

SAFETY DATA SHEET: ISOBUTANOL

MSDS No: TMC-AL-1212

1. IDENTIFICATION OF CHEMICAL PRODUCT

Name of substance: Isobutanol **Chemical Family:** Alcohol

Product Description: Clear colourless liquid with pungent alcoholic odor

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

GHS CLASSIFICATION:

Flammable Liquid	Category 3
Serious Eye Damage / Irritation	Category 1
Skin Corrosion / Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3 (Central Nervous System, Respiratory Tract)

GHS Label Elements

Symbols:



Signal Word(s): Danger

GHS Hazards Statement

Physical Hazards:

H226: Flammable Liquid and Vapor

Health Hazards:

H315: Causes skin irritations.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.

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.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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- P264: Wash hands thoroughly after handling.
- 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.
- P304+P340+P312: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call Poison Center/doctor if you feel unwell.
- P332+P313: If Skin Irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P305+P351+P338: If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- 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: 78-83-1

Chemical Name	CAS Number	Concentration
2-Methylpropan-1-ol	78-83-1	>=90% - <= 100%

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

 TWA, PEL: 50 ppm (152 mg/m³) – ACGIH

Personal Protection

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Form/Color:	Clear / Colourless
Odor:	Alcohol-like
Flash Point (TCC ASTM D56):	30 °C
Boiling Point / Range:	108 - 121 °C
Specific Gravity (20.0/20.0):	N/A
Density (20°C):	0.8178g/cm ³
Freezing/Melting Point:	< -60 °C
Auto-ignition Temperature:	500 °C
Evaporation Rate (n-Bu Acetate=1):	0.74
Vapor Pressure (20°C):	11.8hPa
Viscosity (20°C): Viscosity (40°C):	4.0 mPa.s 2.780 mm ² /s
Solubility in Water:	Insoluble
Explosive Limits (in air):	N/A
Vapor Density (101.3kPa/air = 1):	2.55
Molecular Weight:	74.12
Coeff. Of Thermal Expansion (liq):	0.00095 °C
Odor Threshold:	N/A
pH:	5.4
Material Hygroscopic:	N/A
n-Octanol / Water Partition Coefficient:	1.00

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10. STABILITY AND REACTIVITY		
Hazardous Polymerization:	Will not occur	Conditions to Avoid Polymerization: N/A
Stability:	Stable	Conditions to Avoid Instability: Atmospheric
Materials and Conditions to Avoid:	Strong oxidizing agents.	
Hazardous Decomposition Products:	N/A	

11. TOXICOLOGICAL INFORMATION	
Inhalation:	Irritation to respiratory tract. May cause drowsiness or dizziness. May affect central nervous system.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause irritation to the eyes. Might injured eye tissue.
Ingestion:	Minimal toxicity, small amounts may cause bronchopneumonia or pulmonary edema.

12. ECOLOGICAL INFORMATION	
Environmental Mobility:	N/A
Environmental Degradability:	Readily biodegradable.
Ecotoxicity and Bioaccumulation:	N/A

13. DISPOSAL CONSIDERATIONS	
<ul style="list-style-type: none"> - 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	III	III	III
UN Number	1212	1212	1212
Transport Document Name	Isobutyl Alcohol, Class 3, UN1212, PG III (30°C c.c.)	Isobutyl Alcohol, Class 3, UN1212, PG III (30°C c.c.)	Isobutyl Alcohol
Others	Hazchem Code: 3Y	Marine Pollutant: No 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

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONSDSL
AICS
ENCS
ISHL
KECI
PICCS
IECSC
TSCA**16. OTHER INFORMATION****Revision Date on 15 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.