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MATERIAL SAFETY DATA SHEET

Ref. No. : LS3515

Issue date : October 2003

Issued by LABSCAN ASIA

PRODUCT NAME : ISO PROPYL ALCOHOL

COMPANY DETAILS

Company Name	LABSCAN ASIA CO., LTD.
Address	24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand
Tel. / Fax	Tel: 662-613-7911-4 Fax: 662-613-7915
Emergency Tel.	Tel : 662-613-7911-4
Other Information	Ireland : Labscan Limited
	T26 Stillorgan Industrial Park, Stillorgan Co. Dublin, Ireland
	Tel.: 353-1-295-2684 Fax: 353-1-295-2685
	Labscan Asia Co., Ltd does not warrant that this product is suitable for any use or purpose. The
	user must ascertain the suitability of the product for any intended purpose. Preliminary testing of
	the product before use or application is recommended. Any reliance or purported reliance upon
	Labscan Asia Co., ltd. with respect to any kill or judgement or advice in relation to the extent
	prohibited at law, any condition implied by any statute as to the merchantable quality of this
	product or fitness for any purpose is hereby excluded. This product is not sold by description.
	Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Labscan
	Asia Co., Ltd. is limited to the replacement or supply of equivalent goods or payment of the cost of
	replacing the goods or acquiring equivalent goods.

HAZARDS IDENTIFICATION

Product Name	PROPAN-2-OL		
Proper Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)		
Other Names	<u>Name</u>	<u>Grade</u>	Labscan Code
	PROPAN-2-OL	AR	A3515
	PROPAN-2-OL	HPLC	C2519
	PROPAN-2-OL	PESTI	P5515
	PROPAN-2-OL	SPECTRO	S7515
	ISO-PROPYL ALCOHOL		
	ISOPROPANOL		
	2-PROPANOL		
	SEC-PROPYL ALCOHOL		
UN No.	1219		
D.G. Class	3.2		
Packing Group	II		
Hazchem Code	2[Y]E		
Poisons schedule	Not schedule		
EEC-No	603-003-00-0		
Class	F; R11; Xo R36; R67		
CAS-No	67-63-0		
Weight	100%		
Most Important hazards	Highly flammable, Irritant effect	on eyes.	



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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 vapor may include; headache, irritation of respiratory system, nausea, vomiting, dizziness & unconsciousness.

FIRST AID

General advice:	Show this safety data sheet to the doctor in attendance.	
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. 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, immediately wash out with plenty of water or saline solution for at least 15 minutes. Obtain medical attention.	
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 to nose. Use suitable instruments / apparatus. Obtain medical attention.	

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.

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.

Hazchem Code: 2 [Y] E

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:	Contain or absorb leaking liquid with sand or earth. Prevent liquid entering	
	sewers basements and work pits; If substance has entered a water course or	
	sewer or contaminated soil or vegetation, advise police.	



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 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.

SAFE HANDLING AND STORAGE INFORMATION

Handling:	Use only in well-ventilated areas. Do not breathe vapors 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.	
	Electrical equipment should be protected to the appropriate standard.	

EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:	National occupational exposure limits:
ISOPROPYL ALCOHOL	EH40:OES 400 ppm (980 mg/m ³) 8h TWA.
	EH40:OES 500 PPM (1225 MG/M ³)15 min 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:	Incase of insufficient ventilation, wear suitable respiratory equipment.
Hand protection:	PVC or other plastic material gloves.
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.

PHYSICAL DATA AND OTHER PROPERTIES

Formula		(CH ₃) ₂ CHOH	
Form		Liquid,	
Colour		Colourless,	
Odour		Alcoholic	
Boiling point/range		79-82°C	
Melting point/range		–88°C	
Flash point		12 open cup °C	
Autoignition temperature		> 400°C	
Flammability limits		high flammable	
Explosion limits	lower	2.5 vol.%	
	Upper	12.7 vol.%	
Vapour pressure	(20°C)	41.6	hPa



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Relative density	(20°C)	>= 0.785 <= 0.825	
Bulk density Solubility	Water solubility Solubility in other solvents	786 kg/m ³ completely miscible Alcohol & Ether	g/l
Viscosity	(20°C)	3.057 (cST)	mPa.s

STABILITY AND REACTIVITY

Stability:

Conditions to avoid: Materials to avoid: Hazardous decomposition products: Stable at normal conditions. No incompatible products to be specially mentioned. Stable at normal conditions. Strong oxidizing agents. None reasonably for seeable.

TOXICOLOGICAL INFORMATION

Acute toxicity:	Ingestion:
	LD50/oral/rat = 5840 mg/kg.
	Inhalation:
	LD50/inhalation/4h/rat = 46.5 mg/l.
	Skin contact:
	LD50/dermal/rabbit => 12800 mg/kg.
Sensitization:	Irritant effect on eyes.
	Irritant to skin.
	Irritating to respiratory system.
Long term toxicity:	Repeated and prolonged exposure may cause skin irritation and dermatitis, due to
	degreasing properties of the product.
Chronic toxicity:	No data is available on the product itself.

ECOLOGICAL INFORMATION

Mobility:	Completely miscible with water.	
Persistence / degradability:	Readily biodegradable, according to appropriate OECD test	
	Biochemical oxygen demand (BOD) =>78% theoretical oxygen demand (ThOD)(BOD20)	
Bio accumulation:	Bio accumulation not applicable. Bio concentration factor (BCF) = 1	
Ecotoxicity:	LC50/96h/fathead minnows = 9600 mg/l.	
	LC50/24h/daphnia = > 1000 mg/l.	

DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Can be incinerated, when in compliance with local regulations.

Contact waste disposal services.

Contaminated packaging:

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



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TRANSPORT INFORMATION				
	UN-No	1219	Marine pollutant	not applicable
ADR/R	lD			
	Class	3.0	Item	3(b)
	TREM-CARD	LAB30TR30	HI/UN No	33/1219
	Proper shipping name	ISOPROPANOL (Isopropyl alcohol)		
IMO				
	Class	3.2	EmS	3-06
	MFAG	305	IMDG Page	3244
	Proper shipping name	ISOPROPANOL (Isopropyl alcohol)	Packaging group	II
ICAO				
	Class	3.0	UN/ID No	1219
	Proper shipping name	ISOPROPANOL (Isopropyl alcohol)		

REGULATORY INFORMATION

 Classification according to European directive on classification of hazardous preparations 90/492/EEC

 Contains:
 ISO PROPYL ALCOHOL

 Symbol(s):
 F – Highly flammable



R – phrase(s)	R11	– Highly flammable.	
	R36	- Irritating to eyes.	
	R67	 Vapours may cause drowsiness and dizziness. 	
S – phrase(s)	S7	- 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. 	
Recommended restrictions:		Take notice of labels and material safety data sheets for the working chemicals. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors.)	
Recommended use:		General purpose solvent.	

CONTACT POINT

Contact

Australia : Lomb Scientific (Aust) Pty, Ltd. 20 Mangrove Lane, Taren Point, N.S.W. Australia 2229 Tel : 612-853-66200, 612-8536-6218 Fax : 612-853-66250

End of MSDS

