SAFETY DATA SHEET

Isopropyl Alcohol, Technical (Grade A)

Revised: 07/01/2026

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Isopropyl Alcohol, Technical (Grade A)
Synonyms: propan-2-ol
CAS Number: 67-63-0
Grade/Purity: Technical Grade A (TT-I-735A(3))
Product Type: Flammable Solvent (Liquid)
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Danger
GHS Pictograms:



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 and lighting equipment.
P242	Use non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves, eye protection and face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing.
P370+P378	In case of fire: Use alcohol-resistant foam, dry chemical, or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents and container in accordance with all applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
propan-2-ol	~99%	~99%	67-63-0	200-661-7	C_3H_8O	60.10 g/mol

4. FIRST-AID MEASURES

Eyes	Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do; continue rinsing. Get medical attention if irritation persists.
Skin	Remove contaminated clothing. Wash affected skin with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing before reuse.
Inhalation	Remove person to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms (drowsiness, dizziness, headache) persist.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention. Aspiration into the lungs is a hazard.

5. FIRE-FIGHTING MEASURES

Suitable Media	Alcohol-resistant foam, CO2, dry chemical powder. Water spray may be used to cool fire-exposed containers.
Unsuitable Media	Do not use a solid water stream — may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Combustion Products	May include carbon oxides and other toxic fumes. See Section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from: Strong oxidizers (nitric acid, chromium trioxide, peroxides), strong acids, aluminum (hot), acetaldehyde, isocyanates. Keep containers tightly closed. Ground and bond containers when transferring material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

AGENCY	EXPOSURE LIMIT
OSHA PEL	400 ppm (980 mg/m3) TWA
ACGIH TLV	200 ppm TWA; 400 ppm STEL
NIOSH REL	400 ppm (980 mg/m3) TWA; 500 ppm (1225 mg/m3) STEL
IDLH	2000 ppm (10% LEL)

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use a NIOSH-approved respirator with organic vapor cartridges. For confined spaces or exposures above the OEL, use supplied-air respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid
Odor	Characteristic alcohol (rubbing-alcohol) odor
Median Particle Size	Not Applicable

Particle Size Distribution	Not Applicable
Particle Shape	Not Applicable
Surface Area	Not Applicable
Dustiness	Not Applicable
Hygroscopicity	Not Applicable
pH	Not applicable (neutral organic solvent)
Melting Point	approx. -89 C
Boiling Point	approx. 82 C
Flash Point	approx. 12 C (closed cup)
Vapor Pressure	approx. 33 mmHg at 20 C
Specific Gravity	0.785 (20 C)
Solubility	Miscible with water
Molecular Formula	C_3H_8O
Molecular Weight	60.10 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	Vapours may form explosive mixtures with air; reacts vigorously with strong oxidizers (nitric acid, chromium trioxide, peroxides) with fire/explosion risk; may form unstable peroxides on prolonged storage or air exposure; can accumulate a static charge on transfer. Vapour is heavier than air and can travel to an ignition source and flash back.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong oxidizers (nitric acid, chromium trioxide, peroxides), strong acids, aluminum (hot), acetaldehyde, isocyanates
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See below for route-specific data.

ROUTE	VALUE
LD50 Oral	5045 mg/kg (rat, oral) - low acute oral toxicity, not classified
LD50 Dermal	12800 mg/kg (rabbit, dermal) - not classified
LC50 Inhalation	approx. 72.6 mg/L (rat, 4 h vapour) - not classified for acute inhalation

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC50: approx. 9640 mg/L (Pimephales promelas, 96 h) - not classified as aquatic-hazardous; Daphnia EC50: approx. 13299 mg/L (Daphnia magna, 48 h) - practically non-toxic [PubChem]
Persistence	Readily biodegradable; not persistent. Not classified for aquatic hazard (no H400/H410).
Bioaccumulation	BCF: Low (BCF ~1-3) - does not bioaccumulate
Mobility in Soil	High mobility in soil (Log Kow < 1)

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

TSCA: listed. SARA 313 (TRI): not listed (isopropyl alcohol reportable only when manufactured by the strong-acid process). CERCLA: no RQ. California Proposition 65: isopropyl alcohol not listed (the 'strong-acid manufacturing process' is a listed carcinogenic process, not the finished chemical). State Right-to-Know: listed in NJ, PA, MA. US DOT: Class 3, UN1219, PG II.	
SARA 311/312	See Section 2 for hazard classifications.

16. OTHER INFORMATION

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