

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Not classified as Hazardous according to criteria of Safe Work Australia and classified as **Dangerous Goods** according to the ADG Code¹

UN NO.....: 1987	D.G. Class.: 3	Pack. Group...: III
HAZCHEM: +3Y	SUB. RISK.: None allocated	SUSMP.....: None allocated

PROPER SHIPPING NAME: ALCOHOLS, N.O.S. (ISOPROPYL ALCOHOL)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Isopropyl alcohol	67-63-0	5-15
Other*	Mixture	to 100

*other ingredients not classified as hazardous or below relevant concentration cut-offs

See Section 8, Exposure Controls / Personal Protection

3. HAZARDS IDENTIFICATION

Highly flammable.

4. FIRST AID MEASURES

- Eyes:** Immediately flush with water for 15 minutes. Consult a physician.
- Skin:** Take off all contaminated clothing. Wash contaminated area with soap and water. Consult a physician if irritation develops or persists. Thoroughly wash contaminated clothing before re-use.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician immediately.
- Ingestion:** Call a physician immediately. Rinse out mouth and give of water to drink. Never give anything by mouth to an unconscious person. A decision to induce vomiting should be made by qualified medical personnel.

5. FIRE FIGHTING MEASURES

Flash Point	32°C (DIN EN 22719) The preparation does not sustain combustion.
Auto-ignition Temperature	Product is not self-igniting.
Lower Explosive Limit	Not specified
Upper Explosive Limit	Not specified

Suitable Extinguishing Media:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards During Fire Fighting:

Flammable liquid. Vapours can travel to a source of ignition and flash back. Explosive mixtures in air may occur at temperatures at or above the flashpoint. If safe to do so, cool endangered containers with water.

Protective Equipment for Fire Fighting:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Provide sufficient ventilation. Eliminate all sources of ignition. Wear personal protective equipment. Do not breathe vapour. Do not allow into drains or waterways. Use non-sparking tools and equipment. Take up with inert absorbent material (e.g. sand, soil). Fill into marked sealable containers. Dispose of empty containers in accordance with federal, state and local laws.

7. HANDLING AND STORAGE

Storage:

FLAMMABLE LIQUID – Store in accordance with dangerous goods requirements.

Keep away from sources of ignition – No smoking. Store away from incompatible materials.

Keep containers tightly closed and store in a cool, well-ventilated area.

Store in a cool, dry place. Protect from heat and light.

Handling:

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Vapours can travel to a source of ignition and flash back. Explosive mixtures in air may occur at temperatures at or above the flashpoint. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapour or mist. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take precautions against static discharge. Use non-sparking tools when transferring. The need for grounding and bonding of containers should be assessed for all product transfers. Container hazardous when empty. Follow all MSDS/label precautions even after the container is emptied. Emptied container retains vapour and product residue. Residual vapours might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Information

Component	Safe Work Australia			
	TWA		STEL	
	(ppm)	(mg/m ³)	(ppm)	(mg/m ³)
Isopropyl alcohol	400	-	500	-

a = not listed

TWA = Time Weighted Average

STEL= Short Term Exposure Limit

Respiratory Protection

In case of vapours/mist, a respiratory protection program meeting Australian and New Zealand

Standards AS/NZS-1716 and AS/NZS-1715 requirements must be followed whenever workplace conditions warrant a respirator's use.

None required if airborne concentrations are maintained below the exposure limit listed in "Exposure Limit Information"

Eye Protection

Use chemical splash goggles (Australian and New Zealand Standard AS/NZS-1337) or approved equivalent. Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection

Impermeable gloves; protective clothing as necessary to prevent skin contact. Remove any contaminated clothing immediately and launder before reuse.

Engineering Controls (Ventilation)

Use explosion-proof local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations. Refer to Australian Standard AS-1668.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour	Colourless, light opaque
State	Liquid
Odour Characteristic	Perfumed
pH	9
Viscosity	Not specified
Specific Gravity (Water = 1)	approx. 0.97
Vapour Density (Air = 1)	Not specified
Vapour Pressure	Not specified
Melting Point	Not determined
Boiling Point	>35°C
Solubility in Water	Fully miscible
Flash Point	32°C (DIN EN 22719)
	The preparation does not sustain combustion.

10. STABILITY AND REACTIVITY

Stability:

This product is stable under normal storage conditions.

Conditions To Avoid:

Heat, and sources of ignition.

Hazardous Decomposition Products:

None when used as directed.

11. TOXICOLOGICAL INFORMATION

- Acute toxicity:

- Primary irritant effect:

- **on the skin:** Frequent and/or persistent contact with skin may cause skin irritation.

- **on the eye:** Slight irritant effect possible.

- **Sensitization:** No sensitizing effects known.

- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

No experimentally found toxicological data are available for this preparation.

12. ECOLOGICAL INFORMATION

Information on Ecology:

Do not allow to enter soil, waterways or waste water.

13. DISPOSAL CONSIDERATIONS

Empty containers may contain flammable product residue. Do not cut, drill, weld or expose containers to sources of ignition. Dispose of in accordance with federal, state and local laws.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods according to the Australian Code For The Transport Of Dangerous Goods By Road And Rail (Seventh Edition). See Section 1.

15. REGULATORY INFORMATION

Labelling in accordance with the Safe Work Australia's "National Code of Practice for the Labelling of Workplace Substances":

Risk Phrases:

R11 Highly flammable.

Safety Phrases:

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

16. OTHER INFORMATION

¹ Australian Code For The Transport Of Dangerous Goods By Road And Rail (Seventh Edition).

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