

# SAFETY DATA SHEET

## ISOPROPYL ALCOHOL

### (2-Propanol)

#### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: CANUTEC 1-613-996-6666**  
**Chemical Name:** Isopropyl alcohol  
**Catalog Number:** ISO920/PRP001

#### SECTION 2 HAZARDS IDENTIFICATION

##### GHS Classification:

Flammable liquids (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Central nervous system.



**Signal Word: DANGER**

##### Hazard Statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

##### Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

**EMERGENCY OVERVIEW: WARNING. FLAMMABLE LIQUID and VAPOR. MAY BE HARMFUL IF SWALLOWED, ABSORBED OR INHALED.**

##### Effects of Acute Exposure:

**Routes of entry:** Eyes, skin, inhalation, Ingestion.

**Target Organs:** Liver, Central Nervous System, kidneys, eyes.

**Eyes:** Cause eye irritation, redness and corneal injury. Vapors may cause irritation.

**Skin:** May cause skin irritation. Absorbed through skin. Allergic reactions possible.

**Ingestion:** May cause GI irritation, vomiting and diarrhea. May cause kidney damage.

**Inhalation:** May cause dermatitis.

**CHRONIC:** Prolonged exposure may cause damage to kidneys.

#### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Isopropyl alcohol (2-propanol)	67-63-0	99%

**Molecular Formula:** C<sub>3</sub>H<sub>8</sub>O<sub>0</sub>

**Molecular Weight:** 60.9

#### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water, GET MEDICAL ATTENTION. Do not rub eyes.

**Skin:** In case of contact, flush area immediately with water.

**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.

**Ingestion:** Wash mouth with water. DO NOT INDUCE vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

#### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Vapors may form explosive mixture with air. Vapors can spread along the ground and create new sources of ignition and flash back. Use water spray to cool fire-exposed containers.

**Flash Point:** 18C

**Autoignition Temperature:** 399C

**Explosion limits:** Lower: 20vol %, Upper 1.7% @ 93.3 C

**Extinguishing Media:** Small fires: Use water spray, foam, dry chemical or carbon dioxide. Large fires: use alcohol resistant foam.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Absorb spill with inert material like vermiculite. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

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**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Remove all sources of ignition. Reduce vapor and avoid ignition sources. Use non-combustible material to absorb liquid such as sawdust or vermiculite

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not cut, weld or expose empty containers to any ignition source. Use adequate ventilation. Ground and bond containers when transferring material.

**Storage Conditions:** Keep away from heat and potential ignition sources. Keep in well ventilated area. Keep containers tight.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Limits:

NIOSH: 400 ppm TWA; 30 Mg/m<sup>3</sup> TWA ,2000 ppm IDLH

ACGIH: 200 ppm; 400 STEL

OSHA: 40ppm; 980 mg/m<sup>3</sup> TWA

Eyes: wear chemical splash goggles.

Skin: wear rubber gloves and apron

Clothing: wear appropriate clothing to prevent exposure.

Respirators: OSHA approved : 29CFR 1910.134 or

European EN 149.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Appearance and Odor:** clear, colorless, odor : alcohol like

**Freezing/Melting Point:** -88°C

**Boiling Point:** 82°C

**Specific Gravity/Density:** 0.9450

**Vapor pressure:** 33 Hg@ 20C

**Vapor Density:** 2.1

**Evaporation rate:** 1.7

**Water Solubility:** miscible

**Specific gravity:** 0.7850

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure

**Conditions to avoid:** ignition sources, high temperatures, confined spaces.

**Incompatibility:** Oxidizing and reducing agents, acids and alkali metals.

Ethylene oxides, chlorine. Incompatible with some plastics and rubbers

**Hazardous Decomposition Products:** carbon monoxide, carbon dioxide

**Hazardous Polymerization:** has not been reported.

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Toxicological Information:

Inhalation, mouse: LC50 =53,000 mg/m<sup>3</sup>/2H

Oral, mouse: LD50= 3600 mg/kg

Oral, rat: LD50= 2800mg/kg

Skin, rabbit: LD50 =5045 mg/kg

**Carcinogenicity:** Not listed by ACGIH, IARC, IOSH, NTP or OSHA

**Epidemiology:** no data

**Teratogenicity:** No data available

**Reproductive Effects:** no data.

**Neurotoxicity:** No data available

**Mutagenicity:** no data

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Ignitable waste. Observe all :, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

**TDG (Canada)**

UN number: 1219 Class: 3 Packing group: II

Proper shipping name: ISOPROPANOL

**IMDG**

UN number: 1219 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: ISOPROPANOL

**IATA**

UN number: 1219 Class: 3 Packing group: II

Proper shipping name: Isopropanol

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed

**European/International:** N/A

**Canada:**

**WHMIS Classification:** B2, D2B

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.

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