



Safety Data Sheet  
**Isopropyl Alcohol 99%**

## SECTION 1: Identification

### 1.1 GHS Product identifier

Product name Isopropyl Alcohol 99%

### 1.2 Other means of identification

IPA, ISOPROPANOL, 2-PROPANOL

### 1.3 Recommended use of the chemical and restrictions on use

For laboratory and manufacturing use only.

### 1.4 Supplier's details

Name High Purity Products  
Address 14546 N. Lombard Street  
Portland OR 97203  
United States of America

Telephone 503-227-1616  
email [help.desk@highpp.com](mailto:help.desk@highpp.com)

### 1.5 Emergency phone number

CHEMTREC: 1-800-424-9300

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: OSHA (29 CFR 1910.1200)**

- Flammable Liquid, Cat. 2
- Acute toxicity, oral, Cat. 4
- Eye irritation, Category 2A
- Target Organ Toxicity (Single Exposure)

### 2.2 GHS label elements, including precautionary statements

**Pictogram**

# Safety Data Sheet

## Isopropyl Alcohol 99%



### Signal word

**Danger**

### Hazard statement(s)target

H227

Highly flammable liquid and vapors

H302

Harmful if swallowed

H319

Causes serious eye irritation

H336

May cause drowsiness or dizziness

### Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P240:

Ground and bond container and receiving equipment.

P241:

Use explosion-proof equipment.

P242:

Use non-sparking tools.

P243:

Take action to prevent static discharges.

P261

Avoid breathing vapors

P624

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P405

Store locked up.

## SECTION 3: Composition/information on ingredients

### 3.1 Mixture

Constituents	CAS Number	Concentration (Weight)
IPA	67-63-0	99 - 100%

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

If inhaled

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

In case of skin contact

Flush skin with water while removing contaminated clothing. If irritation occurs, get medical attention. Do not reuse clothing or shoes until cleaned.

In case of eye contact

Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

If swallowed

Rinse mouth with water. Do not induce vomiting; get medical attention.

### Most important symptoms and effects, both acute and delayed

**Acute effects:** Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin). Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.

## SECTION 5: Fire-fighting measures

# Safety Data Sheet

## Isopropyl Alcohol 99%

### 5.1 Suitable extinguishing media

Use water fog, "alcohol" foam, dry chemical, or CO2.

### 5.2 Specific hazards arising from the chemical

When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

### 5.3 Special protective actions for fire-fighters

WARNING! Combustible Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

## SECTION 6: Accidental release measures

### 6.1 General Procedures:

WARNING. Combustible. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

## SECTION 7: Handling and storage

### 7.1 General procedures:

Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

### 7.2 Precautions for safe handling:

Avoid contact with skin and eyes. Do not inhale vapors. Keep away from heat and open flame. Wash thoroughly with soap and water after handling. Store tightly closed containers in cool, dry place.

#### Comments:

KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death. Observe all federal, state, and local regulations and National Fire Protection Association (NFPA) Codes with pertain to the specific local conditions of stage and use, including OSHA 29 CFR 1910.106 and NFPA 30, 70, 77, and 497.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Constituents	CAS Number	OSHA TWA
IPA	67-63-0	400 ppm

### 8.2 Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Personal Protective Equipment

**Eyes and Face:** Use chemical safety goggles and full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

## Safety Data Sheet

### Isopropyl Alcohol 99%

**Skin:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**Other use precautions:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid
Appearance	Clear Liquid
Color	Colorless
Odor	Strong odor
Odor threshold	No data available.
pH	N/A
Melting point/freezing point	-127°F
Boiling point or initial boiling point and boiling range	180 °F
Flash point	109 ° F
Evaporation rate	Slower than ether
Lower explosion limit / flammability limit	0.02%
Upper explosion limit / flammability limit	0.12%
Vapor Pressure	32 mmHg
Relative vapor density	Heavier than Air
Density and/or relative density	0.78
Solubility	Soluble
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	No data available.
<b>Particle characteristics</b>	No data available.

#### SECTION 10: Stability and reactivity

##### 10.1 Reactivity

None under normal use conditions.

##### 10.2 Chemical stability

Stable under recommended storage conditions.

##### 10.3 Possibility of hazardous reactions

No data available.

##### 10.4 Conditions to avoid

Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 deg. F.

##### 10.5 Incompatible materials

Strong oxidizers

##### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides and unidentified organic compounds may be formed during combustion.

**Safety Data Sheet**  
**Isopropyl Alcohol 99%**

**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute Toxicity**

Isopropyl Alcohol:

LC50 – inhalation – rate 16000 ppm/8H

LD50 – dermal – rabbit – 12800 mg/kg

LD50 – oral – mouse – 3600 mg/kg

**Skin corrosion/irritation**

May cause skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

Not classifiable as a human carcinogen.

**Reproductive toxicity**

Route/Organism: inhalation/rat

Dose: 10000 ppm/7H (1-19D Pregnant)

Effect: Reproductive: Effects on fertility: Pre- implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea); Reproductive: Effects on fertility: Post- implantation mortality (e.g., dead and/or resorbed implants per total number of implants); Reproductive: Effects on embryo or fetus: Fetal death

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**SECTION 12: Ecological information**

**Toxicity**

Isopropyl Alcohol:

EC50; Species: Daphnia magna (Water Flea) age <24 hr neonate; Conditions: freshwater, static, 21 °C, pH 7.6; Concentration: 114 mM for 24 hr; Effect: intoxication, immobilization

**Persistence and degradability**

Isopropanol was readily degraded in a variety of microbial degradation tests

**Bioaccumulative potential**

the potential for bioconcentration in aquatic organisms is low.

**Mobility in soil**

Isopropanol is expected to have very high mobility in soil

**SECTION 13: Disposal considerations**

Safety Data Sheet  
Isopropyl Alcohol 99%

Product disposal

Product disposal 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 or residue.

SECTION 14: Transport information

DOT (US)

UN Number: UN1219  
Class: 3  
Packing Group: II  
Proper Shipping Name: Isopropanol

IMDG

UN Number: UN1219  
Class: 3  
Packing Group: II  
Proper Shipping Name: Isopropanol

IATA

UN Number: UN1219  
Class: 3  
Packing Group: II  
Proper Shipping Name: Isopropanol

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

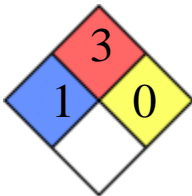
Canadian Domestic Substances List (DSL)

Chemical name: Isopropyl Alcohol

HMIS Rating

Isopropyl Alcohol 99%	
HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G

NFPA Rating



<b>SECTION 16: Other information</b>
--------------------------------------

**Disclaimer:**

\*\*\*\*\*

**High Purity Products provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. High Purity Products MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, High Purity Products WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.**

\*\*\*\*\*