

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: **ISO PROPYL ALCOHOL**
Supplier: **LABSCAN LIMITED,
T24-26 STILLORGAN INDUSTRIAL PARK, STILLORGAN,
CO. DUBLIN, IRELAND.**
Emergency telephone number: **+353 1 295 2684** Fax No: **+353 1 295 2685**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
ISOPROPYL ALCOHOL	67-63-0	603-003-00-0	F R11; Xi R36; R67	100

3. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable, Irritant effect on eyes.
Specific hazards Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea.
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Effects due to ingestion may include: vomiting, dizziness, abdominal pain & unconsciousness.
Effects of breathing high concentrations of vapour may include; headache, irritation of respiratory system, nausea vomiting, dizziness & unconsciousness.

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
Skin contact: Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Wash contaminated clothing before re-use. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely.
Eye contact: If the substance has got into the eyes, wash out with water or saline solution for at least 15 minutes. Obtain medical attention.

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Ingestion: Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Extinguish preferably with dry chemical / alcohol-resistant foam / sand.

Extinguishing media which must not be used for safety reasons:

Do not use water jet.

Specific hazards:

carbon oxides. The solvent is combustible, forms explosive mixtures with air at ambient temperatures.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus and protective suit.

Specific methods:

Standard procedure for chemical fires. Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Evacuate personnel to safe areas. Remove all sources of ignition. Wear self-contained breathing apparatus and protective suit. Shut off leaks if without risk. Keep people away from and upwind of spill/leak

Environmental precautions:

Do not let product enter drains Contain or absorb leaking liquid with sand or earth. Prevent liquid entering sewers, basements and workpits. Selv om indhold har noterede en vand løb eller kanal eller forurene jord eller planteliv , advisere politi.

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Transfer to covered steel drums. Contact waste disposal services. Dispose of promptly.

7. HANDLING AND STORAGE

Handling:

Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Storage:

Keep tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Store in original container (+5 - + 30C). Electrical equipment should be protected to the appropriate standard.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:

National occupational exposure limits:

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ISOPROPYL ALCOHOL

EH40: OES 400ppm (980mg/m³) 8h TWA.EH40: OES 500ppm (1225mg/m³) 15min TWA.**Engineering measures to reduce exposure**

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

Personal protection equipment:

- **Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand protection:** PVC or other plastic material gloves - nitrile rubber
The material should comply with 89/686/EEC and EN374.
- **Eye protection:** Goggles giving complete protection to eyes.
- **Skin and body protection:** Rubber or plastic boots. Chemical resistant apron / complete suit protecting against chemicals.

Hygiene measures:

Keep working clothes separately. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Formula:	(CH₃)₂CHOH		
Form:	liquid		
Colour:	colourless		
Odour:	alcoholic		
pH:	(°C)	no data available	(g/l H ₂ O)
Boiling point/range:		79 - 82	°C
Melting point/range:		-88	°C
Decomposition temperature:		no data available	°C
Flash point:		12 open cup	°C
Autoignition temperature:		> 400	°C
Flammability (solid, gas):		highly flammable	
Explosive properties:			
Explosion limits:	- lower	2.5	vol. %
	- upper	12.7	vol. %
Oxidizing properties:		no data available	
Vapour pressure:	(20 °C)	41.6	hPa
Relative density:	(20 °C) >=	0.785	
		<= 0.825	
Bulk density:		786	kg/m ³
Solubility:			

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Water solubility	(°C)	completely miscible	g/l)
Solubility in other solvents		Alcohol & Ether	
Partition coefficient (n-octanol/water)		no data available	
Viscosity:	(20 °C)	3.057 (cST)	mPa.s

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions. No incompatible products to be specially mentioned.
Conditions to avoid:	Strong heating. Stable at normal conditions.
Materials to avoid:	alkali metals, alkaline earth metals, aluminum powder, perchlorates, nitric acid, nitrogen oxides, hydrogen peroxide, organic nitro compounds, aldehydes, amines, fuming sulphuric acid and phosgene. strong oxidizing agents. Unsuitable working materials: plastics and rubber.
Hazardous decomposition products:	carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Ingestion ; LD50/oral/rat = 5045 mg/kg
	Inhalation : LC50/inhalation/4h/rat = 46.5mg/l.
	Skin contact : LD50/dermal/rabbit = > 12800mg/kg
Sensitization:	Irritating to respiratory system. Irritating to skin. Irritant effect on eyes.
Long term toxicity:	Chronic intensive skin contact may cause dermatitis .
Chronic toxicity:	EI Aineisto Animal experiments indicate that the solvent is noncarcinogenic, nonteratogenic and does not affect the reproductive system. Non-mutagenic (mammalian and bacterial cells).

12. ECOLOGICAL INFORMATION

Mobility:	Completely miscible with water.
Persistence / degradability:	Readily biodegradable, according to appropriate OECD test. (95%/21d) Biochemical oxygen demand (BOD) = >78% Theoretical oxygen demand (ThOD) (BOD20)
Bioaccumulation:	Bioaccumulation not applicable. Bioconcentration factor (BCF) = 1

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Ecotoxicity: LC50/96h/Fathead minnows = 9640 mg/l
 LC50/24h/daphnia = 13299 mg/l
 Algas >1000mg/l
 Toxicity to bacteria 22000mg/l (microtox), 1800mg/l (Sc. Quadricauda), 1050mg/l/16h (Ps putida), 1000mg/l/8d (M. aeruginosa)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Contact waste disposal services.

Can be incinerated, when in compliance with local regulations.

Contaminated packaging:

Empty containers can be landfilled after cleaning, when in compliance with local regulations.

14. TRANSPORT INFORMATION

ADR/RID

Proper shipping name:	ISO PROPANOL (Isopropyl alcohol)		
Class:	3	Item:	3 b
Packaging group:	II	HI/UN No:	33/1219

IMO

Proper shipping name:	ISO PROPANOL (Isopropyl alcohol)		
Class:	3.2	IMDG Page:	3244
EmS:	3-06	MFAG:	305
Packaging group:	II	UN-No:	1219
Marine pollutant:	not.		

ICAO

Proper shipping name:	ISO PROPANOL (Isopropyl alcohol)		
Class:	3	UN/ID No:	1219
Packaging group:	II		

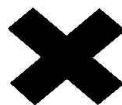
15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 2001/58/EC

- Contains: ISO PROPYL ALCOHOL
- Symbol(s):



F - Highly flammable.



Xi - Irritant

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R -phrase(s): R11 - Highly flammable.
R36 - Irritating to eyes.
R67 - Vapours may cause drowsiness and dizziness.

S -phrase(s): S 7 - Keep container tightly closed.
S16 - Keep away from sources of ignition - No smoking.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

16. OTHER INFORMATION

Recommended restrictions: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Take notice of labels and material safety data sheets for the working chemicals.

Recommended use: General purpose solvent.

Further information: Contact Labscan Limited.

REVISION DATE: 19/08/2002

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.