gloves/protective clothing/eye protection/face protection.		
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse		
skin with water/shower.		
IF INHALED: Remove person to fresh air and keep comfortable for		
breathing.		
IF IN EYES: Rinse cautiously with water for several minutes. Remove		
contact lenses, if present and easy to do. Continue rinsing.		
Call a POISON CENTER/doctor/physician if you feel unwell.		
If skin irritation occurs: Get medical advice/attention.		
If eye irritation persists: Get medical advice/attention.		
In case of fire: Use appropriate media to extinguish.		
Store in a well-ventilated place. Keep container tightly closed.		
Store locked up.		
Dispose of contents/container in accordance with local regulations.		

Potential Health Effects

Eyes	Causes eye irritation.	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. Can cause irritation of mucous membranes and central nervous system depression.	
Skin	May be harmful if absorbed through skin. Causes skin irritation.	
Ingestion	May be harmful if swallowed.	

NFPA Ratings

Health	1
Flammability	3
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	2
Fire	3
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Isopropyl Alcohol	>99	67-63-0	200-661-7	C ₃ H ₈ O	60.10 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention.
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.

Revised on 02/28/2022 Page 2 of 7

Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Flammable in the presence of a source of ignition when the temperature is above the flash point. Use water spray, alcoholresistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool containers with water.		
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Use water spray to cool fire-exposed containers and disperse vapors. Containers may rupture in the heat of the fire. Do not use direct water stream, may spread the fire.		
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides) under fire conditions. Vapors can travel to a source of ignition and flash back. Containers may explode in a fire. Cool containers from a distance using water spray. Flames may be invisible. (See also Stability and Reactivity section)		

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Do not let product enter drains. Any release to the environment may be
	subject to federal/national or local reporting requirements.
Methods and materials for	Absorb spill with vermiculite or other noncombustible absorbent
containment and cleaning up	material, then place in a suitable container for disposal. Clean surfaces
	thoroughly with water to remove residual contamination. Dispose of all
	waste and cleanup materials in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation and grounding. Wash thoroughly after using. Keep container closed when not in use. See section 8 for recommendations on the use of personal protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Take measure to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in tightly closed, original containers in a cool, dry, well ventilated area. Do not store with strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Isopropyl Alcohol	200 ppm 492 mg/m ³	TLV	ACGIH

Revised on 02/28/2022 Page 3 of 7

400 ppm 984 mg/m ³	STEL	ACGIH
400 ppm 980 mg/m ³	PEL	OSHA
2000 ppm	IDLH	OSHA
400 ppm 980 mg/m ³	REL	NIOSH
500 ppm 1225 mg/m ³	STEL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work. REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles, and face shield.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, and full body covering. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid
Odor	Mild alcohol
Odor threshold	Not Available
рН	Not Available
Melting point/freezing point	-89°C (-129°F)
Initial boiling point and boiling range	82°C (180°F)
Flash point	12°C (54°F)
Evaporation rate	3.0
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	LEL: 2.5% UEL:12%
Vapor pressure	33 mmHg (@ 20°C)
Vapor density	2.07 (air=1)
Relative density	Not Available
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Log Pow: 0.05
Auto-ignition temperature	399°C (750°F)
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.

Page 4 of 7 Revised on 02/28/2022

Conditions to Avoid	Keep away from heat, flame and sparks
Incompatible Materials	Acids, alkali metals, oxidizing agents, iron salts, potassium,
	aluminum. May attack plastics and rubber.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	LD50 – rabbit – 18,286 mg/kg
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 – mouse – 5,143 mg/kg

Carcinogenicity

IARC	3-Group 3: Not classifiable as to its carcinogenicity to humans (Isopropyl Alcohol).
ACGIH	A4: Not classifiable as a human carcinogen (Isopropyl Alcohol).
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Burning, itching, redness. May be harmful if absorbed through skin.
Eyes	Redness, excessive blinking and watering eyes.
Respiratory	Coughing, wheezing, headache, disorientation, blurred vision, dizziness, fatigue or
	nausea.
Ingestion	Nausea, vomiting and central nervous system depression.

Chronic Toxicity	May cause damage to the following organs: kidneys, liver, skin, central nervous system.
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Pre- and Post- implant mortality.
Target Organ(s)	May cause drowsiness or dizziness. Nerves, Kidneys, Cardiovascular
	system, Gastrointestinal tract, Liver
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

Revised on 02/28/2022 Page 5 of 7

13. DISPOSAL CONSIDERATIONS

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product or residue.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN1219, Isopropanol, 3, pg II	
TDG	UN1219, ISOPROPANOL, 3, PG II	
IMDG	UN1219, ISOPROPANOL, 3, PG II	
Marine Pollutant	No	
IATA/ICAO	UN1219, Isopropanol, 3, pg II	

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Listed: Isopropyl Alcohol
Massachusetts: Toxic or Hazardous Substance List,	Listed: Isopropyl Alcohol
Right to Know	
Pennsylvania: Hazardous Substance List	Listed: Isopropyl Alcohol
New Jersey: Right to Know Hazardous Substance	Listed: Isopropyl Alcohol
List	
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Fire Hazard, Acute Health Hazard, Chronic Health
	Hazard.
SARA 312	Fire Hazard, Acute Health Hazard, Chronic Health
	Hazard.
SARA 313	Listed: Isopropyl Alcohol (mfg-strong acid
	process).
WHMIS Canada	Class B2: Flammable and combustible material –
	Flammable liquid.
	Class D2B: Poisonous and infectious material –
	Other effects – Toxic.

Revised on 02/28/2022 Page 6 of 7

16. OTHER INFORMATION

Revision	Date
Original	07-13-2011
Revision 1	10/17/2013
Revision 2	01/14/2015
Revision 3	12/20/2017
Revision 4	02/28/2022

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Revised on 02/28/2022 Page 7 of 7