

Safety Data Sheet

Section 1: Identification

Product Name: Isopropanol (IPA)

Synonyms: Isopropyl Alcohol; Propan-2-ol; 2-Propanol

CAS #: 67-63-0

Chemical Formula: C₃H₈O

Company: AllChem Industries ICG, Inc.
6010 NW First Place
Gainesville, FL 32607
Phone: 1-888-ALLCHEM

Emergency Number: CHEMTREC 800-424-9300

Recommended use: Industrial uses.

Restrictions on use: No data available.

Section 2: Hazard(s) Identification

GHS Label elements per the OSHA Hazard Communication Standard (29 CFR 1910.1200):

GHS Classification:	Category
Flammable liquid	2
Serious eye damage/irritation	2A
STOT – Single exposure; Narcotic effects	3

Pictograms:



Signal Word: **Danger**

Hazard statements:

Code	Description
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements:

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P261	Avoid breathing fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303, P361, P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 water spray, dry chemical, carbon dioxide, or alcohol resistant foam to extinguish.
P403, P233, P235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards: May react with oxygen in air to form peroxides.

Section 3: Composition/ Information on Ingredients

Chemical Name:	CAS Number	Concentration	EC Number
Isopropanol; IPA; Isopropyl Alcohol; Propan-2-ol; 2-Propanol	67-63-0	99.8 % – 100 %	200-661-7

Section 4: First Aid Measures

Inhalation: Remove to fresh air.
Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.
If not breathing, apply artificial respiration.
Do not use mouth-to-mouth method if victim ingested or inhaled the substance; use a pocket mask equipped with a one-way valve or other proper respiratory medical device.
If breathing is difficult, give oxygen provided a qualified individual is present.
Get medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel.
If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
If victim is conscious and alert, rinse mouth with water.

Never give anything by mouth to an unconscious person.
Get medical attention.

Skin Contact: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
Wash clothing before reuse or discard if they cannot be thoroughly cleaned.
Get medical attention if irritation persists.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do so.
Get medical attention.

Most important symptoms/effects

(acute and delayed): If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

Eye Contact: Burning sensation, redness, swelling, and/or blurred vision.

Skin Contact: Burning sensation, redness, or swelling.

Ingestion: May be harmful if swallowed and enters airways. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

Inhalation: Breathing of high concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination.
Continued inhalation may result in unconsciousness and death.

Note to Physician: Treat symptomatically and supportively.
Potential for chemical pneumonitis.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam.

Unsuitable Extinguishing Media: Solid water stream.

Other Information: Do NOT use solid water stream as it may spread fire.
Use water to cool exposed containers.
Containers may explode in the heat of a fire.
Move fire-exposed containers, if safe to do so.
Fire residues and contaminated water must be disposed of in accordance with local regulations.

Special Protective Equipment: Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.

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Specific Hazards:	Highly flammable liquid and vapor. Evacuate personnel upwind in-order to avoid inhalation of irritating/harmful fumes and smoke. Thermal decomposition may produce hazardous gases including, but not limited to carbon oxides. Dike fire control water for appropriate disposal. Runoff to sewer may create fire or explosion hazard. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Remove all sources of ignition. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Vapors may form explosive mixture with air.
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Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:	Wear personal protection equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Keep unnecessary personnel away and upwind. Remove all sources of ignition. Beware of vapors accumulated to form explosive concentrations. Take precautionary measures against static discharge.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter soil, ditches, sewers, waterways, or groundwater. Do not allow run-off or flushed material to enter surface water or sanitary system.
Methods and materials for containment and cleaning up:	See Section 7 for additional information. Absorb with inert materials and place into appropriate containers for disposal. Large spills should be collected mechanically for disposal. Allow residues to evaporate or wash residual traces with water and collect wash-water for proper disposal. A vapor suppressing foam may be used to reduce vapors. Notify appropriate authorities and dispose of in accordance with applicable requirements.

Section 7: Handling and Storage

Handling:	Wear personal protection equipment. Avoid contact with eyes, skin and clothing.
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Avoid ingestion and inhalation.
 Use only in well-ventilated area.
 Wash thoroughly after handling.
 Empty containers retain product residue (liquid and/or vapor), and can be dangerous.
 Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to sources of ignition.
 Ground and bond containers when transferring material to avoid static discharges.
 Use spark-proof tools and explosion-proof equipment.
 Take precautionary measures against static discharge.
 Do not use compressed air for filling, discharging or handling.
 After opening, purge container with nitrogen before reclosing.
 May react with oxygen in air to form peroxides.
 Do not evaporate/distill to near dryness since this may concentrate peroxides.

Storage: Store tightly closed container in a cool, dry, well-ventilated area.
 Keep away from heat, sparks, flame and other sources of ignition.
 Keep isolated from incompatible materials.
 Avoid extreme temperatures with minimum exposure to moisture, direct sunlight, and exposure to air.
 After opening the original packaging, storage under nitrogen atmosphere is recommended to minimize possible formation of peroxides.
 This product will absorb water if exposed to air.
Suitable packaging material: Mild steel, stainless steel, carbon steel, epoxy phenolic.
Non-suitable packaging material: Natural, butyl, neoprene or nitrile rubbers, aluminum.

Section 8: Exposure Controls/Personal Protection

Workplace Control Parameters:

Component	Cas No.	Basis	Value Type (Form of Exposure)	Control Parameter/ Permissible Concentration
Isopropyl Alcohol	67-63-0	OSHA PEL	TWA	400 ppm
Isopropyl Alcohol	67-63-0	NIOSH REL	STEL	500 ppm
Isopropyl Alcohol	67-63-0	NIOSH REL	Up to 10 hour TWA	400 ppm
Isopropyl Alcohol	67-63-0	ACGIH TLV	8 hour TWA	200 ppm
Isopropyl Alcohol	67-63-0	ACGIH TLV	STEL	400 ppm

Biological Occupational Exposure Limits:

Component	Cas No.	Control Parameters	Biological Specimen	Sampling Time	Permissible Concentration	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at end of work week	40 mg/l	ACGIH BEI

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
An emergency eye wash/shower must be readily accessible to the work area.

Personal Protective Equipment:

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. In confined areas, use a self-contained breathing apparatus.

Skin Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.
Recommended glove material: Butyl rubber, nitrile rubber.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, colorless
Odor:	Alcohol-like Odor Threshold: 22 ppm
Melting Point/Freezing Point:	-88 °C
Boiling Point:	82 °C
Flammability	Highly flammable liquid and vapor
Lower and Upper Explosion Limit:	Lower Explosion Limit: 2 % (V) Upper Explosion Limit: 12 % (V)
Flash Point:	12 °C
Auto-ignition Temperature:	399 °C
Decomposition Temperature:	No data available
pH:	No data available
Kinematic Viscosity:	No data available
Solubility:	Completely miscible in water
Partition coefficient: n-Octanol/water:	log Pow: 0.05
Vapor Pressure:	4.1 kPa (20 °C)
Relative Density (water=1):	0.78 (20 °C)
Relative Vapor Density (air=1):	2.0 (20 °C)
Particle Characteristics:	No data available
Molecular Weight:	60.10 g/mol

Section 10: Stability and Reactivity

Reactivity:	None reasonably foreseeable.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	May react with oxygen in air to form peroxides. Vapors may form explosive mixture with air.
Conditions to Avoid:	Avoid heat, sparks, open flames and other sources of ignition. Take precautions against static discharge. Hygroscopic; avoid exposure to moisture. Keep away from direct sunlight. Avoid extremely high or low temperatures. Avoid prolonged exposure to the air. Do not evaporate/distill to near dryness since this may concentrate peroxides.
Incompatible Materials:	Strong oxidizing agents, reducing agents, combustibles, alkanolamines, caustics.
Hazardous Decomposition Products:	Carbon oxides, sulfur oxides, unidentified organic compounds.

Section 11: Toxicological Information**Potential Health Effects:**

Inhalation:	Inhalation of high concentrations may cause: Central nervous system depression, headache, nausea, vomiting, loss of coordination. May cause drowsiness and dizziness. May cause respiratory irritation.
Skin Contact:	Prolonged or repeated exposure to skin may cause defatting and dermatitis. May cause skin irritation. May be absorbed through the skin.
Eye Contact:	Causes serious eye irritation.
Ingestion:	May cause nausea, vomiting. May be harmful if swallowed.

Symptoms of Exposure:

Eye:	Pain or irritation, watering, redness.
Inhalation:	Nausea/vomiting, headache, drowsiness/dizziness, unconsciousness.
Ingestion:	Nausea/vomiting.
Skin:	Burning sensation, redness, swelling.

Immediate Effects: No data available.

Delayed Effects: No data available.

Interactive Effects: No data available.

Numerical Measures of Acute Toxicity:

<u>Route:</u>	<u>Test:</u>	<u>Subject:</u>	<u>Value:</u>	<u>Time:</u>
Dermal	LD ₅₀	Rabbit	> 5,000 mg/kg	
Inhalation (vapor)	LC ₅₀	Rat	> 25,000 mg/m ³	6 hours
Oral	LD ₅₀	Rat	> 5,000 mg/kg	

Additional Information:

RTECS #:	NT8050000
Aspiration toxicity:	May be harmful if swallowed and enters airways.
Carcinogenicity:	This product is not classified as a carcinogen by IARC or NTP or OSHA.
Germ cell mutagenicity:	Not classified based on available information.
Reproductive toxicity:	Not classified based on available information.
Sensitization:	Not classified based on available information.
Serious eye damage/irritation:	Causes serious eye irritation.
Skin corrosion/irritation:	Not classified based on available information.
STOT- Repeated Exposure:	Not classified based on available information.
STOT-Single Exposure:	May cause drowsiness or dizziness.

Section 12: Ecological Information

Ecotoxicity:

<u>Group:</u>	<u>Subject:</u>	<u>Test:</u>	<u>Value:</u>	<u>Time:</u>
Fish	Pimephales promelas	LC ₅₀	9,640 mg/l	96 hours
Aquatic invertebrates	Daphnia magna	EC ₅₀	5,102 mg/l	24 hours
Aquatic plants	Scenedesmus quadricauda	EC ₅₀	1,800 mg/l	7 days

Persistence and Degradability: Readily Biodegradable.

Bioaccumulative Potential: Low potential for bioaccumulation.

Mobility in Soil: Potential for mobility in soil is high.

Other adverse effects: No data available.

Section 13: Disposal Considerations

Sustainability: When appropriate, consider reusing and recycling as alternatives to disposal.

Packaging: Empty containers may retain product residue, follow label warnings even after container is emptied.

Disposal: Dispose of according to Federal, State, and Local Regulations

Section 14: Transportation Information

Transportation requirements and classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations. The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

DOT (49 CFR) Transport Information

UN #:	UN1219
Proper shipping Name:	Isopropanol
Transport Hazard Class:	3
Packing Group:	II
Marine Pollutant:	No
Labels & Placards:	FLAMMABLE

IATA (ICAO) Transport Information

UN #:	UN1219
Proper shipping Name:	Isopropanol
Transport Hazard Class:	3
Packing Group:	II
Labels & Placards:	FLAMMABLE

IMDG (IMO) Transport Information

UN #:	UN1219
Proper shipping Name:	ISOPROPANOL
Transport Hazard Class:	3
Packing Group:	II
Marine Pollutant:	No
Labels & Placards:	FLAMMABLE
EmS #	F-E, S-D

Section 15: Regulatory Information

US Federal - TSCA: This product is listed on the TSCA active inventory.

California – Prop 65: This product is not subject to the State of California's Proposition 65 regulations.

Section 16: Other Information

Revision Date: January 1, 2026

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AllChem be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AllChem has been advised of the possibility of such damages.