



SAFETY DATA SHEET

PRODUCT NAME: ISO PROPYL ALCOHOL

Issue Date: September 24

SECTION 1 IDENTIFICATION

Product Name: Iso Propyl Alcohol
Other Names: Isopropanol, IPA, Propan-2-ol, Propyl alcohol, dimethyl carbinol, 2-Propanol
Product Code: CIP5, CIP20, CIP207
Uses: Industrial solvent.
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Web: www.hamchem.co.nz Email: info@hamchem.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

SECTION 2 HAZARD IDENTIFICATION



GHS Categories

Flammable Liquid – Category 2
Aspiration Hazard – Category 1
Eye Irritation – Category 2

Signal Word: DANGER

Hazard Statements

H225 Highly flammable liquid and vapour.
H304 May be harmful if swallowed and enters airways.
H319 Causes serious eye irritation.

Prevention Statements

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges
P280 Wear protective gloves and protective eye/face protection.
P264 Wash hands thoroughly after handling.

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Response Statements

P101 If medical advice is needed, have product container or label at hand.

P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or Doctor. Rinse mouth with water, P331 Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

P370 + P378 In case of fire: Use water fog or mist or alcohol-resistant foam.

Storage Statement

P403 + P235 Store in well-ventilated place. Keep cool.

P405 Store locked up

Disposal Statement

P501 Dispose of product to a landfill in accordance with any local regulations.

SECTION 3	COMPOSITION & INFORMATION ON INGREDIENTS
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Chemical Entity

Isopropyl Alcohol

CAS No.

67-63-0

Proportion (% w/w)

>99.8

SECTION 4	FIRST AID MEASURES
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Consult the National Poisons Centre, telephone 0800 764 766 [0800 POISON] or a doctor in every case of suspected poisoning. If medical advice is needed, have product container label/photo and Safety Data Sheet at hand.

INGESTION: Rinse mouth with water. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Immediately Call a Poison Centre or doctor for advice.

INHALATION: Move person to fresh air and keep warm and at rest until recovered. Call a Poison Centre or doctor for advice or take to local medical facility if recovery is not rapid.

SKIN: Remove immediately all contaminated clothing. Wash affected area with plenty of water followed by soap and water.

EYES: Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.

NOTES TO PHYSICIAN: Treat symptomatically. Causes central nervous system depression.

SECTION 5	FIRE FIGHTING MEASURES
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Hazchem Code 2YE

FLASH POINT: 12 °C

FLAMMABLE LIMITS: LFL: 2% v/v UFL: 12 % v/v

EXTINGUISHING MEDIA: Use water fog or mist or alcohol-resistant foam. Use dry chemical powder, carbon dioxide, sand or earth for small fires only. Do NOT use water in a jet.

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FIRE & EXPLOSION HAZARDS: In case of fire, avoid breathing smoke. Prevent extinguishing water from getting into the aquatic environment.

SPECIFIC HAZARDS: Vapour is heavier than air, will spread across the ground and distant ignition is possible. Cool fire exposed containers with large quantities of water.

FIRE-FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and personal protection clothing.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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SPILLS: Highly flammable liquid. Vapour forms explosive mixture with air. Isolate hazard area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low-lying areas. Wear personal protective equipment. Avoid contact with skin and eyes. Shut off leak if safe to do so. Remove or isolate ignition sources. Contain spill. Avoid run off into drains or sewers. Do not contaminate watercourses or the ground. Take precautions against static discharge. Bond or ground (earth) all equipment. Ventilate contaminated area. For large spills (more than a drum), recover liquid and transfer by mechanical means to labelled salvage tank that can be sealed for recovery or disposal of product. Do not flush away residues with water. Allow residues to evaporate. Remove any contaminated soil and dispose of safely by waste management company. For small spills, absorb with an appropriate material, e.g. vermiculite, and dispose of waste safely in a labelled sealed container for recovery or disposal. If contamination of drains, sewers or waterways occurs immediately notify Emergency Services (111).

DISPOSAL: Dispose of contaminated waste or product to an approved landfill in accordance with local regulations.

SECTION 7	HANDLING & STORAGE
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HANDLING: Read label before use. Use only in well-ventilated areas. Avoid breathing vapors or direct contact with product. Wear personal protective equipment. Remove ignition sources. Avoid sparks. Electrostatic charge may be generated during pumping with risk of fire. Restrict line viscosity to avoid generation of electrostatic discharge (< 1m/sec until fill pipe submerged to twice its diameter, then < 7 m/sec). Take precautions to use bonded or grounded (earthed) equipment. No Smoking. Do not use compressed air for filling, discharging or handling. Use only in well-ventilated area. Keep container closed when not in use. Wear personal protective equipment to prevent breathing of and contact with product. Wear gloves and protect eyes from splashes. Wash hands and exposed skin after handling.

STORAGE: Ensure all storage areas have adequate fire-fighting equipment. Store in closed original container in a secure cool dry well-ventilated place, away from sunlight, ignition sources, heat, incompatible substances, aerosols, other flammables, oxidizing agents, and corrosives, out of reach of children, and away from food, drink and animal foodstuffs. Vapour heavier than air, take precautions to avoid accumulation in pits and confined spaces. For containers, or container linings use mild steel or stainless steel. For container paints, use epoxy paint or zinc silicate paint.

SECTION 8	EXPOSURE CONTROLS & PERSONAL PROTECTION
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EXPOSURE GUIDELINES: NZ Workplace Exposure Standard (WES) have been set for this substance.

	WES-TWA	WES-STEL
Isopropyl alcohol	400 ppm (983 mg/m ³)	500 ppm (1230 mg/m ³)

ENGINEERING CONTROLS: Use only in a well-ventilated area. A half-face filter mask suitable for organic gases and vapours (boiling point <650C) is recommended. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g., air-borne concentrations are high, risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.

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PERSONAL PROTECTIVE EQUIPMENT (PPE): Wear protective clothing. Safety shoes and boots need to be chemical resistant. Wear appropriate chemical resistant gloves, e.g., butyl rubber and natural rubber. Neoprene rubber and Viton may be suitable for splash or incidental contact. Avoid contact with eyes. Wear chemical goggles if splash or aerosol/mist exposure risk. Refer to the relevant AS/NZ standards for appropriate personal protective equipment.

SECTION 9	PHYSICAL & CHEMICAL PROPERTIES
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Form:	Liquid
Colour:	Clear, colourless
Odour:	Characteristic
Boiling point (°C):	82 - 83
Flash point (°C):	12
Flammability limits in air (%v/v):	2 to 12
Auto ignition temperature (°C):	425
Vapour pressure (Pa at 20°C):	4100
Density at 20°C, g/cc:	0.78 – 0.79
Solubility in water:	Completely miscible
pH:	Not available
Vapour density (air =1):	2 (at 20 °C)
Volatile organic carbon content:	59.9%
Evaporation rate (nBuAc =1):	1.5

SECTION 10	STABILITY & REACTIVITY
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STABILITY (CONDITIONS TO AVOID): Stable under normal storage and use conditions. Avoid heat, sparks, open flames and other ignition sources.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidising agents and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Dependent on conditions under which decomposition (combustion, thermal or oxidative degradation) occurs. A complex mixture of airborne solids, liquids and gases (carbon monoxide, carbon dioxide) will be evolved.

HAZARDOUS POLYMERIZATION: Not known to occur.

SECTION 11	TOXICOLOGICAL INFORMATION
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POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

INGESTION: May be harmful if swallowed.

INHALATION: Avoid inhalation of vapours, spray or mists. May cause irritation to respiratory system. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.

SKIN CONTACT: Mild skin irritant. Prolonged or repeated contact may cause defatting of the skin which could then lead on to dermatitis.

EYE CONTACT: Irritating to eyes. Symptoms can include burning sensation, redness, swelling, and/or blurred vision.

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SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: No other effects noted.

CANCER INFORMATION: Not classified as carcinogen.

TERATOLOGY (BIRTH DEFECTS) AND REPRODUCTIVE DEFECTS: Not classified as 6.8 substance. Causes fetotoxicity in animals at doses which are maternally toxic.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Not a mutagen.

Toxicity data:

Oral, mouse LD₅₀ 3600 mg/kg b.w.

SECTION 12	ECOLOGICAL INFORMATION
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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

ENVIRONMENTAL FATE: This product has not been classified as being ecotoxic.

MOVEMENT AND PARTITIONING: Product is miscible in water.

DEGRADATION AND PERSISTENCE: Not expected to bio accumulate significantly and is readily biodegradable. Product is mobile in soil and may contaminate groundwater. Avoid contamination of drains and waterways. Oxidises rapidly by photo-chemical reactions in air.

SECTION 13	DISPOSAL CONSIDERATIONS
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Recover and recycle product whenever possible. Dispose of waste in accordance with Regional Authority or local council bylaws. Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send clean dry drums to recycler or metal scrap reclaimer. Do not use empty drums for storing other products.

SECTION 14	TRANSPORT INFORMATION
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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

SECTION 15	REGULATORY INFORMATION
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Classified as hazardous under the HSNO Act 1996 according to criteria of Minimum Degrees of Hazard (Threshold) Regulations, 2001.

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

EPA New Zealand Approval Code: HSR001180

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SECTION 16	OTHER INFORMATION
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KEY TO ABBREVIATIONS:

CAS No.	Chemical Abstracts Service Number
EPA	Environmental Risk Management Authority
HSNO	Hazardous Substances & New Organisms
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
WES	Workplace Exposure Standard

REFERENCES:

Chemical Classification and Information database; www.epa.govt.nz
Supplier Safety Data Sheet

End of SDS.

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