



## SAFETY DATA SHEET

PRODUCT NAME: ISO PROPYL ALCOHOL

July 2013

### IDENTIFICATION

**Product Name:** Iso Propyl Alcohol  
**Other Names:** IsoPropanol, IPA, 2-Propanol; Isopropan-2-ol.  
**Product Code:** ZIPROP, CIP4, CIP10, CIP20  
**Uses:** Industrial solvent.

**Supplier:** HamChem Hamilton Chemicals Ltd, 355 Kahikatea Drive, Hamilton  
Phone: 078475840, Fax 078475882, info@hamchem.co.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

### HAZARD IDENTIFICATION

#### DANGER

**Highly flammable**

**Keep out of reach of children**

**Read label and SDS thoroughly before use.**

**HSNO Classifications:** 3.1B, 6.1E, 6.3B, 6.4A

**Transport:** 3

**Hazard Statements:** Highly flammable liquid and vapour. May be harmful if swallowed, inhaled or in contact with skin. Causes mild skin and serious eye irritation.

**Precautions:** Keep away from heat/sparks/open flame/hot surfaces. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof electrical/ventilating/lighting equipment. Use only non sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash all parts of the body that have come into contact thoroughly after handling. Do not breathe dust/fume/gas/mist/vapour/spray. Do not eat, drink or smoke while using this product.

### COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Iso Propyl Alcohol	67-63-0	100

### FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone New Zealand 0 800 764766) or a doctor.

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<b>PRODUCT NAME:</b>
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**Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm.

Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

**Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

**Eye Contact:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

**Medical attention and special treatment:** Treat symptomatically.

### **SYMPTOMS AND EFFECTS, ACUTE AND DELAYED, FROM EXPOSURE**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs.

**Eye contact:** An eye irritant.

**Skin contact:** Contact with skin will result in mild irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

**Inhalation:** Breathing in vapour may produce respiratory irritation. Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Long Term Effects:** No information available for the product.

<b>FIRE FIGHTING MEASURES</b>
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**Hazards from combustion products:** Highly flammable liquid. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back.

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**Precautions for fire fighters and special protective equipment:** All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning will emit toxic fumes, including those of oxides of carbon . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**Suitable Extinguishing Media:** Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Unsuitable Extinguishing Media:** DO NOT USE the following as extinguishing media: Water jets.

## ACCIDENTAL RELEASE MEASURES

**Emergency procedures:** Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and materials for containment and clean up:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

## HANDLING & STORAGE

**Precautions for safe handling:** Avoid skin and eye contact and breathing in vapour. Keep out of reach of children.

**Conditions for safe storage:** Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## EXPOSURE CONTROLS & PERSONAL PROTECTION

### Exposure standards:

Isopropyl alcohol: WES-TWA 400 ppm, 983 mg/m<sup>3</sup>;  
WES-STEL 500 ppm, 1,230 mg/m<sup>3</sup>

**Engineering controls:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. If inhalation risk exists: Use with local exhaust ventilation or while wearing organic vapour respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

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**Personal protective equipment:** Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If risk of inhalation exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Clear Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Ethanol / Acetone - like
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>8</sub> O
<b>Solubility:</b>	Miscible in water.
<b>Specific Gravity:</b>	0.78 @20°C
<b>Relative Vapour Density (air=1):</b>	2.1 @20°C
<b>Vapour Pressure (20 °C):</b>	4.4 kPa
<b>Flash Point (°C):</b>	12 (CC)
<b>Flammability Limits (%):</b>	2-12.7
<b>Auto ignition Temperature (°C):</b>	399
<b>% Volatile by Volume:</b>	100
<b>Boiling Point/Range (°C):</b>	82-83
<b>pH:</b>	Not available
<b>Evaporation Rate:</b>	1.5 (n-Butyl acetate = 1)
<b>Freezing Point/Range (°C):</b>	-88

## STABILITY & REACTIVITY

**Chemical stability:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Conditions to avoid:** Avoid exposure to heat, sources of ignition, and open flame.

**Incompatible materials:** Incompatible with oxidising agents, strong inorganic acids, halogens, and aldehydes.

**Hazardous decomposition products:** Oxides of carbon.

**Hazardous reactions:** None known.

## TOXICOLOGICAL INFORMATION

### Toxicity data:

Oral LD50 (rat): 5045 mg/kg.

SKIN: Mild irritant (rabbit).

EYES: Moderate irritant (rabbit).

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### ECOLOGICAL INFORMATION

**Ecotoxicity (Aquatic & Terrestrial):**

Fish LC/EC/IC50 > 100mg/L

Aquatic Invertebrates LC/EC/IC50 > 1000mg/L

Algae LC/EC/IC50 > 1000mg/L

Micro-organisms LC/EC/IC50 > 1000mg/L

**Persistence & degradability:** Readily biodegradable meeting the 10 day window criterion.  
Oxidises rapidly by photo chemical reactions in the air.

**Mobility in soil:** If product enters soil, it will be highly mobile and may contaminate groundwater.

### DISPOSAL CONSIDERATIONS

Recover or recycle material if possible. It is the responsibility of the waster generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire.

Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Disposal should be in accordance with applicable local, regional and national laws and regulations.

The preferred method of disposal is treatment by a specialist local service provider.

### TRANSPORT INFORMATION

**Road and Rail Transport**

Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.

**UN No:** 1219

**Class-primary** 3 Flammable Liquid

**Packing Group:** II

**Proper Shipping Name:** ISOPROPANOL

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

### REGULATORY INFORMATION

**HSNO Classifications:** 3.1B, 6.1E, 6.3B, 6.4A

### OTHER INFORMATION

**Key to abbreviations:**

**End of SDS.**

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