

MATERIAL SAFETY DATA SHEET (MSDS)



Ryze Chemie

ISO-PROPYL ALCOHOL CAS No.: 67-63-0

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

1.1. Product identifier

Product form	:	Substance
Product name	:	Iso-propyl alcohol
Type of product	:	Solvents
Product Grades (Applicable)	:	AR/ACS, Certified dry, HPLC, GC, GC standard and LR
Product Code	:	700304M500 700304L2D5 600304M500 600304L2D5 800304M500 810304M250 830304M250 900304L001 900304L2D5
CAS No	:	67-63-0
Formula	:	C3H8O

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses	:	Industrial;For professional use only
1.2.2. Uses advised against	:	No additional information available

1.3. Details of the supplier of the safety data sheet

RYZE CHEMIE
Office no. 13, plot no. C-39A
Gami industrial park, TTC Industrial area
Thane, Maharashtra-400705
www.ryzchemie.com

1.4. Emergency Telephone Number

+91- 99-3006-04-04 :

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225

Serious eye damage/eye irritation, H319

Category 2

Specific target organ toxicity – Single exposure, Category 3, H336

Respiratory tract irritation

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Repr.Cat.1; R61

Repr.Cat.3; R62

Xn; R48/22

Xn; R48/22

R33

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye irritation.

2.2. Label Elements

Labelling according to Regulation (EC) No. 1907/2006 [CLP]

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P261 - Avoid breathing

dust/fume/gas/mist/vapours/spray.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : iso-PROPYL ALCOHOL
CAS No : 67-63-0
EC-No. : 200-661-7
EC Index-No. : 603-117-00-0

3.2. Mixture

Not applicable

SECTION 4: : First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if if you feel unwell.
First-aid measures after skin contact : Get immediate medical advice/attention. Wash with plenty of water/ Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : May cause drowsiness or dizziness.
Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.
Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing dust, fume, gas, mist, spray, vapours. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. On land, sweep or shovel into suitable containers. Collect spillage. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Avoid contact with skin and eyes. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid breathing dust, fume, gas, mist, spray, vapours. Do not eat, drink or smoke when using this product.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: NA
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place.
Packaging materials	: NA

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

Hand protection	:	Protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection		Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear liquid.
Molecular mass	:	60.1 g/mol
Colour	:	Clear Colorless.
Odour	:	alcoholic odour.
Odour threshold	:	No data available
pH	:	No data available
pH solution concentration	:	No data available
Relative evaporation rate	:	2.83
Melting point	:	Not applicable
Freezing point	:	-89 °C
Boiling point	:	82 °C
Flash point	:	12 °C
Auto-ignition temperature	:	399 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Flammable, Highly flammable liquid and vapour, Not applicable
Vapour pressure	:	43 hPa at 20 °C
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	2.1 g/cm³
Relative gas density	:	No data available
Solubility	:	Water: Miscible in water
Partition coefficient n-octanol/water (Log Pow)	:	0.05
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Lower explosive limit (LEL)	:	2 vol %
Upper explosive limit (UEL)		13.4 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: NA

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No additional information available
Ecology - Water	
Hazardous to the aquatic environment, short-term(acute)	: No additional information available
Hazardous to the aquatic environment, long-term (chronic)	: No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: NA
Product/Packaging disposal recommendations	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: NA

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: UN 1219
UN-No. (IMDG)	: UN 1219
UN-No.(IATA)	: UN 1219
UN-No.(ADN)	: UN 1219
UN-No. (RID)	: UN 1219

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IMDG)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IATA)	: Hydrochloric Acid
Proper Shipping Name (ADN)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (RID)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Transport document description (ADR)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II, (D/E)
Transport document description (IMDG)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II (12°C c.c.)
Transport document description (IATA)	: UN 1219 Isopropyl alcohol, 3, II
Transport document description (ADN)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II
Transport document description (RID)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3



IATA

Transport hazard class(es) (IATA)	:	3	
Hazard labels (IATA)	:	3	

ADN

Transport hazard class(es) (ADN)	:	3	
Hazard labels (ADN)	:	3	

RID

Transport hazard class(es) (RID)	:	3	
Hazard labels (RID)	:	3	

14.4. Packing group

Packing group (ADR)	:	II
Packing group (IMDG)	:	II
Packing group (IATA)	:	II
Packing group (ADN)	:	II
Packing group (RID)	:	II

14.5. Environmental hazards

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

14.6. Special precautions for user

Overland transport	:			
Classification code (ADR)	:	F1		
Special provisions (ADR)	:	601		
Limited quantities (ADR)	:	1 LT		
Excepted quantities (ADR)	:	E2		
Packing instructions (ADR)	:	P001, IBC02, R001		
Special packing provisions (ADR)	:	NA		
Mixed packing provisions (ADR)	:	MP19		
Portable tank and bulk container instructions (ADR)	:	T4		
Portable tank and bulk container special provisions (ADR)	:	TP1		
Tank code (ADR)	:	LGBF		
Vehicle for tank carriage	:	FL		
Transport category (ADR)	:	2		
Special provisions for carriage - Bulk (ADR)	:	S2, S20		
Special provisions for carriage - Loading, unloading and handling (ADR)	:	NA		
Special provisions for carriage - Operation (ADR)	:	NA		
Hazard identification number (Kemler No.)	:	33		
Orange plates	:	<table border="1"><tr><td>33</td></tr><tr><td>1219</td></tr></table>	33	1219
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Tunnel restriction code (ADR)	:	D/E
EAC code	:	•2YE
- Transport by sea		
Limited quantities (IMDG)	:	1 Lt
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T8
Tank special provisions (IMDG)	:	TP1
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-D
Stowage category (IMDG)	:	B
Flash point (IMDG)	:	12°C c.c
Properties and observations (IMDG)	:	Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12% Miscible with water.
MFAG-No	:	129
- Air transport		
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
PCA limited quantity max net quantity (IATA)	:	1Lt
PCA packing instructions (IATA)	:	353
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	364
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A180
ERG code (IATA)	:	3L
- Inland waterway transport		
Classification code (ADN)	:	F1
Special provisions (ADN)	:	601
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Equipment required (ADN)	:	PP, EX, A
Special provisions (AND)	:	VE01
Number of blue cones/lights (ADN)	:	1
- Rail transport		
Classification code (RID)	:	F1
Special provisions (RID)	:	601
Limited quantities (RID)	:	1 Lt
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02,R001
Mixed packing provisions (RID)	:	MP19
Special provisions (RID)	:	520
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions (RID)	:	TP1
Tank codes for RID tanks (RID)	:	LGBF
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	CE7
Hazard identification number (RID)	:	33

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

ISO-PROPYL ALOCHOL is not on the REACH Candidate List

ISO-PROPYL ALOCHOL is not on the REACH Annex XIV List

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Listed on the PIC list (Regulation EU 649/2012): Lead(II) acetate trihydrate

PIC Regulation (Prior Informed Consent)

Not listed on the POP list (Regulation EU 2019/1021)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list
(Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004
on the manufacture and the placing on market of certain substances used in the illicit manufacture
of narcotic drugs and psychotropic substances

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to
water
(Classification according to VwVwS, Annex 2; WGK No
238)

12th Ordinance Implementing the
Federal
Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident
Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not
allowed
to use the product.

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.