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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Isopropyl Alcohol (IPA)	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	Isopropyl Alcohol (IPA)
Synonyms	Isopropanol; 2-Propanol; sec-Propyl alcohol
CAS No.	67-63-0
EC No.	200-661-7
Molecular formula	C3H8O
Molecular weight	60.10 g/mol
Relevant identified uses	Industrial solvent; cleaning agent for electronics and precision parts; disinfectant; chemical intermediate
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3 (Narcotic effects)
Pictogram(s)	GHS02 (Flame); GHS07 (Exclamation mark)
Signal word	Danger
Hazard statement(s)	H225 Highly flammable liquid and vapor H319 Causes serious eye irritation H336 May cause drowsiness or dizziness
Precautionary statement(s)	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

Other hazards	Vapors may form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

Component	2-Propanol (Isopropyl alcohol)
CAS No.	67-63-0
EC No.	200-661-7
Classification	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336
Concentration (%)	≥99.9%

SECTION 4: First aid measures

If inhaled	Remove to fresh air. If not breathing, give artificial respiration. Call a physician.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.
In case of eye contact	Rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Call an ophthalmologist.
If swallowed	Immediately make victim drink water (two glasses at most). Do not induce vomiting. Consult a physician.
Most important symptoms and effects	Serious eye irritation; drowsiness or dizziness; narcosis.
Indication of any immediate medical attention	Treat symptomatically. Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

Suitable extinguishing media	Dry chemical, carbon dioxide (CO2), alcohol-resistant foam, water spray
Unsuitable extinguishing media	Do not use water jet.
Special hazards arising from the chemical	Carbon oxides. Vapors are heavier than air and may spread along floors; pay attention to flashback. Forms explosive mixtures with air at ambient temperatures.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing for firefighting. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

Personal precautions, protective	Use personal protective equipment. Avoid breathing vapors, mist or gas.

equipment and emergency procedures	Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations.
Environmental precautions	Do not let product enter drains. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, vermiculite). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling	Keep away from heat, sparks, open flames and hot surfaces. No smoking. Use explosion-proof equipment and non-sparking tools. Take measures against static discharge. Avoid contact with skin and eyes. Avoid breathing vapor. Use only in well-ventilated areas.
Conditions for safe storage, including any incompatibilities	Store in a cool, well-ventilated place. Keep container tightly closed. Keep away from strong oxidizing agents, acids, acid anhydrides and aluminum.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	ACGIH TLV: TWA 200 ppm, STEL 400 ppm; China PC-TWA: 350 mg/m3, PC-STEL: 700 mg/m3
Biological limit values	None established
Appropriate engineering controls	Ensure adequate ventilation. Provide eyewash stations and safety showers close to the workstation.
Eye/face protection	Wear tightly fitting safety goggles/face shield.
Skin protection	Wear suitable protective gloves (e.g. butyl rubber, nitrile rubber).
Body protection	Wear appropriate protective clothing to prevent skin contact.
Respiratory protection	Where ventilation is inadequate, wear a suitable respirator with organic
Thermal hazards	Not applicable

SECTION 9: Physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Alcohol-like
Melting point / freezing point	-89.5 °C

Boiling point or initial boiling point and boiling range	82 °C
Flammability	Highly flammable liquid and vapor
Lower and upper explosion limit / flammability limit	Lower: 2 % (V); Upper: 13.4 % (V)
Flash point	12 °C - closed cup
Auto-ignition temperature	425 °C
Decomposition temperature	Distillable in an undecomposed state at normal pressure
pH	Neutral at 20 °C
Kinematic viscosity	ca. 2.8 mm2/s at 20 °C (dynamic viscosity: 2.2 mPa·s)
Solubility	Miscible with water at 20 °C; miscible with most organic solvents
Partition coefficient n-octanol/water	log Pow: 0.05
Vapour pressure	43 hPa at 20 °C
Density and/or relative density	0.785 g/cm3 at 20 °C
Relative vapour density	2.07 (Air = 1.0)
Particle characteristics	Not applicable (liquid)

SECTION 10: Stability and reactivity

Reactivity	Reacts violently with strong oxidizing agents
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixtures with air
Conditions to avoid	Heat, flames, sparks and other ignition sources; static discharge
Incompatible materials	Strong oxidizing agents, acids, acid anhydrides, aluminum
Hazardous decomposition products	Carbon oxides

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat: 5,840 mg/kg LC50 Inhalation - Rat - 4 h: > 25 mg/L (vapor) LD50 Dermal - Rabbit: 12,800 mg/kg
Skin corrosion/irritation	Rabbit - slight irritation; not classified
Serious eye damage/irritation	Causes serious eye irritation

Respiratory or skin sensitization	Not a skin sensitizer (guinea pig)
Germ cell mutagenicity	Negative (Ames test, in vitro and in vivo assays)
Carcinogenicity	IARC: Group 3 (not classifiable as to its carcinogenicity to humans)
Reproductive toxicity	No adverse effects on reproduction in animal studies at relevant doses
STOT - single exposure	May cause drowsiness or dizziness (Central nervous system)
STOT - repeated exposure	Not classified (based on available data)
Aspiration hazard	Not classified

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	Fish: LC50 - Pimephales promelas - 9,640 - 10,400 mg/L - 96 h; Daphnia: EC50 - Daphnia magna - > 10,000 mg/L - 24 h (5,102 mg/L - 48 h); Algae: EC50 - Desmodesmus subspicatus - > 1,000 mg/L - 72 h
Persistence and degradability	Readily biodegradable (53% in 5 d; > 90% in 28 d)
Bioaccumulative potential	No significant bioaccumulation potential (log Pow: 0.05)
Mobility in soil	Very high mobility in soil (highly water soluble, low log Koc)
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Offer surplus and non-recyclable product to a licensed disposal company. Dispose of in accordance with local and national regulations.
Contaminated packaging	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	UN 1219
UN Proper Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)
Transport hazard class(es)	3
Packing group	II
Environmental hazards (Marine pollutant)	No
Special precautions for user	EmS Code: F-E, S-D

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	EINECS: Listed (200-661-7) / TSCA: Listed / IECSC: Listed / China Catalog of Hazardous Chemicals 2015: Listed

SECTION 16: Other information

Full text of H-Statements	H225 Highly flammable liquid and vapor H319 Causes serious eye irritation H336 May cause drowsiness or dizziness
Revision date	2026-10-29
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.