

# MATERIAL SAFETY DATA SHEET

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## 1. COMPANY DETAILS/IDENTIFICATION

Issue Date: 30/04/2014

### Poison Information

**Centre:** Ph: 131126

**National Poisons Centre:** New Zealand 0800-764766

**Chemical 24 Hour Emergency Number:** Australia 1800-127406  
New Zealand 0800-243622

**Emergency Services Dial:** 000

**Product Name:** **IPA 70% SOLUTION**

**Product use:** General Industrial Solvent

**Poison Schedule:** S5

**Proper Shipping Name:** Isopropanol (ISOPROPYL ALCOHOL)

**UN Number:** 1219

**DG Class:** 3Flamable Liquid

**Packing Group:** II

**Hazchem Code:** 2 [Y] E

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Appearance:** Thin Clear Liquid

**Characterization Information on Substances:** All ingredients in this product are listed on the Australian Inventory of Chemical Substances:

**Composition:** (AICS)

<u>Ingredients:</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	ISOPROPYL ALCOHOL	67-63-0	70%
	Water	7732-18-5	Balance

## 3. HAZARDS IDENTIFICATION

Is hazardous according to criteria of NOHSC

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

**Safety Phrase** S1/2 Keep locked up and out of reach of children.  
S7 Keep container tightly closed.  
S16 Keep container away from ignition – no smoking.  
S26 In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice.  
S24/25 Avoid contact with skin and eyes.

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## 4. FIRST AID MEASURES

<b>Swallowed:</b>	Give water to drink. DO NOT induce vomiting. Rinse mouth thoroughly with water immediately. Seek medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
<b>Eye:</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice
<b>Skin:</b>	Remove contaminated clothes. Flush affected areas with copious quantities of water and follow by washing with soap if available.
<b>Inhaled:</b>	Remove victim to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
<b>Advice to Doctor:</b>	Causes central nervous system depression. Call a doctor or poisons information centre for guidance. Consider: gastric lavage with protected airway, administration of activated charcoal.

## 5. FIRE FIGHTING MEASURES

<b>Specific Hazards:</b>	<b>EXTINGUISHING MEDIA:</b> Water spray, fog or mist, foam, carbon dioxide or dry chemical. DO NOT use water in a spray. <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Breathing apparatus and protective fire fighting clothing.
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## 6. ACCIDENTAL RELEASE MEASURES

<b>Spills &amp; Disposal:</b>	In case material is spilled or released: <b>MINOR SPILLS</b> – Contain and mop up immediately. Prevent contaminating water ways. Place in suitable labelled container for disposal. <b>MAJOR SPILLS</b> – contain, use sand and earth. Prevent run-off into drains or waterways. Scoop up spilt material into clean, labelled drums ready for disposal. <b>WASTE DISPOSAL METHODS:</b> In accordance with waste disposal authority or local equivalent. Disposable containers are to be properly rinsed with water and labelled before disposal.
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## 7. HANDLING AND STORAGE

<b>Handling:</b>	When using do not eat or drink. Handle and open containers with care. Prevent spills and avoid operations which contaminate clothing and work areas. Avoid prolonged or repeated contact with skin and eyes.
<b>Storage:</b>	Keep container tightly closed and dry. Keep away from direct sunlight and other sources of heat or ignition.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

<b>Exposure Limits:</b>	The following exposure standard has been established by The Australian Safety and Compensation Council (ASCC); Isopropyl Alcohol CAS: 67-63-0 TWA = 400ppm (983mg/m <sup>3</sup> ) NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
<b>Personal Protective Equipment:</b>	<p><b>RESPIRATOR:</b> Wear an approved respirator with suitable filter for organic gases and vapours if engineering controls are inadequate. (AS1715/1716)</p> <p><b>EYES:</b> Chemical goggles to prevent splashing in the eyes (AS1336/13387).</p> <p><b>HANDS:</b> Nitrile or neoprene gloves are recommended (AS2161).</p> <p><b>CLOTHING:</b> Flame-retardant coveralls and anti-static footwear (AS3765/2210).</p>
<b>Eng. Controls:</b>	A system of local and/or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use explosion proof ventilation equipment.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Thin clear liquid
<b>Odour:</b>	Characteristic
<b>Boiling Point:</b>	82-83°C
<b>Specific Gravity:</b> (H <sub>2</sub> O=1)	0.78-0.79 at 20°C
<b>PH Value:</b>	Not applicable
<b>Vapour Pressures:</b>	4,100 Pa at 20°C
<b>Flash Point:</b>	12°C
<b>Flammable Limits:</b> LEL	Flammable
<b>Other information:</b>	Completely miscible

## 10. STABILITY & REACTIVITY

<b>Hazardous Reaction:</b>	<p><b>STABILITY:</b> Stable under normal conditions. Reacts with strong oxidizing agents. Reacts with strong acids.</p> <p><b>CONDITIONS TO AVOID:</b> Avoid heat, sparks, open flames and other ignition sources.</p> <p><b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.</p> <p><b>HAZARDOUS POLYMERIZATION:</b> Data not available.</p> <p><b>INCOMPATIBILITY (materials to avoid) :</b> Strong oxidizing agents, strong acids, metals such as aluminium, tin and zinc, peroxides, reducing agents, metal salts and sources of ignition.</p>
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## 11. TOXICOLOGICAL INFORMATION

- Health Effects:** Vapours may cause drowsiness and dizziness. Repeat exposure may cause skin dryness or cracking. Irritating to eyes.
- Inhalation:** Inhalation may be harmful. The vapour may be irritant to the mucous membranes and respiratory tract. May cause irritation to the throat and lungs. Effects may be delayed.
- Skin:** Corrosive. Product is capable of causing burns. Severity depends on concentration and duration of exposure. Burns are not immediately painful; onset of pain may be delayed.
- Ingestion:** May cause irritation to mouth, nose, throat and intestinal tract if swallowed.
- Eye:** A severe eye irritant.

## 12. ECOLOGICAL INFORMATION

- Environmental** Do not let product reach waterways and drains.

## 13. DISPOSAL CONSIDERATIONS

- Waste Disposal:** Refer to State land Waste Management Authority or a Licensed disposal contractor for disposal. Empty containers must be decontaminated, rinsed with water before landfill disposal.

## 14. TRANSPORT INFORMATION

- U.N Number** 1219
- Proper Shipping Name** ISOPROPANOL (ISOPROPYL ALCOHOL)
- DG Class** 3
- Hazchem Code** 2 [Y] E
- Packaging Method** 20lt Drums, 5lt Drums
- Packing Group** II
- Storage & Transport** Must be stored and transported in accordance with State or Territory dangerous goods regulations.

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## 15. REGULATORY INFORMATION

**Poison Schedule:** 5

**Hazard Category:** Irritant, Highly Flammable

**Packaging &  
Labeling:**

Dangerous Goods Class 3. Packaging Group II.

As required by the ADG Code and Standard for the Uniform Scheduling of Drugs and Poisons.

## 16. OTHER INFORMATION

**ABBREVIATIONS**      OHHA – Occupational Safety & Health Information.  
                                 TLV – Threshold Limit Value  
                                 NOHSC – National Occupational health & Safety Committee