

## ISOPROPYL ALCOHOL

**SECTION 1** **PRODUCT IDENTIFIER AND CHEMICAL IDENTITY**

<b>Product Identifier</b>	<b>ISOPROPYL ALCOHOL</b>
<b>Other Names</b>	sec-Propyl Alcohol, 2-Propanol, Isopropanol, IPA
<b>Recommended Use</b>	Solvent, Cleaner

**Details of Supplier/Manufacturer**



<b>Company</b>	Sydney Solvents
<b>Address</b>	Unit 3, 10 production Place, Jamestown NSW, 2750
<b>Phone</b>	1800 60 50 40
<b>Website</b>	sales@sydney solvents.com.au

**Emergency Telephone Numbers**

<b>Business Hours</b>	1800 60 50 40
<b>Poisons Information</b>	Australia: 13 11 26 New Zealand: 0800 764 766

**SECTION 2** **HAZARDS IDENTIFICATION**

<b>Hazardous chemical</b>	according to classification by Safe Work Australia Dangerous
<b>Dangerous goods</b>	according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

<b>GHS Classification</b>	 GHS07: Harmful  GHS02: Flammable	<b>Hazard Statement</b>
Flammable Liquids, Category 2		H225 Highly flammable liquid and vapour
Serious Eye Damage/Irritation, Category 2A		H319 Causes serious eye irritation
Specific Target Organ Toxicity (Single exposure), Category 3		H336 May cause drowsiness or dizziness

**ISOPROPYL ALCOHOL**

<b>Signal Word</b>	<b>DANGER</b>
<b>General</b>	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
<b>Hazard Statements</b>	
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
<b>Preventative</b>	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilation/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
<b>Response</b>	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
<b>Storage</b>	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	
P501	Dispose of contents/container in accordance with local regulations.

## ISOPROPYL ALCOHOL

**SECTION 3** COMPOSITION/ Information on Ingredients**Substances**

Synonyms	2 - Propanol
	sec-Propyl alcohol
	IPA
	Isopropanol
Formula	C3H8O
Molecular weight	60.1 g/mol
CAS-No.	67-63-0
EC-No.	200-661-7
Index-No	603-117-00-0

**Hazardous Ingredients**

Component	CAS Number	Concentration
2 - Propanol	67-63-0	<= 100 %

**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.

**If swallowed**

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

**ISOPROPYL ALCOHOL****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**

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

Do not use water in a jet.

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

Carbon oxides Combustible. Pay attention to flashback. Vapours 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**

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Spills can be converted to non-flammable mixtures by dilution with water.

**6.2 Environmental precautions**

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

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

For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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**7.1 Precautions for safe handling**

Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

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

Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS AND PERSONAL PROTECTION</b>
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**8.1 Exposure control measures**

From National Occupational Health & Safety Commission (NOHSC) WorkSafe Australia - Isopropyl Alcohol: 983mg/m<sup>3</sup> (400ppm) TWA (8hr), 1230mg/m<sup>3</sup> (500ppm) STEL

**8.2 Biological monitoring**

No biological limit allocated.

**8.3 Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

**8.4 Individual protection measures**

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Eye and Face Protection	Wear safety goggles.
Skin Protection	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory Protection	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal Hazards	Not applicable.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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Appearance	Colourless clear liquid
Odour	Alcoholic
Odour threshold (ppm)	Data not available
pH	Data not available
Melting point/freezing point (°C)	-88
Initial boiling point and boiling range (°C)	82 - 83
Flash point (°C)	12 (Abel)
Evaporation rate (Butyl acetate = 1)	Data not available
Flammability	Highly flammable
Upper/lower flammability or explosive limits (%)	2.0 – 12.0
Vapour pressure (mmHg @ 20°C)	4.1
Vapour density (air = 1)	2
Density (g/ml @ 15°C)	0.78 – 0.79
Solubility (kg/m <sup>3</sup> )	Miscible with water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature (°C)	425
Decomposition temperature (°C)	Data not available
Kinematic viscosity (mm <sup>2</sup> /s @ 20°C)	Data not available

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**Reactivity**

Stable under normal conditions of use.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

**ISOPROPYL ALCOHOL**

Stable under normal conditions of use.

**Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

**Incompatible materials**

Strong oxidising agents, strong acids.

**Hazardous decomposition products**

Burning can produce carbon monoxide and/or carbon dioxide.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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Acute toxicity	Expected to be of low toxicity - LD50 Oral (rat) > 2000mg/kg
Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Serious eye damage/irritation	Irritating to eyes.
Respiratory or skin sensitisation	Not expected to be a sensitiser.
Germ cell mutagenicity	Not expected to be mutagenic.
Carcinogenicity	Not expected to be carcinogenic.
Reproductive toxicity	Not expected to impair fertility.
Specific Target Organ Toxicity (STOT) – single exposure	Inhalation of vapours or mists may cause drowsiness or dizziness and irritation to the respiratory system. High concentrations may cause central nervous system depression.
Specific Target Organ Toxicity (STOT) – repeated exposure	No data available.
Aspiration hazard	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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<b>Acute Toxicity</b>	
Fish	Low toxicity: LC/EC/IC50 > 100mg/l
Aquatic Invertebrate	Low toxicity: LC/EC/IC50 > 100mg/l
Algae	Expected to have low toxicity: LC/EC/IC50 > 100mg/l

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Microorganisms

Low toxicity: LC/EC/IC50 &gt; 100mg/l

**Chronic Toxicity**

Fish

Data not available

Aquatic Invertebrate

Data not available

Algae

Data not available

Microorganisms

Data not available

**Persistence and degradability**

Biodegradable oxidises rapidly by photochemical reactions in air.

**Bioaccumulative potential**

Not expected to bioaccumulate significantly.

**Mobility in soil**

Miscible with water, if product enters soil it will be highly mobile and may contaminate groundwater.

**Other adverse effects**

Data not available.

**SECTION 13 DISPOSAL CONSIDERATIONS****Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**SECTION 14 TRANSPORT INFORMATION**



**ISOPROPYL ALCOHOL**

UN number	1219
EmS Code	F-E, S-D
Proper shipping name	Isopropanol
Australian Dangerous Goods class	3
Australian Dangerous Goods packing group	II
Hazchem code	●2YE

**SECTION 15 REGULATORY INFORMATION**

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule	Not scheduled
Australian Inventory of Chemical Substances (AICS)	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76)	16

This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Code and Protect cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Sydney Solvents on 1800 60 50 40.