

SAFETY DATA SHEET

Isopropyl Alcohol 99%

SECTION 1. IDENTIFICATION

Product identifier	Isopropyl Alcohol 99%
Other identifiers	Isopropanol; 2-propanol; IPA; CAS 67-63-0
Recommended use	Industrial solvent, process chemical and cleaning agent where legally permitted.
Restrictions on use	Use only as directed. Not for beverage or human consumption.
Distributor / responsible party	Solvents USA 9436 W Lake Mead Blvd., Suite 5-1216 Las Vegas, NV 89134, USA
Business telephone	708-280-1184
24-hour emergency telephone	CHEMTREC: 800-424-9300 (United States/Canada)

SECTION 2. HAZARD(S) IDENTIFICATION

OSHA HCS classification	Flammable liquid - Category 2 Serious eye irritation - Category 2A Specific target organ toxicity, single exposure - Category 3 (narcotic effects)
Signal word	DANGER
Hazard statements	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.



FLAME



EXCLAMATION

Prevention	Keep away from heat, sparks, flames and hot surfaces. No smoking. Keep tightly closed. Ground and bond containers and transfer equipment. Use explosion-proof equipment and non-sparking tools. Prevent static discharge. Avoid breathing vapor or mist. Use only outdoors or with adequate ventilation. Wash thoroughly after handling. Wear protective gloves and eye/face protection.
Response	IF ON SKIN (or hair): Remove contaminated clothing and rinse skin with water/shower. IF INHALED: Move to fresh air and keep comfortable for breathing; call a poison center or doctor if unwell. IF IN EYES: Rinse cautiously with water for several minutes; remove contacts if easy and continue rinsing. If irritation persists, obtain medical attention. In case of fire use alcohol-resistant foam, dry chemical, carbon dioxide or water fog.
Storage	Store in a cool, well-ventilated place. Keep tightly closed. Store locked where required.
Disposal	Dispose under applicable federal, state and local requirements.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Isopropyl alcohol	At least 99% CAS 67-63-0 C ₃ H ₈ O
Other components	Water and/or trace impurities: balance; confirm against the supplier specification and shipment COA.
Important	This document is for 99% IPA. Do not use for diluted grades such as 70% or 91%.

SECTION 4. FIRST-AID MEASURES

Inhalation	Move to fresh air and keep comfortable for breathing. If symptoms persist, call a poison center or physician.
Skin contact	Remove contaminated clothing and rinse skin with water/shower. Wash clothing before reuse. Obtain medical attention if irritation persists.
Eye contact	Immediately rinse cautiously with water for at least 15 minutes. Remove contacts if easy and continue rinsing. Obtain medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or physician if unwell.
Symptoms/effects	Severe eye irritation; nose and throat irritation; headache, dizziness, drowsiness, nausea, impaired coordination and CNS depression at high exposure.
Medical treatment	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable media	Alcohol-resistant foam, dry chemical powder, carbon dioxide, water spray or fog.
Unsuitable media	Do not use a direct solid water stream.
Specific hazards	Highly flammable. Vapor may form explosive mixtures, travel and flash back. Containers may rupture when heated. Combustion can produce carbon oxides.
Firefighter protection	Wear positive-pressure SCBA and full protective clothing. Cool exposed containers from a protected position.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate unnecessary personnel. Eliminate ignition sources. Ventilate. Approach from upwind. Avoid breathing vapor. Use grounded, non-sparking equipment and Section 8 protection.
Environmental precautions	Prevent entry into drains, waterways, basements and confined spaces. Notify authorities when required.
Containment/cleanup	Stop leak if safe. Dike large spills. Use vapor-suppressing foam when appropriate. Absorb with dry earth, sand or other noncombustible material and place in closed, labeled containers.

SECTION 7. HANDLING AND STORAGE

Safe handling	Use adequate ventilation. Ground and bond containers, tanks, piping and transfer equipment. Avoid splash filling and static accumulation. Do not use compressed air. Empty containers retain flammable vapor; do not cut, weld, drill, grind or pressurize.
Storage	Store in a cool, dry, well-ventilated flammable-liquid area away from oxidizers, acids, heat and ignition sources. Keep tightly closed and upright. Protect drums and totes from damage.
Tanker/cargo tank transfer	Only trained personnel may load or unload. Verify product, capacity, hoses, valves and connections. Bond and ground, set brakes, chock wheels, attend continuously and prevent overflow.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL	400 ppm (980 mg/m ³), 8-hour TWA.
NIOSH REL	400 ppm TWA; 500 ppm STEL.
ACGIH TLV	200 ppm TWA; 400 ppm STEL. Confirm current published limits.
Biological monitoring	ACGIH BEI: acetone in urine, 40 mg/L, end of shift/end of workweek; consult current BEI documentation.
Engineering controls	Use process enclosure and explosion-proof local exhaust to maintain exposures below applicable limits. Provide eyewash and safety shower. Consider vapor monitoring for bulk operations.
Eye/face	Chemical splash goggles; face shield where splashing is possible.
Hands/skin	Chemical-resistant gloves and clothing selected using manufacturer permeation data.
Respiratory	Use a NIOSH-approved organic-vapor respirator under a compliant program when controls are insufficient; use supplied air or positive-pressure SCBA for high, unknown or IDLH concentrations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state / color	Clear, colorless liquid
Odor / threshold	Alcohol-like; odor threshold approximately 22 ppm
Melting/freezing point	Approximately -88.5 C (-127.3 F)
Boiling point	Approximately 82.5 C (180.5 F)
Flammability	Highly flammable liquid and vapor
Flammability limits	Approximately 2-13 vol%
Flash point	Approximately 12 C (54 F), closed cup
Auto-ignition	Approximately 399 C (750 F)
Decomposition temperature	No product data available
pH	Not applicable
Kinematic viscosity	Approximately 2.66 mm ² /s at 25 C
Water solubility	Completely miscible
Partition coefficient	log Pow approximately 0.05 at 25 C
Vapor pressure	Approximately 4.4 kPa at 20 C
Evaporation rate	Approximately 2.9 (n-butyl acetate = 1); confirm supplier method
Density / specific gravity	Approximately 0.785 at 20 C
Relative vapor density	Approximately 2.1 (air = 1)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction expected under normal conditions.
Stability	Stable under recommended storage conditions.
Hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Heat, flames, sparks, static discharge and temperatures above the flash point.
Incompatible materials	Strong oxidizers, strong acids, acid anhydrides, halogens and reactive metals.
Decomposition products	Carbon monoxide, carbon dioxide and irritating vapor during combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes	Inhalation, ingestion, skin and eye contact.
Acute effects	Causes serious eye irritation. High vapor concentrations may irritate the respiratory tract and cause headache, dizziness, drowsiness, nausea and CNS depression.
Skin	Prolonged or repeated contact may cause defatting, dryness, cracking or dermatitis.
Acute toxicity reference	Oral LD50 rat approximately 5,045 mg/kg; dermal LD50 rabbit approximately 12,800 mg/kg; inhalation LC50 rat approximately 16,000 ppm/4 h. Values are literature references, not mixture test results.
Sensitization/mutagenicity	Not classified based on available information.
Carcinogenicity	IARC Group 3 / not classifiable as to carcinogenicity to humans; not listed as a carcinogen by NTP or OSHA.
Reproductive toxicity	Not classified based on available information.
STOT	Single exposure Category 3: may cause drowsiness or dizziness. Repeated exposure not classified.
Aspiration hazard	Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Not classified as hazardous to the aquatic environment based on available information.
Persistence/degradability	Readily biodegradable.
Bioaccumulation	Low potential; log Pow is low.
Mobility	Completely miscible with water and expected to be mobile in soil.
Other effects	Large releases may deplete oxygen or otherwise harm aquatic systems; prevent environmental discharge.

SECTION 13. DISPOSAL CONSIDERATIONS

Recover or recycle where feasible. Dispose through an authorized contractor. Unused product may exhibit RCRA ignitability (D001); the generator must make the final determination. Empty drums, totes and cargo tanks may retain flammable vapor; do not cut, weld, drill, grind, pressurize or reuse unless properly cleaned and gas-freed.

SECTION 14. TRANSPORT INFORMATION

U.S. DOT	UN1219, Isopropanol, 3, PG II; Emergency Response Guide 129.
IATA/ICAO	UN1219, Isopropanol, 3, PG II. Current packing instructions and quantity limits apply.
IMDG	UN1219, ISOPROPANOL (ISOPROPYL ALCOHOL), 3, PG II; marine pollutant: No.
Packaging precautions	Drums, totes/IBCs and highway cargo tanks must be authorized, compatible, closed, marked, labeled/placarded and documented under current modal requirements.

SECTION 15. REGULATORY INFORMATION

OSHA HCS	Hazardous chemical under 29 CFR 1910.1200.
EPCRA 311/312	Flammable, serious eye irritation and specific target organ toxicity hazards.
EPCRA 313 / CAA	Isopropyl alcohol reporting/listing can be process-specific, including strong-acid-process manufacture. Solvents USA distributes finished product and does not manufacture it; confirm facility-specific obligations.
RCRA	Unused product may be characteristic hazardous waste D001.
TSCA	Isopropyl alcohol is listed on the TSCA Inventory.
California Proposition 65	No Proposition 65-listed ingredient is expected in reportable concentration based on standard 99% IPA composition; confirm the actual impurity profile and current list.

SECTION 16. OTHER INFORMATION

Preparation date	July 24, 2026
Revision	1.0 - Initial updated Solvents USA issue
Primary source	LyondellBasell IPA 99% source PDF dated November 23, 2021; embedded text was not reliably extractable
NFPA 704 reference	Health 1 Flammability 3 Instability 0

Distributor statement: Solvents USA distributes this product by direct shipment and does not manufacture, blend, handle or warehouse it.

Information is intended for hazard communication and is not a specification or warranty. Confirm the exact grade, assay, physical-property specification, impurity profile and current supplier classification before release. Qualified regulatory approval is recommended.

END OF SAFETY DATA SHEET