

## Section 1. Identification of the material and the supplier

Product: **ISOPROPYL ALCOHOL**  
 Product Code: IPA / IPA-5 / IPA-20  
 Product Use: Industrial strength cleaning agent.  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Glasscorp Limited**

Address: **124 Bush Road  
 Albany  
 Auckland  
 New Zealand**

Telephone: 09 415 6338  
 Fax Number: 09 415 6339  
 Email: sales@glasscorp.co.nz  
 Website: www.glasscorp.co.nz

**Emergency Telephone: 09 415 6338 or 0800 764 766 (National Poison Line)**

Date of MSDS Preparation: 06 June 2015 - Version 2

## Section 2. Hazards Identification

This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

EPA Approval Code and Group Standard: Solvents (Flammable hazard) HSR002650

Pictograms:



Flammable



Irritant

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Category 2
6.1E	H303	May be harmful if swallowed.	Category 5
6.3B	H316	Causes mild skin irritation.	Category 3
6.4A	H319	Causes serious eye irritation.	Category 2A

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P204	Read SDS before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting.

P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P303+ P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry chemical, carbon dioxide (CO <sub>2</sub> ), water fog or foam

Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations

### Section 3. Composition / Information on Ingredients

Ingredients	%wt	CAS
Isopropyl Alcohol	100%	67-63-0

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs: Get medical advice/attention.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Highly Flammable Liquid. Vapours may form explosive mixtures with air.
<b>Hazards from combustion products</b>	May evolve toxic gases (carbon oxides and hydrocarbons) when heated to decomposition.
<b>Suitable Extinguishing media</b>	Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

<b>Precautions for firefighters and special protective clothing</b>	Fire fighters should wear full protective clothing and self-contained breathing apparatus. Flammable. Keep storage tanks, pipelines, fire exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire hazard. Heating can cause expansion or decomposition leading to violent rupture of containers. Do not use water as a jet! Do not allow run off to enter drains or watercourses.
<b>HAZCHEM CODE</b>	
	<b>2YE</b>

## Section 6. Accidental Release Measures

If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, neoprene/nitrile gloves, a Type A (Organic vapour) respirator (where inhalation risk exists), coveralls, an apron and boots. Evacuate unprotected personnel. Isolate sources of ignition. Isolate source of leak. Ventilate area where possible. Have a fire extinguisher readily available during clean up. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitably labelled containers (flammable waste) for disposal by a registered waste disposal contractor. Use only non-sparking tools during clean up. Do not allow spills to enter drains or waterways. Contact local environmental protection officer if any material enters the drains, sewers or waterways.

## Section 7. Handling and Storage

### Precautions for safe handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

### Precautions for safe storage:

- Store in a well-ventilated place. Keep cool.
- Store away from strong oxidisers.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	CAS # (a)	TWA		STEL	
		ppm(b)	mg/m <sup>3</sup> (c)	ppm(b)	mg/m <sup>3</sup> (c)
ISOPROPYL ALCOHOL	(67-63-0)	400	983	500	1230

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

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**Engineering Controls**

Use in a well ventilated area. Use explosion-proof electrical ventilation and lighting.

**Personal Protection****Respiratory:**

At high vapour levels, wear an Air-line respirator or self-contained Breathing Apparatus (SCBA). If spraying, wear a Type A-Class P1 (Organic vapour and Particulate) Respirator. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator.

**Hand Protection:**

Always wear long sleeves and long trousers or coveralls, enclosed footwear or safety boots and chemical resistant gloves, e.g. nitrile, when handling this product.

**Eye:**

Wear splash-proof goggles with side shields.

<b>Section 9</b>	<b>Physical and Chemical Properties</b>
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<b>Appearance</b>	Clear colourless liquid
<b>Odour</b>	Pleasant
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Boiling Point</b>	82.1 – 82.5°C
<b>Melting Point</b>	-88.90°C
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	12°C
<b>Auto ignition point</b>	+350°C
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure</b>	31.2 mm Hg @ 20°C
<b>Vapour Density</b>	> 1 (Air=1)
<b>Specific Gravity</b>	0.786
<b>Solubilities</b>	Soluble
<b>Partition Coefficient:</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Decomposition Temperature</b>	Not applicable
<b>% Volatile wt/wt</b>	100%
<b>Evaporation Rate</b>	Not applicable

<b>Section 10.</b>	<b>Stability and Reactivity</b>
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<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Heat and ignition sources.
<b>Incompatible Materials</b>	Incompatible with oxidising agents (e.g. peroxides), acids (e.g. sulphuric acid), active metals (e.g. aluminium, potassium, magnesium), and heat and ignition sources.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to Decomposition.

<b>Section 11</b>	<b>Toxicological Information</b>
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**Acute Effects:**

<b>Swallowed</b>	May be harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Causes severe irritation to eyes.
<b>Skin</b>	Causes mild skin irritation.

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**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

**Section 12. Ecotoxicological Information**

**HSNO Classifications:** Not classified as an ecotoxic substance.

**Environmental Precautions.** Avoid release to the environment.

**Environmental Fate:**

**SOIL:** Isopropanol will both evaporate quickly and leach into the ground due to its high vapour pressure and Low adsorption to soil. If soil degradation is not rapid, it is apt to leach into the groundwater.

**WATER:** Will volatilize when released into water (estimated half-life ~5.4 days) and may biodegrade.

**ATMOSPHERE:** Photodegradation (estimated half-life of one to several days) will occur. Due to its solubility in water, rainout may be significant.

**Section 13. Disposal Considerations**

For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result. Legislation Dispose of in accordance with relevant local legislation.

**Section 14 Transport Information**

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012

**Transport Pictograms:****Road and Rail Transport**

UN No.	1219
DG Class	3
Subsidiary Risk(s)	None Allocated
Hazchem Code	2Y (E)
Pkg Group	II
EPG	3A1
Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)

**Air Transport**

UN No.	1219
DG Class	3

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Subsidiary Risk(s) None Allocated  
 Hazchem Code 2Y (E)  
 Pkg Group II  
 EPG 3A1  
 Shipping Name ISOPROPANOL (ISOPROPYL ALCOHOL)

**Marine Transport**

UN No. 1219  
 DG Class 3  
 Subsidiary Risk(s) None Allocated  
 Hazchem Code 2Y (E)  
 Pkg Group II  
 EPG 3A1  
 Shipping Name ISOPROPANOL (ISOPROPYL ALCOHOL)

**Section 15 Regulatory Information**

EPA Approval Code: Solvents (Flammable hazard) - HSR002650

HSNO Classification: 3.1B 6.1E(oral), 6.3B, 6.4A

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	≥250L if container is >5L ≥500L if container is <5L
Location Certificate	100L(>5L), 250L(<5L), 50L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L (3.1B)
Emergency Response Plan trigger Quantities	1000L (3.1B)
Restriction of use	None

**Section 16 Other Information**

1. Hazardous Substances Data Bank (HSDB), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>).
2. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

**Disclaimer**

This document has been issued by Glasscorp Limited and serves as the product Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Glasscorp Limited by the Manufacturer and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Glasscorp Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Glasscorp Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Glasscorp Limited, if further information is required.

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