

**SAFETY DATA SHEET: MIBK**

MSDS No: TMC-KT-1245

**1. IDENTIFICATION OF CHEMICAL PRODUCT**

**Name of substance:** Methyl Isobutyl Ketone | **Chemical Family:** Ketone  
**Product Description:** Clear, colourless liquid with a characteristic pungent odor  
**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](mailto:sales@transmare-chemie.com)  
 Website: [www.transmare-chemie.com](http://www.transmare-chemie.com)

**2. HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:**

Flammable Liquid	Category 2
Acute Toxicity – Inhalation	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 3
Carcinogenicity	Category 2

**GHS Label Elements**

**Symbols:**



**Signal Word(s):** Danger

**GHS Hazards Statement**

**Physical Hazards:**

H225: Highly Flammable Liquid and Vapor

**Health Hazards:**

H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H335: May cause respiratory irritation.  
 H351: Suspected of causing cancer

**Environmental Hazards:** Not classified as environmental hazards under GHS criteria.

**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.

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- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P264: Wash hands thoroughly after handling.
- 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: 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.
- 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.
- P370+P378: In case of fire: Use appropriate media for extinction.

**Storage:**

- P403+P235: Store in a well-ventilated place. Keep cool.
- 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/Az

**3. COMPOSITION/ INFORMATION ON INGREDIENTS** CAS NUMBER: 108-10-1

Chemical Name	CAS Number	Concentration
Methyl Isobutyl Ketone	108-10-1	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:**

- CO<sub>2</sub>
- 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: 50 ppm Singapore PELs
- STEL: 75 ppm Singapore PELs

**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:	Sweet
Flash Point (TCC ASTM D93 - 85 closed cup):	14°C
Boiling Point Range:	115.9°C
Specific Gravity (20.0/20.0):	N/A
Density (20°C):	0.799g/cm <sup>3</sup>
Freezing/Melting Point:	-80°C
Auto-ignition Temperature:	N/A
Evaporation Rate (n-Bu Acetate=1):	N/A
Vapor Pressure (20°C):	18.8 hPa
Viscosity (20°C):	N/A
Solubility in Water (20°C):	Immiscible
Explosive Limits (in air):	1.2 – 8.0vol%
Vapor Density (101.3kPa/air = 1):	3.46
Molecular Weight:	N/A
Coeff. Of Thermal Expansion (liq):	N/A
Odor Threshold:	N/A
pH:	N/A
Material Hygroscopic:	N/A
Kinematic Viscosity (20 °C)	0.777 mm <sup>2</sup> /s
Log Pow: (n-Octanol / Water Partition Coefficient)	N/A
Volatile Organic Compounds (VOC):	N/A

10. STABILITY AND REACTIVITY	
<b>Hazardous Polymerization:</b> May form explosive peroxides.	<b>Conditions to Avoid Polymerization:</b> N/A
<b>Stability:</b> Stable	<b>Conditions to Avoid Instability:</b> N/A
<b>Materials and Conditions to Avoid:</b>	Strong oxidizing agents. Reducing Agents Heat, Flames and Sparks
<b>Hazardous Decomposition Products:</b>	Carbon Oxides

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**11. TOXICOLOGICAL INFORMATION**

<b>Inhalation:</b>	Irritation to respiratory tract. May cause dizziness. May affect central nervous system.
<b>Skin Contact:</b>	Defat, dry skin. Low order of toxicity.
<b>Eye Contact:</b>	May cause irritation to the eyes. Might injured eye tissue.
<b>Ingestion:</b>	Minimal toxicity, small amounts may cause bronchopneumonia or pulmonary edema.

**12. ECOLOGICAL INFORMATION**

<b>Environmental Mobility:</b>	N/A
<b>Environmental Degradability:</b>	N/A
<b>Ecotoxicity and Bioaccumulation:</b>	N/A

**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**

	<b>Land</b>	<b>Sea</b>	<b>Air</b>
<b>Class</b>	3	3	3
<b>Packing Group</b>	II	II	II
<b>UN Number</b>	1245	1245	1245
<b>Transport Document Name</b>	Methyl Isobutyl Ketone, Class 3, PG II, UN1245, (14°C c.c.)	Methyl Isobutyl Ketone, Class 3, PG II, UN1245, (14°C c.c.)	Methyl Isobutyl Ketone
<b>Others</b>	<b>Hazchem Code:</b> 3YE	<b>Marine Pollutant:</b> No <b>EmS:</b> F-E, S-D <b>Risk Label:</b> 3	

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**15. REGULATORY INFORMATION****Complies with national/regional chemical inventory requirements:**

TSCA

DSL

AICS

NZIoC

ENCS

Inv of Exist. Chem. Substances in China

**16. OTHER INFORMATION****Revision Date: 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.