
Material Safety Data Sheet

Product Name	Isopropyl alcohol 70% solution
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Isopropyl alcohol 70%**Synonyms:** 2- Propanol, Propan-2-ol, IPA 70% solution**CAS-No:** 67-63-0**EC-No.:** 200-661-7**Molecular Formula:** C₃ H₈ O

REACH Registration No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Relevant identified uses of the substance or mixture and uses advised against:**Recommended Use:** Laboratory chemicals**1.2. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad,
Email: info@finarchemicals.com
Web: www.finarchemicals.com
- **E-Mail Address** safety@finarchemicals.com; info@finarchemicals.com

1.3. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 - 40040085

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SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**

Flammable liquid, Category 2, H225

Eye irritation (Category 2), H319

Specific target organ toxicity- Single Exposure, Category 3, Central Nervous System, H336

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

2.2. Label Elements:**Labeling 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)**Prevention**

P210 : Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes.

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

Supplemental hazards Statement : None

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.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Isopropyl alcohol 70% solution

3.2. Mixtures:

Component	CAS-No	EC-No.	v/v %
Isopropyl alcohol	67-63-0	200-661-7	70%
Water	7732-18-5	231-791-2	30%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

- **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

- **If Contact with skin**

Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.

- **In case of eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

- **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. 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 information Available

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SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media:**

Suitable Extinguishing Media- Use Dry Chemical Powder & Dry Sand

Un-Suitable Extinguishing Media- Do Not Use Water Jet.

5.2. Special hazards arising from the substance or mixture:

Carbon oxides

5.3. Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further Information:

Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2. Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

(see section 13).

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition –

No smoking. Take measures to prevent the build-up of electrostatic charge.

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7.2. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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:

Components 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

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

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.

Body Protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

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Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental Exposure Controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties:**

- **Appearance:** Colorless
- **Physical State:** Liquid
- **Odour:** alcohol-like
- **pH:** No data available
- **Critical Temperature:** No data available
- **Vapor Pressure:** 43.2 hPa at 20 °C
58.7 hPa at 25 °C
- **Relative Density:** 0.785 g/cm³ at 25 °C
- **Vapour Density:** No data available
- **Auto Ignition Temperature:** 425 °C
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Odor Threshold:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** 2 % (V)
- **Upper Explosion Limit:** 13.4 % (V)
- **Boiling Point/Range:** 82°C
- **Flash Point:** 12.0 °C
- **Specific Gravity:** 0.785
- **Water Solubility:** Miscible

9.2. Other information:

Molecular Formula: C₃H₈O

Molecular weight: 60.1 g/mol

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No data available.

10.2. Chemical stability

Reacts with air to form peroxides.
 Stable under recommended storage conditions.
 Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides
 Other decomposition products - No data available
 In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral toxicity

LD50 Oral - Rat - 5.840 mg/kg
 (OECD Test Guideline 401)
 LC50 Inhalation - Rat - male and female - 4 h - 37,5 mg/l
 (OECD Test Guideline 403)
 LD50 Dermal - Rabbit - 12.800 mg/kg

Skin corrosion/irritation

Rabbit
 Result: No skin irritation

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(OECD Test Guideline 404)

Serious eye damage/eye irritation

Rabbit

Result: Eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitization

Buehler Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity

No data available

Ames test

Salmonella typhimurium

Result: negative

In vitro mammalian cell gene mutation test

Result: negative

OECD Test Guideline 474

Mouse - male and female - Bone marrow

Result: negative

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.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Inhalation, Oral - May cause drowsiness or dizziness.

Acute inhalation toxicity - Central nervous system

Specific target organ toxicity - repeated exposure

No data available.

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Aspiration hazard

No data available

11.2 Further Information

RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to:, Lung oedema, Pneumonia

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:**

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

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

Remarks: (Lit.)

12.2 Persistence and degradability:

Biodegradability

aerobic - Exposure time 5 d

Result: 53 % - Readily biodegradable.

(Directive 67/548/EEC, Annex V, C.6)

Theoretical oxygen demand (ThOD)

2.400 mg/g

Remarks: (Lit.)

Ratio BOD/ThBOD 49 %

Remarks: (IUCLID)

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12.3 Bioaccumulate potential:

No bioaccumulation is to be expected (log Pow <= 4).

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers.

No mixing with other waste. Handle uncleaned containers like the product itself.

Dispose of as unused product.

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	1219	1219	1219
14.2 Proper shipping name	ISO PROPANOL	Isopropanol	ISO PROPANOL
14.3 Class	3	3	3
14.4 Packing group	II	II	II
14.5 Environmentally hazardous	NO	NO	NO
14.6 Special precautions for user	No data available	No data available	No data available
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Not Relevant			

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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.

REACH - Restrictions on the manufacture, :
placing on the market and use of certain
dangerous substances, preparations and articles
(Annex XVII)

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 referred to under sections 2 and 3.**

H225 Highly flammable liquid and vapour.
H319 Causes Serious eye irritation.
H336 May cause drowsiness or dizziness.

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

Created: 31/08/2020

Disclaimer:

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