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**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

<b>Product Name</b>	ISO PROPANOL	<b>Code</b>	IPA
<b>Product Use</b>	Use as a solvent.		
<b>Ingredients</b>	<b>Name</b>	<b>CAS Number</b>	<b>Proportion w/w</b>
	Iso Propyl Alcohol	67 – 63 – 0	100 %

**HAZARD IDENTIFICATION**

The product is classified both as **Dangerous Goods and Hazardous Substance** in accordance to ASCC

**Risk Phrases R**

- 11 Highly Flammable Liquid  
 20/22 Harmful by inhalation and if swallowed.  
 36/38 Irritating to the eyes and skin.  
 52/53 Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.  
 66/67 Repeated or prolonged exposure may cause skin dryness and cracking. Vapours may cause headaches, drowsiness and dizziness.

**Safety Phrases S**

- 2 Keep out of reach of children.  
 7/9 Keep containers tightly closed when not in use and also in a well ventilated area.  
 15 Keep away from heat.  
 16/33 Keep away from sources of ignition. Take precautionary measures against static electricity.  
 20/21 When using, do not eat, drink or smoke.  
 23.2 Do not breathe vapours.  
 24/25 Avoid skin contact and with the eyes.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 27 Take off immediately all contaminated clothing.  
 28.1 In contact with the skin, wash immediately soap and plenty of water.  
 36/37/38/39 The wearing of an Organic Vapour Respirator, Safety Glasses fitted with side – shields, Viton or PVC gloves, enclosed footwear, hair protection, high temperature and anti – static clothing.  
 45 In case of accident, or if you feel unwell, seek medical advice immediately. Show the label where possible.  
 62 If swallowed, do not induce vomiting: seek medical advice immediately. Show the label where possible.

**ADG Classification** ISOPROPANOL, UN 1219, Class 3, HAZCHEM 2[Y]E, Packing Group II, Initial Emergency Response Guide 14.

**SUSDP** Not classified as a Schedule poison.

**FIRST AID MEASURES**

<b>Inhalation</b>	If the applicator feels drowsy, dizzy, tired or experiencing headaches, remove the victim to the fresh air. Keep the victim warm and quiet until all symptoms subside.
<b>Ingestion</b>	If swallowed, and only if the person is conscious, give plenty of water to drink. Do <b>NOT</b> induce vomiting. Seek medical attention if any symptoms occur.
<b>Eyes</b>	If splashed into eyes, hold eyes open, irrigate copiously with clean water for at least 15 minutes. Seek medical attention if any irritation occurs.
<b>Skin and Hair</b>	If skin or hair contact occurs, remove all contaminated clothing, flush skin and hair with running water. Seek medical attention if any irritation occurs.
<b>First Aid Facilities</b>	Clean Water Supply, emergency showers, soap and eye wash stations.
<b>Advice to Doctor</b>	If poisoning occurs, consult with the Poisons Information Centre {Telephone <b>13 11 26</b> }. Have a copy of this material safety data sheet or label available. Treat symptomatically.

**FIRE FIGHTING MEASURES**

<b>Extinguishing Media and Requirements</b>	Carbon Dioxide {CO <sub>2</sub> }, alcohol resistant foam, dry chemical or water spray. <b>DO NOT</b> use water jets. Bund area with sand to prevent run – off entering waterways and drains.
<b>Fire Fighting Procedures &amp; Precautions</b>	Fire – fighters <b>must</b> wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus and gloves. Evacuate all non fire–fighting personnel away from the area. Turn off all electricity and power supplies. Keep containers cool with water spray or water to prevent rupture or burning. Move away all containers and equipment from the direction of the fire, if safe to do so. Keep upwind.
<b>Flammability</b>	Highly Flammable Liquid. Flash Point = 13 °C
<b>Hazardous Decomposition Products</b>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide

**ACCIDENTAL RELEASE MEASURES**

<b>Spills and Leaks</b>	Remove all sources of ignition and <b>NO SMOKING</b> . Wear the recommended full body impervious clothing, gloves and breathing apparatus as per AS– NZ 1715/16. Keep upwind. Remove all unwanted personnel away from the contaminated area.
<b>Disposal</b>	Iso Propyl Alcohol is water soluble. Dilute with water and collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
<b>Other Precautions</b>	Avoid contaminating waterways, drains, water courses and sewage.



**HANDLING and STORAGE**

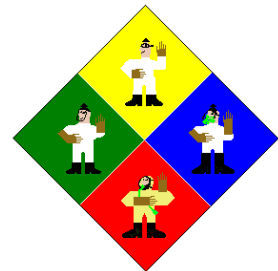
<b>Handling</b>	Keep out of reach of children. Avoid unnecessary contact with the material. After use before eating, drinking or smoking wash all exposed skin and hair with soap and water.
<b>Storage</b>	Containers must be clearly labelled, rigid and strong. Store upright in a cool, dry, well ventilated area from heat, ignition sources and direct sunlight e.g. Flammable Goods Store as per AS 1940 requirements.

**EXPOSURE CONTROLS**

<b>Exposure Standards MAK</b>	Iso Propyl Alcohol = 980 mg/m <sup>3</sup> .
<b>Exposure Standards STEL</b>	Iso Propyl Alcohol = 1230 mg/m <sup>3</sup> .
<b>Engineering Controls</b>	The use of local exhaust ventilation equipment is required. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.

**PERSONAL PROTECTION**

<b>Inhalation</b> AS –NZE 1715/16	The wearing of an Organic Vapour Respirator <b>must be</b> worn during handling and application period.
<b>Eye</b> AS –NZE 1337	The wearing of safety glasses fitted with side shields <b>must be</b> worn at all times during handling and application period. Do not wear contact lenses.
<b>Gloves</b> AS –NZE 2161	The wearing of Viton or PVC elbow length gloves <b>must be</b> worn at all times during handling and application period..
<b>Footwear</b> AS –NZE 2210	The wearing of enclosed footwear <b>must be</b> worn during handling and application period.
<b>Clothing</b> AS –NZE 2919	The wearing of anti–static clothing made on natural or synthetic high temperature fibre <b>must be</b> worn during handling and application period.
<b>Hearing</b> AS –NZE 1270	Not Required.
<b>Other Requirements</b>	Avoid contact with eyes, skin and hair. The wearing of recommended Personal Protective Equipment as described including hair protection during handling and application period..



**PHYSICAL – CHEMICAL PROPERTIES**

<b>Appearance</b>	A colourless liquid with a characteristic odour.	
<b>pH</b>	Not required.	
<b>Vapour Pressure</b> (Butyl Acetate = 1)	Greater than 1.0	
<b>Boiling Point °C</b>	79 – 82 °C {literature value}	
<b>Density</b>	0.78 {literature value}	
<b>Solubility in water</b>	Soluble	
<b>Flash Point °C</b>	12 °C {literature value}	
<b>Flammability</b>	Lower Explosive Limit = 2.0 %	Upper Explosive Limit = 13.0 %
<b>Limits</b>		
<b>Auto Ignition °C</b>	400 °C	
<b>Volatile</b>	Iso Propyl Alcohol	
<b>Components</b>		

**STABILITY and REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions of use.	
<b>Conditions to avoid</b>	Avoid contact with heat and all ignition sources.	
<b>Hazardous decomposition products</b>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide.	
<b>Incompatible materials</b>	Incompatible with strong oxidizing agents	
<b>Hazardous Reactions</b>	Will not polymerize.	

**TOXICOLOGICAL INFORMATION**

<b>Health Effects</b>	<b>Risk Phrase</b>	<b>Iso Propyl Alcohol</b>
<b>Inhalation LC<sub>50</sub> rat</b>	20	> 20mgm/L
<b>Dermal LD<sub>50</sub> rabbit</b>	21	> 2000mgm/kgm
<b>Oral LD<sub>50</sub> rat</b>	22	> 2000mgm/kgm

**Note**

Risk phrases R20/21/22 has been assigned by the EEC Council Directive 67/548/EEC.  
Risk Phrases R20/21/22 – Harmful by inhalation, skin contact or if swallowed.

<b>Acute Oral Toxicity rat</b>	Low toxicity.
<b>Acute Dermal Toxicity rabbit</b>	Low toxicity
<b>Acute Inhalation Toxicity rat</b>	Low toxicity.

**OTHER TOXICOLOGICAL INFORMATION****Other Health Effects**

<b>Inhalation</b>	Vapours may cause dizziness and drowsiness.
<b>Ingestion</b>	May cause dizziness and drowsiness if swallowed.
<b>Eyes</b>	Irritating to the eyes, including burning sensation, redness, swelling and/or blurred vision.
<b>Skin</b>	Irritating on the skin may result in contact dermatitis. Repeated or prolonged exposure may cause skin dryness or cracking.
<b>Carcinogenicity</b>	Not carcinogenic in animal studies.
<b>Mutagenicity</b>	Not mutagenic in animal studies
<b>Reproductive Toxicity</b>	No data available.

**ECOLOGICAL INFORMATION**

<b>Environment</b>	Harmful to aquatic organisms (R52). May cause long – term adverse effects in the aquatic environment (R53).
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**DISPOSAL CONSIDERATIONS**

Collect all residues and placed into labelled and sealed containers. Do not incinerate empty containers after use. Dampen all unwanted cloths and rags in water prior to disposal. Do not recycle contents or spent containers. Crush all small empty containers. Larger containers and drums may be sent to an approved drum recycler. Ensure all contents do not pollute waterways, drains and other water courses.

**TRANSPORT INFORMATION**

<b>UN number</b>	1219		
<b>Proper Shipping Name</b>	ISOPROPANOL (ISO PROPYL ALCOHOL)		
<b>Class</b>	3	<b>Subsidiary Risk</b>	Not Required
<b>Packing Group</b>	II	<b>Initial Emergency Response Guide</b>	14
<b>Emergency Procedures</b>	3300		
<b>HAZCHEM</b>	2[Y]E		
<b>IMDG</b>	Not Known		

**REGULATORY INFORMATION**

<b>SUSDP</b>	Not classified as a Schedule poison.
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**OTHER INFORMATION****Emergency  
Contact  
Disclaimer****Poisons Information Centre 13 11 26****HiChem Paint Technologies  
(03) 9796 3400**

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