



Preparing for the New Era of Laboratories

# MATERIAL SAFETY DATA SHEET (MSDS)

According to regulation (EU) no.1907/2006

## **ISO-PROPYL ALCOHOL 70% AR**

PRODUCT CODE : B-3044

CAS No : 67-63-0

FORMULA :  $(\text{CH}_3)_2\text{CHOH}$

UN No : Not Applicable

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## ISO-PROPYL ALCOHOL 70% AR



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

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

- 1.1 Product Name** : ISO-PROPYL ALCOHOL 70% AR  
**Synonyms** : 2-Propanol 70%, Isopropanol 70%, IPA 70%  
**CAS No.** : 67-63-0  
**HS Code** : 2905 12 20  
**Chemical Formula** :  $(\text{CH}_3)_2\text{CHOH}$   
**Molecular Weight** : 60.10 g/mol  
**Product Code** : B-3044  
**Brand** : Labotiq  
**1.2 Manufacturer** : Labotiq  
**Address** : Jl.Terapi Raya AD2-Bumi Menteng Asri Bogor, Jawa Barat Indonesia – 16111  
**Website** : [www.labotiq.net](http://www.labotiq.net)  
**Email** : [labotiq.id@gmail.com](mailto:labotiq.id@gmail.com)  
**For information** : Phone : (+62-251) 839110, 8311662, Fax : (+62-251) 83135710  
**Emergency number** : +6281316894650  
**1.3 Application** : Laboratory chemicals, Manufacture of substances, General Chemical reagent

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Flammable liquids, (Category 2) H225: Highly flammable liquid and vapor.

Eye irritation, (Category 2) H319: Causes serious eye irritation.

Specific target organ toxicity – single exposure, (Category 3), Central nervous system H336: May cause drowsiness or dizziness.

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H225 -

Highly flammable liquid and vapour.

H319 -

Causes serious eye irritation.

H336 -

May cause drowsiness or dizziness.

Precautionary statement(s)

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.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## ISO-PROPYL ALCOHOL 70% AR



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : 2-Propanol, Isopropanol, IPA  
 Formula :  $(\text{CH}_3)_2\text{CHOH}$   
 Molecular weight : 60.10 g/mol  
 CAS-No. : 67-63-0  
 EC-No. : 200-661-7  
 Index-No. : 603-117-00-0

### 3.2 Mixture

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
2-Propanol CAS-No. 67-63-0 EC-No. 200-661-7 Index-No. 603-117-00-0	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 Concentration limits: $\geq 20\%$ : STOT SE 3, H336;	$\geq 70 - < 90\%$

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)**  
**ISO-PROPYL ALCOHOL 70% AR**

MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

**If swallowed**

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Dry powder Foam

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

**5.4 Further information**

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains. Risk of explosion

**6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

**6.4 Reference to other sections**

For disposal see section 13

# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

## **ISO-PROPYL ALCOHOL 70% AR**



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

##### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

##### **Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

##### **Hygiene measures**

Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.

#### **7.2 Conditions for safe storage, including any incompatibilities**

##### **Storage conditions**

Protected from light. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

##### **Storage class**

Storage class (TRGS 510): 3: Flammable liquids

#### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control parameters**

##### **Ingredients with workplace control parameters**

#### **8.2 Exposure controls**

##### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### **Personal protective equipment**

###### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

###### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## ISO-PROPYL ALCOHOL 70% AR



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

Full contact  
Material: Nitrile rubber  
Minimum layer thickness: 0,11 mm  
Break through time: 480 min  
Material tested: Dermatrill®

Splash contact  
Material: Nitrile rubber Minimum  
layer thickness: 0,11 mm  
Break through time: 480 min  
Material tested: Dermatrill®

### Body Protection

Flame retardant antistatic protective clothing.

### Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### Control of environmental exposure

Do not let product enter drains. Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Form: liquid
	Colour: colorless
Odour	characteristic
Odour Threshold	No data available
pH	at 20 °C neutral
Melting point/freezingpoint	No data available
Initial boiling point and boiling range	No data available
Flash point	ca.18 °C - DIN 51755 Part 1
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Upper explosion limit: 13,4 %(V) - (2-Propanol) Lower explosion limit: 2 %(V) - (2-Propanol)
Vapour pressure	ca.42 hPa at 20 °C
Vapour density	No data available
Density	0,85 g/cm <sup>3</sup> at 20 °C
Relative density	No data available
Water solubility	at 20 °C soluble
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

### 9.2 Other safety information

No data available

# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

## **ISO-PROPYL ALCOHOL 70% AR**



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Formation of peroxides possible.  
Vapors may form explosive mixture with air.

#### **10.2 Chemical stability**

Sensitivity to light  
Sensitive to air.  
The product is chemically stable under standard ambient conditions (room temperature)

#### **10.3 Possibility of hazardous reactions**

Risk of ignition or formation of inflammable gases or vapours with:  
Alkali metals, Alkaline earth metals, chromium(VI) oxide

Exothermic reaction with:  
Oxidizing agents, Aldehydes, Amines, fuming sulfuric acid, Iron, Nitric acid, Aluminum, Chlorine,  
Sodium hydrosulfide, Strong acids

Risk of explosion with:  
Chlorates, Phosgene organic, nitro compounds, hydrogen peroxide, nitrogen oxides, perchlorates

#### **10.4 Conditions to avoid**

Warming.

#### **10.5 Incompatible materials**

various plastics, Rubber, oils

#### **10.6 Hazardous decomposition products**

Peroxides  
In the event of fire: see section 5

### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

##### **Mixture**

##### **Acute toxicity**

Oral: No data available  
Symptoms: Possible symptoms:, mucosal irritations  
Dermal: No data available

##### **Skin corrosion/irritation**

No data available  
Serious eye damage/eye irritation  
Remarks: Mixture causes serious eye irritation.

##### **Respiratory or skin sensitization**

No data available

##### **Germ cell mutagenicity**

No data available

# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

## **ISO-PROPYL ALCOHOL 70% AR**



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

### **Specific target organ toxicity - single exposure**

Mixture may cause drowsiness or dizziness.

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

### **Additional Information**

Endocrine disrupting properties

Product: Assessment :

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Components**

#### **2-Propanol**

#### **Acute toxicity**

LD50 Oral - Rat - 5.840 mg/kg (OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 37,5 mg/l - vapor (OECD Test Guideline 403)

LD50 Dermal - Rabbit - 12.800 mg/kg

Remarks: (RTECS)

Skin corrosion/irritation Skin – Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

#### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Eye irritation (OECD Test Guideline 405)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

#### **Respiratory or skin sensitization**

Buehler Test - Guinea pig

Result: negative (OECD Test Guideline 406)

#### **Germ cell mutagenicity**

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Result: negative

Method: OECD Test Guideline 474

Species: Mouse - male and female - Bone marrow

Result: negative



**MATERIAL SAFETY DATA SHEET (SDS/MSDS)**  
**ISO-PROPYL ALCOHOL 70% AR**

MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

Inhalation, Oral - May cause drowsiness or dizziness. - Central nervous system Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute inhalation toxicity - Central nervous system

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**SECTION 12: Ecological information****12.1 Toxicity**

Mixture

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available

Components

2-Propanol

Toxicity to fish flow-through test

LC50 - Pimephales promelas (fathead minnow) - 9.640 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 13.299 mg/l - 48 h

Remarks: (IUCLID)

Toxicity to algae IC50 - Desmodesmus subspicatus (green algae) - > 1.000 mg/l - 72 h

Remarks: (IUCLID)

Toxicity to bacteria

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## ISO-PROPYL ALCOHOL 70% AR



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

EC5 - Pseudomonas putida - 1.050 mg/l - 16 h

Remarks: (Lit.)

### Endocrine disrupting properties

Product:

Assessment :

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No data available

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 1219

IMDG: 1219

IATA: 1219

### 14.2 UN proper shipping name

ADR/RID: ISOPROPANOL, SOLUTION

IMDG: ISOPROPANOL, SOLUTION

IATA: Isopropanol, SOLUTION

### 14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

#### Further information

No data available

## SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other information

### Full text of H-Statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

## **ISO-PROPYL ALCOHOL 70% AR**



MSDS Number : 0196

Date : Sept 5<sup>th</sup>, 2024

Version : 1.0

H336 May cause drowsiness or dizziness.

### **National Fire Protection Association (U.S.A.):**

Health: 2

Flammability: 3

Instability : 0

### **Further information**

*The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Labotiq shall not be held liable for any damage resulting from handling or from contact with the above product.*

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