

SAFETY DATA SHEET: METHANOL

MSDS No: TMC-AL-1230

1. IDENTIFICATION OF CHEMICAL PRODUCT

Name of substance: Methanol	Chemical Family: Alcohol
Product Description: Clear, colourless liquid with a faint odour like Ethyl Alcohol.	
Supplier: Transmare-Chemie (Singapore) Pte Ltd No. 12 Soon Lee Road, Singapore 628076 Telephone: (65) 6262 0122 Facsimile: (65) 6262 0112 Email: sales@transmare-chemie.com Website: www.transmare-chemie.com	

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable Liquid	Category 2
Acute Toxicity – Oral	Category 3
Acute Toxicity – Dermal	Category 3
Acute Toxicity – Inhalation	Category 3
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 1

GHS Label Elements

Symbols:



Signal Word(s): Danger

GHS Hazards Statement

Physical Hazards:

H225: Highly Flammable Liquid and Vapor

Health Hazards:

H301: Toxic if swallowed.
H311: Toxic if contacted with skin.
H331: Toxic if inhaled.
H370: Causes damage to organs (Respiratory system)

Environmental Hazards: N/A

GHS Precautionary Statement

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.

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- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink, or smoke while product is in use.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P301+P310: If Swallowed: Call a Poison Center or doctor/physician if you feel unwell.
- P303+P361+P353: If on Skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P307+P311: If Exposed: Call a POISON CENTER or doctor/physician.
- P321: Specific treatment.
- P322: Specific measures
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330: Rinse mouth.
- P363: Wash contaminated clothing before reuse.
- P370+P378: In case of fire: Use appropriate media for extinction.

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: 67-56-1

Chemical Name	CAS Number	Concentration
Methanol	67-56-1	>=99%

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

- Keep container closed, store cool and well-ventilated. Open slowly to control released pressure.
- Keep away from flame, direct sunlight.
- Do not reuse empty containers w/o cleaning. Observe all precautions for empty product containers.

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

ACGIH

- TWA: 200ppm
- STEL: 250ppm

Personal Protection



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

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State:	Liquid
Form/Color:	Clear / Colourless
Odor:	Alcohol-like
Flash Point (TCC ASTM D56):	9°C
Boiling Point / Range:	65°C
Specific Gravity (20.0/20.0):	N/A
Density (20°C):	0.79kg/m ³
Freezing/Melting Point:	-98 °C
Auto-ignition Temperature:	N/A
Evaporation Rate (n-Bu Acetate=1):	N/A
Vapor Pressure (20°C):	126hPa
Viscosity, Kinematic (100°C):	0.3 mm ² /s
Solubility in Water (20°C):	100.00wt%
Explosive Limits (in air):	6-50vol%
Vapor Density (101.3kPa/air = 1):	1.10
Molecular Weight:	32.04g/mol
Coeff. Of Thermal Expansion (liq):	N/A
Odor Threshold:	N/A
pH:	N/A
Material Hygroscopic:	N/A

10. STABILITY AND REACTIVITY

Hazardous Polymerization: No	Conditions to Avoid Polymerization: N/A
Stability: Stable	Conditions to Avoid Instability: N/A
Materials and Conditions to Avoid:	Strong oxidizing agents.avoid sources of ignition.
Hazardous Decomposition Products:	Fumes, Smoke, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Inhalation:	Irritation to respiratory tract. May cause dizziness.
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	May affect central nervous system.
Skin Contact:	Defat, dry skin. Moderate systemic toxicity, damage of the optic nerve may cause loss of vision or total blindness.
Eye Contact:	Severe Irritation. May injured the eye tissue resulting in permanent damage If not removed promptly.
Ingestion:	Moderate toxicity. Small amounts may cause bronchopneumonia or pulmonary edema.

12. ECOLOGICAL INFORMATION

Environmental Mobility:	Substance is water-soluble and remains primarily in water.
Environmental Degradability:	Biodegrade rapidly, removed in wastewater treatment facility.
Ecotoxicity and Bioaccumulation:	Low acute toxicity to aquatic organisms is expected. Long-term adverse effects to aquatic organisms are not expected.

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	1230	1230	1230
Transport Document Name	Methanol, Class 3 UN 1230, PG II (9°C c.c.)	Methanol, Class 3 UN 1230, PG II (9°C c.c.)	Methanol
Others	Hazchem Code: 2WE	Marine Pollutant: No EmS: F-E, S-D Risk Label: 3 (6.1)	

15. REGULATORY INFORMATION

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REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

CH INV
TSCA
DSL
AICS
NZIoC
ENCS
ISHL
KECI
PICCS
IECSC

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.