

## ISO PROPYL ALCOHOL

### 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

#### 1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

**Trade name:** ISO Propyl Alcohol

#### 1.2 IDENTIFICATION OF THE COMPANY:

RAR Resin & Chemical Industries JLT  
11th Floor, Jumeirah Lake Towers, P.O. Box: 47381, Dubai UAE  
Tel: +971 4 4356516 / +971 4 4356517 Email: info@rarresin.com  
Fax: +971 4 4356518 Website: www.rarresin.com

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization:**

**CAS No. Description:** 67-63-0 propan-2-ol

**Identification number(s)**

**EINECS Number:** 200-661-7

**Index Number:** 603-117-00-0

### 3 HAZARDS IDENTIFICATION

**Hazard description:**



*Xi Irritant*  
*F Highly flammable*

**Information concerning particular hazards for human and environment:**

R 11 Highly flammable.  
R 36 Irritating to eyes.  
R 67 Vapours may cause drowsiness and dizziness.

### 4 FIRST-AID MEASURES

**After Inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Generally the product does not irritate the skin.  
**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**After swallowing:** If symptoms persist consult doctor.

**DISCLAIMER**

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## 5 FIRE FIGHTING MEASURES

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** No special measures required.

## 6 ACCIDENTAL RELEASE MEASURES

**Person-related safety precautions:** Wear protective equipment. Keep unprotected person away.

**Measures for environmental protection:** Dilute with plenty of water.  
Do not allow to enter sewers / surface or ground water.

**Measures for cleaning / collecting:** Dilute with plenty of water.  
Ensure adequate ventilation.

## 7 HANDLING AND STORAGE

**Handling:**

**Information for safe handling:** No special requirement.

**Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**Storage:**

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Additional information about design of technical facilities:** No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:  
67-63-0 propan-2-ol

PEL (USA)	980 mg/m <sup>3</sup> , 400 ppm
REL (USA)	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm

**Additional information:** The lists valid during the making were used as basis.

### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

**Respiratory protection:** Not required.

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## Protection of hands:



*Protective gloves*

The glove material has to be impermeable and resistant to the product / the substance / the preparation. Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Eye protection:



*Tightly sealed goggles*

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### General Information:

<b>Form:</b>	Fluid
<b>Colour:</b>	Clear
<b>Odour:</b>	Alcohol-like

### Change in condition

**Melting point / Melting range:** -89.5°C

**Boiling point / Boiling range:** 82°C

**Flash point:** 13°C

**Ignition temperature:** 425°C

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

### Explosion limits:

**Lower:** 2 Vol %

**Upper:** 12 Vol %

**Vapour pressure at 20°C:** 43 hPa

**Density at 20°C:** 0.785 g/cm<sup>3</sup>

**Solubility in / Miscibility with:** 1 g/l

**water at 20°C**

**pH-value (4 g/l) at 20°C:** neutral

**Viscosity:**

**Dynamic:** 2.43 mPas

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## 10 STABILITY AND REACTIVITY

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions** No dangerous reactions known.

**Dangerous decomposition products:** No dangerous decomposition products known.

## 11 TOXICOLOGICAL INFORMATION

**Acute toxicity:**

**LD/LC50 values relevant for classification:**

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

## 12 ECOLOGICAL INFORMATION

**General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slight hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 DISPOSAL CONSIDERATIONS

**Product:**

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 TRANSPORT INFORMATION

**Land transport ADR / RID (cross-border)**



<b>ADR/RID class:</b>	3 Flammable liquids.
<b>Danger code (Kemler):</b>	33
<b>UN-Number:</b>	1219
<b>Packaging group:</b>	II
<b>Hazard label:</b>	3
<b>Description of goods:</b>	1219 ISOPROPANOL (ISOPROPYL ALCOHOL)

**Maritime transport IMDG:**



<b>IMDG Class:</b>	3
<b>UN Number:</b>	1219

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**Label:** 3  
**Packaging group:** II  
**EMS Number:** F-E, S-D  
**Marine pollutant:** No  
**Proper shipping name:** ISOPROPANOL (ISOPROPYL ALCOHOL)  
**Air transport ICAO-TI and IATA-DGR:**



**ICAO / IATA Class:** 3  
**UN / ID Number:** 1219  
**Label:** 3  
**Packaging group:** II  
**Proper shipping name:** ISOPROPANOL (ISOPROPYL ALCOHOL)

## 15 REGULATORY INFORMATION

### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Code letter and hazard designation of product:



*Xi Irritant*  
*F Highly flammable*

### Risk Phrases:

11 Highly flammable.  
36 Irritating to eyes.  
67 Vapours may cause drowsiness and dizziness.

### Safety phrases:

2 Keep out of the reach of children.  
7 Keep container tightly closed.  
16 Keep away from sources of ignition - No smoking.  
24/25 Avoid contact with skin and eyes.

## 16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department
- **Contact:** RAR Resin Technical Dept.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
MDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent