

Material Safety Data Sheet

Iso-propylol

Version .00

Revision Date 12.01.2007



1. Identification of the substance/preparation and of the company/undertaking

Trade name	Iso-propylol
Synonyms	Iso-propylol
Use	industrial use, Solvents
Company	Hitech Chemicals

2. Composition/information on ingredients

Preparation on the base:

propan-2-ol; isopropyl alcohol; isopropanol

content: 87.013 %W/W

CAS-No. 67-63-0

Symbol(s) F, Xi

Index-No. 603-117-00-0

R-phrase(s) -R11 -R36 -R67

EC-No. 200-661-7

ethanol; ethyl alcohol

content: 12.771 %W/W

CAS-No. 64-17-5

Symbol(s) F

Index-No. 603-002-00-5

R-phrase(s) -R11

EC-No. 200-578-6

For the full text of the R phrases mentioned in this Section, see Section 16.

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3. Hazards identification

Identification of the risks

R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

4. First aid measures

General advice	Victim to lie down in the recovery position, cover and keep him warm.
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses. Call a physician immediately.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

5. Fire-fighting measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	Flash back possible over considerable distance.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.

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7. Handling and storage

Handling

Safe handling advice Do not breathe vapours or spray mist. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection gloves suitable for permanent contact:
Material: butyl-rubber
Break through time: 4 h
Material thickness: 0.5 mm
unsuitable gloves
Material: Polyvinylchloride, leather, nitrile rubber/nitrile latex, natural rubber/natural latex

Eye protection Safety glasses with side-shields

Skin and body protection protective suit, Safety shoes

Hygiene measures Wash hands before breaks and immediately after handling the product.

Protective measures Wear suitable protective equipment.

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9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	aromatic pleasant acetone-like
pH	neutral
Melting point/range	-88.5 °C
Boiling point/range	78.4 °C
Flash point	14 °C; closed cup
Autoignition temperature	363 °C
Lower explosion limit	3.3 %(V)
Upper explosion limit	19 %(V)
Density	0.785 g/cm ³ ; 20 °C
Water solubility	completely miscible, completely soluble
Solubility in other solvents	Medium: Diethylether; completely soluble
Viscosity, dynamic	2.4 mPa.s
Relative vapour density	2.08

10. Stability and reactivity

Materials to avoid	Oxidizing agents, Acids and bases
Hazardous decomposition products	Carbon oxides

11. Toxicological information

Acute oral toxicity	Isopropyl alcohol: LD50 rat: 5,045 mg/kg; literature value Isopropyl alcohol: LD50 rabbit: 6,410 mg/kg; literature value Ethanol: LD50 rat: 7,060 mg/kg; literature value
Acute inhalation toxicity	Isopropyl alcohol: LC50 rat: 16,000 mg/l; literature value; 8 h Ethanol: LC50 rat: 66,000 mg/l; literature value; 4 h
Acute dermal toxicity	Isopropyl alcohol:

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LD50 rabbit: 12,800 mg/kg; literature value

Ethanol:

LDLo rabbit: 20,000 mg/kg; literature value

12. Ecological information

Ecotoxicity effects

Toxicity to fish

Isopropyl alcohol:

LC50 *Poecilia reticulata*: 7,060 mg/l; 7 d; literature value

Isopropyl alcohol:

LC50 *Pimephales promelas*: 9,640 mg/l; 96 h; literature value

Ethanol:

LC50 *Pimephales promelas*: 15,300 mg/l; 96 h; literature value

13. Disposal considerations

Product

Dispose of in accordance with local regulations.

Contaminated packaging

Store containers and offer for recycling of material when in accordance with the local regulations.

14. Transport information

ADR

UN-No.: 1987; Class: 3; Packaging group: II; F1; Description of the goods: ALCOHOLS, N.O.S.
(ethanol, iso-propanol)

RID

UN-No.: 1987; Class: 3; Packaging group: II; F1; Description of the goods: ALCOHOLS, N.O.S.
(ethanol, iso-propanol)

ADNR

UN-No.: 1987; Class: 3; Packaging group: II; F1; Description of the goods: ALCOHOLS, N.O.S.
(ethanol, iso-propanol)

IMDG

UN-No.: 1987; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: ALCOHOLS, N.O.S.
(ethanol, iso-propanol)

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ICAO/IATA

UN-No. : 1987; Class: 3; Packaging group: II; Description of the goods: Alcohols, n.o.s. (ethanol, iso-propanol)

15. Regulatory information

Labelling



Regulatory base

1999/45/EC

Symbol(s)

F: Highly flammable
Xi: Irritant

R-phrases(s)

R11: Highly flammable.
R36: Irritating to eyes.
R67: Vapours may cause drowsiness and dizziness.

S-phrases(s)

S 9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharges.
S60: This material and its container must be disposed of as hazardous waste.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

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This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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The MSDS was created by:

The MSDS was approved by: