

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: *Isopropyl Alcohol - IPA*

Recommended Use: Solvent raw material for cleaning products, use in surface coatings, in cosmetics.

Supplier: TMK Packers Ltd
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Emergency phone: **TMK Packers Ltd**
0800 273 327



2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

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



Signal word: **DANGER**

Hazard Statements:

H225 Highly flammable liquid and vapour.
H303 May be harmful if swallowed.
H316 Causes mild skin irritation.
H320 Causes eye irritation.

Prevention Statements:

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground container and receiving equipment.
P241 Use explosion-proof equipment.



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

Response Statements:

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

P332 + P313 If skin irritation occurs: Get medical advice.

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 occurs: Get medical advice.

P370 + P378 In case of fire: Stop leak if safe to do so.

Storage Statements:

P403 + P235 Store in a well-ventilated.
P405 Store locked up.

Disposal Statement:

P501 Dispose of product and containers in accordance with local regulations.

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%)
Isopropyl alcohol	67-63-0	100

4. FIRST AID MEASURES

For advice, contact National Poisons Centre (0800 POISON; 0800 764 766) or a doctor.
Have product container or label available.

Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain medical advice.

Skin Contact

If skin contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation persists, get medical attention.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes and continue rinsing. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and rest until recovered. Get medical attention if symptoms continue. Begin artificial respiration if breathing has stopped. Get immediate medical attention.



First Aid facilities

Provide eye baths and safety showers close to areas where splashing may occur.

Advice to Doctor

Treat according to symptoms. Gastric lavage may be indicated if ingested. Any product aspirated during vomiting may produce lung injury.

5. FIRE FIGHTING MEASURES

Flashpoint: 12°C
Flammable limits: LFL: 1.8% UFL: 12.0%

Extinguishing media:

Dry chemical or foam.

Fire & Explosion hazards:

Liquid and vapours are highly flammable. Do not breathe smoke, gases or vapours generated in a fire. Expansion or decomposition of containers may lead to violent rupture of containers.

Firefighting Equipment:

Full protective clothing and self-contained breathing apparatus (SCBA).

In event of fire:

- ☐ Alert Fire Bridge (111); advise location and nature of hazard.
- ☐ Wear breathing apparatus and protective gloves.
- ☐ Shut off product that may 'fuel' a fire if safe to do so.
- ☐ If safe, switch off electrical equipment until vapour hazard removed.
- ☐ Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- ☐ Prevent product and extinguishing media from escaping to drains and waterways.

Hazards from combustion products: Carbon dioxide, carbon monoxide.

Hazchem Code: 2YE

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity"

Minor spills

- ☐ Remove or eliminate all ignition sources.
- ☐ Clean up spills immediately.
- ☐ Avoid breathing vapours and contact with skin and eyes.
- ☐ Wear personal protective equipment.
- ☐ Contain and absorb small quantities with vermiculite or other absorbent material.
- ☐ Collect residues and waste material in a labeled container suitable for flammables.
- ☐ Seal container and dispose of it safely.

Major spills

- ☐ Clear area of personnel and move upwind.
- ☐ Alert Fire Bridge (111); advise location and nature of hazard.
- ☐ Wear breathing apparatus plus protective gloves.
- ☐ Stop leak if safe to do so.

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- Contain spill with sand, earth or vermiculite.
Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Eliminate sources of ignition, naked lights. No smoking.
Increase ventilation.
Water spray or fog may be used to disperse/absorb vapour.
Use only spark-proof tools, e.g. shovels, and explosion-proof equipment, e.g. pumps.
Collect recoverable products into labeled contains for recycling.
Absorb remaining product with sand, earth or vermiculite.
Collect solid residues and seal in labeled drums for disposal.
Wash area and prevent run off into drains.
If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

7. HANDLING AND STORAGE

Precautions for safe handling:

Read product label before use.

This product is highly flammable. Do not open near open flame, sources of heat or ignition.

No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static discharge. Use grounding leads to avoid discharge (electrical spark) spark-free tools and equipment suitable for flammables. Do not use plastic buckets.

Use outdoors or in a well-ventilated area. Wear personal protective equipment. Wash hands with soap and water after handling. Wash protective clothing separate to household laundry.

Conditions for safe storage:

Keep out of reach of children. Store locked up in a cool, dry place away from direct sunlight. This product will fuel a fire in progress. Check containers periodically for leaks or distortion.

Incompatible materials: Natural rubber, butyl rubber, EDPM, polystyrene.

8. EXPOSURE CONTROLS : PERSONAL PROTECTION

Health Exposure Standards:

A Workplace Exposure Standard (WES) has been set by Worksafe New Zealand for this product.

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

Biological limit values: None established

Engineering Controls:

Ventilation:

Use product outdoors or in well-ventilated area. If using product in commercial or industrial situations the use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation in confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment:

Respiratory Protection: Where concentrations in air may exceed the limits described in the Workplace Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.



Eye Protection: Protect eyes from splashes, aerosols or vapour. Always use safety glasses with side shield or goggles where risk of splashing.

Skin/ Body Protection:

Gloves recommended to prevent irritant effects and avoid degreasing/drying of skin. Prevent contact with clothes and skin, e.g. wear an apron or overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear colourless liquid
Odour	-	Non-characteristic
Flash Point	°C	12
Auto-ignition temperature	°C	>350
Boiling Point	°C	82
Specific gravity @ 20°C	g/ml	0.78 – 0.79
Vapour Pressure @ 20°C	mm Hg	4.3
Vapour Density @ 20°C	kPa	Not available
Alkalinity/acidity (as pH)	-	Not applicable
Solubility in Water	% w/w	Miscible

The values listed are indicative of this product's physical and chemical properties.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure.

Conditions to avoid: Sources of heat and ignition, open flames.

Hazardous decomposition products:

No decomposition products except on burning.

See "Fire Fighting Measures" and "Hazardous Reactions".

Hazardous reactions:

Oxidizing agents, metal oxides and halogens. If mixed with MEK and stored, will produce explosive peroxides. Also produces peroxides if mixed with butanol. Peroxide formation will decrease the auto-ignition temperature.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

May be harmful if swallowed. Symptoms of over-exposure include flushes, nausea, vomiting, headaches, dizziness, drowsiness, lowered pulse rate and blood pressure, anesthesia, narcosis, mental depression and coma.

Eye Contact

This product is irritating to the eyes and may result in corneal damage if not promptly treated.

Skin Contact

This product is irritating to skin with short term contact. Prolonged or repeated exposure will increase risk of dryness and cracking of skin.

Inhalation

May be irritating to nose and throat. At high doses (400ppm or more), this product will have narcotic effects.



Chronic Effects

Persons with pre-existing liver or kidney conditions must avoid unnecessary exposure as metabolism in body is similar to ethyl alcohol.

Other Health Effects Information:

No additional information.

Toxicological Information:

Isopropyl alcohol Mouse, oral, LD₅₀ 3600 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity:

Product is not identified as being ecotoxic to aquatic life.

Persistence/degradability:

Not expected to be persistent.

Mobility:

This product is highly volatile and will rapidly evaporate.

Environmental Exposure Standards: Not set.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry. If not recycled, puncture and crush before disposal to landfill. Do not use containers for storing other products.

14. TRANSPORT INFORMATION

UN Number: 1219
Shipping name: ISOPROPANOL
Class: 3
Packing group: II
Hazchem code: 2YE

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group II.
Please consult NZS 5433:2012 Transport of Dangerous Goods on Land for information.



15. REGULATORY INFORMATION

Country/ Region: New Zealand
Inventory: NZIoC
Status: Listed

EPA New Zealand HSNO Approval Code: HSR001180; ISOPROPANOL
Refer to www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Issue number: 6
Date of Issue: 2nd October 2023
Reasons for Issue: 5-year review.
Replaces: 28th March 2019

Abbreviations:

CAS No Chemical Abstracts Number
EPA Environmental Protection Authority
HSNO Hazardous Substances and New Organisms
NZIoC New Zealand Inventory of Chemicals
STEL Short Term Exposure Limit
TWA Time Weighted Average
WES Workplace Exposure Standard

References:

Supplier Material Safety Data Sheets
EPA website: www.epa.govt.nz

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact TMK Packers Ltd.

END OF SAFETY DATA SHEET

