

SAFETY DATA SHEET: N-PROPANOL

MSDS No: TMC-AL-1274

1. IDENTIFICATION OF CHEMICAL PRODUCT

Name of substance: n-Propanol **Chemical Family:** Alcohol

Product Description: Colourless liquid

Supplier: **Transmare-Chemie (Singapore) Pte Ltd**
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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable liquid	Category 2
Serious Eye Damage / Irritation	Category 1
Reproductive Toxicity	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

GHS Label Elements

Symbols:



Signal Word(s): Danger

GHS Hazards Statement

Physical Hazards:

H225: Highly Flammable Liquid and Vapor

Health Hazards:

H318: Causes serious eye damage.
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness.
H361: Suspected of damaging fertility of the unborn child

Environmental Hazards: N/A

GHS Precautionary Statement

Prevention:

P201: Obtain special instructions before use.
P202: Do Not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233: Keep container tightly closed.
P235: Keep Cool.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.

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- P243: Take precautionary measures against static discharge.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P303+P361+P353: If on Skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378: In case of fire: Use appropriate media for extinction.
- 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/attention.
- P304+P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+P310: If Swallowed: Call a Poison Center or doctor/physician if you feel unwell.

Storage:

- P403+P235: Store in a well-ventilated place. Keep cool.
- P233: Keep container tightly closed.
- P405: Store locked up.

Disposal

- P501: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

Other Hazards Which Do Not Result in Classification

N/A

Aggravated Medical Condition

N/A

3. COMPOSITION/ INFORMATION ON INGREDIENTS CAS NUMBER: 71-23-8

Chemical Name	CAS Number	Concentration
n-Propanol	71-23-8	>=99.90%

4. FIRST AID MEASURES

Inhalation, Skin Contact, Eye Contact, Ingestion



Medical attention. Emergency shower.



Emergency eyewash.

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5. FIRE FIGHTING MEASURE

Appropriate Extinguishing Media:

- CO₂
- Alcohol Resistance Foam
- Dry Chemical
- Water Fog

Inappropriate Extinguishing Media:

- Water Jet

6. ACCIDENTAL RELEASE MEASURES

- Eliminate ignition sources. Prevent liquid enters sewers, water sources, low area.
- Spill with sand, earth. Dilute contained spill with water. Dispose recover material conforms to local regulation.
- Keep public away.

7. HANDLING AND STORAGE

Storage/ Transport Temperature:
Ambient

Loading/ Unloading Temperature:
Ambient

Ensure all equipment is electrically grounded before beginning transfer operations.
Take precautionary measures against static discharge.
Keep away from heat and sources of ignition.
Avoid breathing mists or vapour. Avoid contact with skin.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control Measures/Ventilation

Use Local exhaust ventilation to control process.
Provide mechanical ventilation of confined spaces.
Use explosion-proof ventilation equipment.

Occupational Exposure Limits (OEL) Values

N/A

Personal Protection



Vapor respirator. Gloves. Goggles. Full suit. Footwear.

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9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State:	Liquid
Form/Color:	Clear / Colourless
Odor:	Alcohol-like
Flash Point (TCC ASTM D56):	22°C
Boiling Point / Range:	97°C
Specific Gravity:	N/A
Density (20°C):	0.802g/ m ³
Freezing/Melting Point:	-126°C
Auto-ignition Temperature:	412°C
Evaporation Rate (n-Bu Acetate=1):	N/A
Vapor Pressure (25°C):	20.3 hPa
Kinematic Viscosity (20°C):	2.24 mm ² /s
Solubility in Water (20°C):	Completely soluble
Explosive Limits (in air):	2.1-19.2vol%
Vapor Density (101.3kPa/air = 1):	2.07
Molecular Weight:	N/A
Coeff. Of Thermal Expansion (liq):	N/A
Odor Threshold:	N/A
pH:	N/A
Material Hygroscopic:	N/A

10. STABILITY AND REACTIVITY	
Hazardous Polymerization: N/A	Conditions to Avoid Polymerization: N/A
Stability: Stable	Conditions to Avoid Instability: N/A
Materials and Conditions to Avoid:	Metal, Oxidizing agents, flammable materials, alkali and metal salt.
Hazardous Decomposition Products:	Carbon dioxide

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11. TOXICOLOGICAL INFORMATION

Inhalation:	Irritation to respiratory tract. May cause dizziness. May affect central nervous system.
Skin Contact:	Defat, dry skin. Low order of toxicity.
Eye Contact:	May cause discomfort to the eyes. Will not injure eye tissue.
Ingestion:	Minimal toxicity, small amounts may cause bronchopneumonia or pulmonary edema.

12. ECOLOGICAL INFORMATION

Environmental Mobility:	Expected to move in soil
Environmental Degradability:	<ol style="list-style-type: none"> 1. Release it to the soil, it is the important mechanism volatilizes from wet soil surface but may volatilize from dry soil surface. 2. Release to water, material cannot be absorbed with suspension or precipitate, it is an important mechanism volatilize from water surface, about 62 hours and 31 days respectively in the half-life the river and lake water. 3. Releasing it to the air, this material will exist in the atmosphere, the vapour will react with the oxyhydrogen free radical, the half-life is 2.9 days.
Ecotoxicity and Bioaccumulation:	Expected organism compress in water is low.

13. DISPOSAL CONSIDERATIONS

- Combine with other materials to indicate another route of disposal.
- Recycle, recover or dispose empty drums through a suitably qualified or licensed contractor.
- Ensure compliance with national and local regulations.
- NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ash less and can be burned directly in appropriate equipment.
- Contact Transmare-Chemie or local Authorities for more information.

14. TRANSPORT INFORMATION

	Land	Sea	Air
Class	3	3	3
Packing Group	II	II	II
UN Number	1274	1274	1274
Transport Document Name	n-Propanol (Propyl Alcohol, Normal)	n-Propanol (Propyl Alcohol, Normal)	n-Propanol (Propyl Alcohol, Normal)

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Others	Hazchem Code: N/A	Marine Pollutant: N/A EmS: F-E,S-D Risk Label: 3	
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15. REGULATORY INFORMATION
Local Regulation

Workplace Safety and Health Act & Workplace Safety and Health (General Provision) Regulations.

Fire Safety Act and Fire Safety (Petroleum and Flammable Materials) Regulations.

16. OTHER INFORMATION
Revision Date on 15th April 2024

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of Transmare-Chemie Company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.