



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: n-PROPANOL

Company: Recochem Inc. ABN: 69 010 485 999
Address : 1809 Lytton Road, Lytton, Queensland 4178
Phone: (07) 3396 7033 Fax: (07) 3396 7329
Emergency Telephone Number: (07) 3396 7033 Day, After Hours 1300 131 001

Other Names: Propanol, Propyl alcohol, 1-Propanol, n-Propyl alcohol, Propan-1-ol
Manufacturer's Product Code: 16750
Recommended Use: Solvent

SECTION 2 HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA
DANGEROUS ACCORDING TO THE CRITERIA OF THE ADG CODE**

Symbols: F Highly Flammable
Xi Irritant

Risk Phrases: R11 Highly Flammable
R41 Risk of serious damage to eyes
R67 – Vapours may cause drowsiness and dizziness.

Safety Phrases: S2 Keep out of the reach of children
S16 Keep away from sources of ignition – No smoking
S24 Avoid contact with skin
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33 – Take precautionary measures against static discharge
S39 Wear eye/face protection

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients

<i>Chemical Entity</i>	<i>CAS Number</i>	<i>Proportion (%)</i>
n-Propanol	71-23-8	99-100%

SECTION 4 FIRST AID MEASURES

FIRST AID TREATMENT

Swallowed: If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Eye: If in eyes, hold eyes open, flood with water for at least 15 minutes. If redness, burning, blurred vision, or swelling persist transport to nearest medical facility for additional treatment.

Skin: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.

Inhaled: Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing

First Aid facilities: Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

Advice to Doctor: Treat symptomatically.

Additional Information: None available.

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SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Highly flammable liquid. Foam, water spray or fog. Dry chemical powder, carbon dioxide for small fires only. Do not use water in a jet.

Hazards from combustion products: Carbon monoxide and/or Carbon dioxide may be evolved. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Precautions for Fire Fighters and Special Protective Equipment: Wear full protective clothing and self-contained breathing apparatus.

Additional Information: Hazchem code 2[Y]E

SECTION 6 ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations

Spills and Disposal: Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Remove all sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Spills can be converted to non-flammable mixtures by dilution with water.

Methods and Materials for Containment and Clean Up Procedures: For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Retain as contaminated waste. Allow and residues to evaporate or use an appropriate absorbent material and dispose of safely.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling and Storage: Avoid breathing of or contact with material. Use in well ventilated areas. Wash thoroughly after handling. Avoid contact with skin and eyes and clothing. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not store near strong oxidants.

Dispensing: Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

Flammability: Highly Flammable

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard 492mg/m³ (200ppm) TWA (8hr), 614mg/m³ (250ppm) STEL (skin)

Biological Limit Values: No biological limit allocated

Personal Protective Equipment:

Respiratory Protection: In instances where concentrations are likely to exceed exposure limit, an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.

Hand Protection: Use solvent resistant gloves. Nitrile, PVC or neoprene.

Eye Protection: Wear safety Goggles.

Protective Clothing: Use chemical resistant glove/gauntlets, boots and apron.

Engineering Controls: Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists. Keep containers closed when not in use.

SECTION 9 IDENTIFICATION

PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES

Appearance	Colourless Clear Liquid
Odour	Mild alcoholic
pH:	N/A
Vapour Pressure (mmHg @ 20°C):	20.8
Vapour Density (air = 1)	2.1 @ 20 Deg C

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Boiling Point (°C):	97
Freezing/Melting Point (°C):	-127
Solubility in Water	Miscible with water
Specific Gravity (g/ml @ 15°C):	0.81
Flashpoint (°C):	23 (Abel)
Flammability Limits (%):	2.1– 13.5
Auto Ignition Temperature (°C):	412
Percent Volatiles	100

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials: Strong oxidising agents, strong inorganic acids, aluminium and lead.

Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute:

Swallowed: Swallowing can result in nausea, vomiting and central nervous system depression. If victim shows signs of central nervous system depression (like those of drunkenness) there is a greater likelihood of the patient breathing in vomit causing damage to the lungs. LD50 (mice) 6800mg/kg, LD50 rabbit 2825 mg/kg

Eye: A severe eye irritant. Contamination of eyes can result in permanent injury

Skin: Contact with skin will result in mild irritation. Will have a degreasing effect on skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.

Inhaled: Inhalation of vapours or mists may cause irritation to the respiratory system. Breathing in vapours can result in headaches, dizziness, drowsiness, and possible nausea. High concentrations may cause central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Chronic: Limited data suggests prolonged exposure could result in effects on the liver and decrease in body weight.

SECTION 12 ECOLOGICAL INFORMATION

Avoid contaminating waterways

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods: Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number:	1274	Proper Shipping Name:	n-PROPANOL (PROPYL ALCOHOL, NORMAL)
Class:	3	Subsidiary Risk:	None allocated
Packing Group:	II	Hazchem Code:	2[Y]E
Special Precautions for User:	None		

SECTION 15 REGULATORY INFORMATION

Poisons Schedule : Not scheduled

AICS : Listed

Dangerous Goods Initial Emergency Response Guide (SA HB76:2004) : 16

SECTION 16 OTHER INFORMATION

Further Information may be obtained by contacting Recochem on (07) 3308 5200

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

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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.
