

# SAFETY DATA SHEET

## Isopropyl alcohol

Taizhou Ruibai Chemical Co.,Ltd

● According to GHS (Eighth Revised Edition)

# SDS

### Section 1 Product and Company Identification

#### > Product Identifier

Product Name	Isopropyl alcohol
Synonyms	-
CAS No.	67-63-0
EC No.	200-661-7
Molecular Formula	C <sub>3</sub> H <sub>8</sub> O

#### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

#### > Details of the Supplier of the Safety Data Sheet

Applicant Name	Taizhou Ruibai Chemical Co.,Ltd
Application Address	No.6 Guihua Road, Yongan Town, Gaogang District, Taizhou City, Jiangsu,P.R. China
Applicant Post Code	225327
Applicant Telephone	+86-523-87535308
Applicant Fax	+86-520-87530018
Applicant E-mail	sales@ringchem.com
Supplier Name	Taizhou Ruibai Chemical Co.,Ltd
Supplier Address	No.6 Guihua Road, Yongan Town, Gaogang District, Taizhou City, Jiangsu,P.R. China
Supplier Post Code	225327
Supplier Telephone	+86-523-87535308
Supplier Fax	+86-523-87530018
Supplier E-mail	sales@ringchem.com

#### > Emergency Phone Number

Emergency Phone Number	+86-523-87535308
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### Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the eighth revised edition):

#### > GHS Hazard Class

Flammable Liquids	Category 2
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**Eye Damage/Irritation** Category 2A

**Specific Target Organ  
Toxicity (Single  
Exposure)** Category 3

### > GHS Label Elements

**Pictogram**



**Signal Word**

**Danger**

### > Hazard Statements

**H225** Highly flammable liquid and vapour

**H319** Causes serious eye irritation

**H336** May cause drowsiness or dizziness

### > Precautionary Statements

#### Prevention

**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 contact area thoroughly after handling.

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

**P280** Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

#### Response

**P319** Get medical help if you feel unwell.

**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**P337+P317** If eye irritation persists: Get medical help.

**P370+P378** In case of fire: Use suitable extinguishing medium to extinguish.

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas 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.

#### Storage

**P405** Store locked up.

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

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

#### Disposal

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Isopropyl alcohol	99.95	67-63-0	200-661-7

## Section 4 First Aid Measures

### > Description of First Aid Measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of First-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### > Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

### > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

## Section 5 Fire Fighting Measures

### > Extinguishing Media

<b>Suitable Extinguishing Media</b>	Dry chemical, carbon dioxide or alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter or spread fire.

### > Specific Hazards Arising from the Substance or Mixture

- 1 Will form explosive mixtures with air.
- 2 Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
- 3 Vapours may travel to source of ignition and flash back.
- 4 Liquid and vapour are flammable.
- 5 Containers may explode when heated.
- 6 Fire exposed containers may vent contents through pressure relief valves.
- 7 May expansion or decompose explosively when heated or involved in fire.

### > Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 Accidental Release Measure

### > Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Avoid breathing vapors and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

### > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

### > Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

### > Precautions for Handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

### > Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

## Section 8 Exposure Controls/Personal Protection

### > Control Parameters

#### Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	USA - OSHA	400	980	-	-
	South Korea	200	480	400	980
	Ireland	200	-	400	-
	Germany (AGS)	200	500	400	1000
	Denmark	200	490	400	980
	Australia	400	983	500	1230

**Biological Limit Values**

No information available

**Monitoring Methods**

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

**> Engineering Controls**

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

**> Personal Protection Equipment**

<b>Eye Protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
<b>Hand Protection</b>	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and Body Protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

**Section 9 Physical and Chemical Properties**

<b>Appearance:</b> colourless transparent liquid	<b>Odor:</b> No information available
<b>Odor Threshold:</b> No information available	<b>pH:</b> No information available
<b>Melting Point/Freezing Point (°C):</b> -90	<b>Initial Boiling Point and Boiling Range (°C):</b> 83
<b>Flash Point (°C)( Closed Cup):</b> 11.7	<b>Evaporation Rate:</b> No information available
<b>Flammability:</b> Not applicable	<b>Upper/lower explosive limits[%(v/v)]:</b> Upper limit: 12; Lower limit: 2
<b>Vapor Pressure (KPa):</b> 4.4	<b>Relative Vapour Density(Air = 1):</b> 2.1
<b>Relative Density(Water=1):</b> 0.78	<b>Solubility:</b> Miscible with water
<b>n-Octanol/Water Partition Coefficient:</b> 0.05	<b>Auto-Ignition Temperature(°C):</b> 456
<b>Decomposition Temperature (°C):</b> No information available	<b>Kinematic Viscosity (mm<sup>2</sup>/s):</b> No information available
<b>Particle characteristics:</b> Not applicable	

**Section 10 Stability and Reactivity**

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of Hazardous Reactions</b>	In contact with oxidants causes severe reactions, and may cause a fire or explosion.
<b>Conditions to Avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible Materials</b>	Oxidants, alkali metals, alkaline earth metals and aluminum.
<b>Hazardous Decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### > Acute Toxicity

Component	CAS No.	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)
Isopropyl alcohol	67-63-0	5045mg/kg(Rat)	12800mg/kg(Rabbit)	No information available

### > Skin Corrosion/Irritation

No information available

### > Serious Eye Damage/Irritation

Causes serious eye irritation(Category 2A)(Isopropyl alcohol)

### > Skin Sensitization

No information available

### > Respiratory Sensitization

No information available

### > Germ Cell Mutagenicity

No information available

### > Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	67-63-0	Isopropyl alcohol	Category 3	Not Listed

### > Reproductive Toxicity

No information available

### > Reproductive Toxicity (Additional)

No information available

### > STOT-Single Exposure

May cause drowsiness or dizziness(Category 3)(Isopropyl alcohol)

**> STOT-Repeated Exposure**

No information available

**> Aspiration Hazard**

No information available

**Section 12 Ecological Information****> Acute Aquatic Toxicity**

Component	CAS No.	Fish	Crustaceans	Algae
Isopropyl alcohol	67-63-0	LC <sub>50</sub> : 9640mg/L (96h)(Fish)	EC <sub>50</sub> : >1000mg/L (48h)	ErC <sub>50</sub> : >1000mg/L (72h)

**> Chronic Aquatic Toxicity**

Component	CAS No.	Fish	Crustaceans	Algae
Isopropyl alcohol	67-63-0	No information available	NOEC: >100mg/L	NOEC: 1000mg/L

**> Others****Persistence and Degradability**

No information available

**Bioaccumulative Potential**

No information available

**Mobility in Soil**

No information available

**Results of PBT and vPvB Assessment**

Isopropyl alcohol does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

**Section 13 Disposal Considerations****Waste Chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated Packaging Disposal**

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

**Recommendations**

Refer to Waste chemicals and Contaminated packaging.

**Section 14 Transport Information****Transporting Label****Marine pollutant**

None

<b>UN Number</b>	1219
<b>UN Proper Shipping Name</b>	ISOPROPANOL(ISOPROPYL ALCOHOL)
<b>Transport Hazard Class</b>	3
<b>Transport Subsidiary Hazard Class</b>	NONE
<b>Packing Group</b>	II

## Section 15 Regulatory Information

### > International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Isopropyl alcohol	√	√	√	√	√	√	√	√	√

- 【EINECS】 European Inventory of Existing Commercial Chemical Substances.
- 【TSCA】 United States Toxic Substances Control Act Inventory.
- 【DSL】 Canadian Domestic Substances List.
- 【IECSC】 China Inventory of Existing Chemical Substances.
- 【NZIoC】 New Zealand Inventory of Chemicals.
- 【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.
- 【KECI】 Existing and Evaluated Chemical Substances.
- 【AICS】 Australia Inventory of Chemical Substances.
- 【ENCS】 Existing And New Chemical Substances.

#### Note

“√” Indicates that the substance included in the regulations

“x” That no data or included in the regulations

## Section 16 Additional Information

<b>Creation Date</b>	2025/10/10
<b>Revision Date</b>	2025/10/10
<b>Reason for Revision</b>	-

### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.