

## MATERIAL SAFETY DATA SHEET

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### IDENTIFICATION

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**Product Name:** **Isopropyl Alcohol**

Classified as hazardous according to criteria of Worksafe Australia

Trade Name: Isopropanol  
Other Name: Propan-2-01

UN No: 1219  
Dangerous Goods Class: 3  
Subsidiary Risk: None Allocated  
Hazchem Code: 2[Y]E  
Poisons Schedule: N/A  
Packaging Group: II  
EPG: 16

Manufacturers Code: Various

### Use

A clear colourless liquid used for cleaning electronic circuit boards, computer equipment and other electronic equipment.

### Physical Description/Properties

Colourless clear and volatile liquid  
Boiling Point: 82.22 deg C  
Melting Point: -88.5 deg C  
Flash Point: 12 Deg C  
Auto Ignition Temp: > 350 Deg C  
Flammable Limits in Air: vol%: Lower 2 Upper 12  
Vapour Pressure: 33 mm Hg (1 atmosphere)  
Specific Gravity: 0.79 (water = 1)  
pH: 7 ()  
Solubility in water  
Flammability Limits (as percentage volume in air)

### Ingredients

	CAS NO.	%
Isopropyl Alcohol	[67-63-0]	High 100%

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## HEALTH HAZARD INFORMATION

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### Health Effects - Acute

Swallowed: Hazardous in case of ingestion.

Eye: Irritating and will injure eye tissue if not removed promptly.

Skin: Low order or toxicity. Frequent or prolonged contact may defat and dry skin, leading to discomfort and dermatitis.

Inhaled: Negligible hazard at ambient temperature (-18 to 38 Deg C). Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

### Health Effects – Chronic

Repeated or prolonged exposure is not known to aggravate medical conditions.

### First Aid

Swallowed: Do not induce vomiting. Keep at rest. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.

Eye: Irrigate eyes with running water for at least 15 minutes, keep eyelids open. Do not use any eye ointment. Seek medical attention.

Skin: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Inhaled: Move victim to fresh air, loosen tight clothing. If breathing stops give artificial respiration, get prompt medical attention.

Advice to Doctor: Treat symptomatically.

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## PRECAUTIONS FOR USE

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### Exposure Standards

Isopropyl Alcohol: Exposure standards established by the Worksafe Australia. TWA: 400ppm 983 mg/m<sup>3</sup>  
STEL: 500ppm 1.230 mg/m<sup>3</sup>.

### Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

## Personal Protection

Personal Protection: Respiratory protection: Vapor respirator. Be sure to use approved respirator or equivalent. Wear appropriate respirator when ventilation inadequate. Eyes protection: Wear splash goggles. Body protection: Wear chemical resistant protective suit. Hands protection: Wear butyl rubber gloves. Feet protection: Wear chemical resistant safety boots.

## Flammability

Flammable liquid, this product is stable.

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## SAFETY HANDLING INFORMATION

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## Storage and Transport:

Store in a cool dry area, not more than 50 Deg C. Keep locked up. Keep away from heat, Keep away from sources of ignition. Do not ingest. Do not breathe gas, fumes, vapors or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact skin and eyes. Keep away from incompatibles such as oxidizing agents, acids. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (sparks or flame).

Classified for transport as UN 1219 Class 3, Packaging Group II, Hazchem code 2Y, EPG 16.  
Shipping Name: Isopropanol (Isopropyl Alcohol). Hazard Flammable Irritant.

## Spills and Disposal

### Spills

Clean up personnel should wear splash goggles, full suit, vapor respirator, boots, gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product. Keep away from heat. Keep away from sources of ignition, Ground all equipment containing material. Do not touch spilled material. Prevent entry into sewers or confined areas. Eliminate all sources of ignition. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

# Isopropyl Alcohol

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## Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Fire and Explosion Hazard

### Fire/Explosion

Flammable Liquid. Incompatible with various substances such as oxidizing agents, acids. Slightly reactive to reactive with moisture. When heated decomposition, it emits acrid smoke and fumes.

### Extinguishing Media

Fire fighters should wear full protective equipment including self-contained breathing apparatus. Highly flammable in presence of open flames and sparks, of heat of oxidizing materials. Flammable in presence of combustible material. Use dry chemical powder for small fire and use alcohol foam, water spray or fog. Vapor may travel considerable distance to source of ignition flash back. When heated to decomposition it emits acrid smoke and fumes.

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