



**Isopropyl Alcohol 70%**

---

**1. PRODUCT AND COMPANY IDENTIFICATION**

---

**Product Name:** Isopropyl Alcohol 70%

**Synonyms/Generic Names:** 2-Propanol, 70%; Isopropanol, 70%; Isopropyl Rubbing Alcohol

**Product Number:** IPA70

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer:** Blue Ridge Elements, LLC.  
3730 Old Tasso Rd NE  
Cleveland, TN. 37312

**For More Information Call:** 423-693-0801 (Monday-Friday 8:00-4:30)

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

---

**2. HAZARDS IDENTIFICATION**

---

**OSHA Hazards:** Flammable liquid, Target organ effect, Irritant

**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:**

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

**Precautionary Statements:**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Potential Health Effects**

<b>Eyes</b>	Causes eye irritation.
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**NFPA Ratings**

<b>Health</b>	1
<b>Flammability</b>	3
<b>Reactivity</b>	0
<b>Specific hazard</b>	Not Available

**HMIS Ratings**

<b>Health</b>	1
<b>Fire</b>	3
<b>Reactivity</b>	0
<b>Personal</b>	E

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Isopropyl Alcohol	70	67-63-0	200-661-7	CH <sub>3</sub> CHOHCH <sub>3</sub>	60.10 g/mol
Water	30	7732-18-5	231-791-2	H <sub>2</sub> O	18.00 g/mol

**4. FIRST-AID MEASURES**

<b>Eyes</b>	In case of eye contact, rinse with plenty of water and seek medical attention.
<b>Inhalation</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Skin</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
<b>Ingestion</b>	<b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable (and unsuitable) extinguishing media</b>	Flammable in the presence of a source of ignition when the temperature is above the flash point. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool containers with water.
<b>Special protective equipment and precautions for firefighters</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
<b>Specific hazards arising from the chemical</b>	Emits toxic fumes (carbon oxides) under fire conditions. (See also Stability and Reactivity section).

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions</b>	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
<b>Methods and materials for containment and cleaning up</b>	Neutralize spill. Absorb spill with noncombustible absorbent 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 regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Isopropyl Alcohol	200 ppm 492 mg/m <sup>3</sup>	TLV	ACGIH
	400 ppm 984 mg/m <sup>3</sup>	STEL	ACGIH
	400 ppm 980 mg/m <sup>3</sup>	PEL	OSHA
	400 ppm 980 mg/m <sup>3</sup>	REL	NIOSH
	500 ppm 1225 mg/m <sup>3</sup>	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

<b>Eyes</b>	Wear chemical safety glasses or goggles.
<b>Inhalation</b>	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
<b>Skin</b>	Wear nitrile or rubber gloves, apron or lab coat.
<b>Other</b>	Not Available

### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Appearance (physical state, color, etc.)	Clear, colorless liquid.
Odor	Alcohol-like.
Odor threshold	Highest known value: 22 ppm
pH	Neutral
Melting point/freezing point	-88.5°C (-127.3°F)
Initial boiling point and boiling range	82.5°C (180.5°F)
Flash point	CLOSED CUP: 18.3°C (64.9°F)
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	LOWER: 2% UPPER: 12.7%
Vapor pressure	Not Available
Vapor density	Not Available
Density	0.84 (Water = 1)
Solubility (ies)	Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	399°C (750.2°F)
Decomposition temperature	Not Available

---

## 10. STABILITY AND REACTIVITY

---

<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	Aluminum, acids, oxidizing agents, halogenated compounds, acid anhydrides.
<b>Hazardous Decomposition Products</b>	Carbon oxides.

---

## 11. TOXICOLOGICAL INFORMATION

---

### Acute Toxicity

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

### Carcinogenicity

<b>IARC</b>	3-Group 3: Not classifiable as to its carcinogenicity to humans (Isopropyl Alcohol).
<b>ACGIH</b>	A4: Not classifiable as a human carcinogen (Isopropyl Alcohol).
<b>NTP</b>	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.
<b>OSHA</b>	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

<b>Skin</b>	Irritation, redness, itchiness.
<b>Eyes</b>	Irritation, redness, watering eyes, itchiness.
<b>Respiratory</b>	Irritation, coughing, wheezing, dizziness, drowsiness.
<b>Ingestion</b>	Irritation, nausea, vomiting, diarrhea, dizziness, drowsiness.

<b>Chronic Toxicity</b>	May cause damage to the following organs: kidneys, liver, skin, central nervous system.
<b>Teratogenicity</b>	Not Available
<b>Mutagenicity</b>	Not Available
<b>Embryotoxicity</b>	Not Available
<b>Specific Target Organ Toxicity</b>	Not Available
<b>Reproductive Toxicity</b>	Classified Reproductive system/toxin/female. Development toxin.
<b>Respiratory/Skin Sensitization</b>	Not Available

---

## 12. ECOLOGICAL INFORMATION

---

### Ecotoxicity

<b>Aquatic Vertebrate</b>	Not Available
<b>Aquatic Invertebrate</b>	Not Available
<b>Terrestrial</b>	Not Available

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

---

## 13. DISPOSAL CONSIDERATIONS

---

<b>Waste Residues</b>	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 container.
<b>Product Containers</b>	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 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, pg III
TDG	UN1219, ISOPROPANOL, 3, pg II, pg III
IMDG	UN1219, ISOPROPANOL, 3, pg II, pg III
Marine Pollutant	No
IATA/ICAO	UN1219, Isopropanol, 3, pg II, pg III

---

## 15. REGULATORY INFORMATION

---

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not listed
SARA 311	Isopropyl Alcohol
SARA 312	Isopropyl Alcohol
SARA 313	Listed: Isopropyl Alcohol
WHMIS Canada	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects(TOXIC).

---

## 16. OTHER INFORMATION

---

Revision	Date
Revision 1	02-25-2017
Revision 2	10-24-2023

Disclaimer: Blue Ridge Elements, LLC believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Blue Ridge Elements, LLC has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. BLUE RIDGE ELEMENTS, LLC MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.