

SAFETY DATA SHEET: MEK

MSDS No: TMC-KT-1193

1. IDENTIFICATION OF CHEMICAL PRODUCT

Name of substance: Methyl Ethyl Ketone **Chemical Family:** Ketone

Product Description: Clear, colourless liquid with a characteristic pungent odour

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

GHS CLASSIFICATION:

Flammable Liquid	Category 2
Eye Irritation	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 3 (Central Nervous System)

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.
H336: May cause drowsiness or dizziness.

Environmental Hazards: Not Classified as Environmental hazard according to 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.
P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P264: Wash hands thoroughly after handling.

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P271:	Use only outdoors or in a well-ventilated area.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
Response:	
P370+P378:	In case of fire: Use appropriate media for extinction.
P304+P340:	If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P314:	Get medical advice/attention 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.
P303+P361+P353:	If on Skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P302+P352:	If on Skin: Wash with plenty of soap and water.
P332+P313:	If Skin Irritation occurs: Get medical advice/attention.
P362+P364:	Take off contaminated clothing and wash before reuse.
P307+P311:	If Exposed: Call a POSION 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: 78-93-3
Chemical Name	CAS Number	Concentration
Methyl Ethyl Ketone	78-93-3	>=99.75%

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

Recommendation of the Japan Society for Occupational Health (2015): 200ppm
ACGIH (2012):
TLV-TWA: 200ppm BEI
TLV-STEL: 300ppm BEI

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:	Characteristic odor
Flash Point (TCC ASTM D93-85 closed cup):	-7.5°C
Boiling Point / Range:	80°C
Specific Gravity(20.0/4.0):	0.805
Density (15°C):	0.805g/cm ³
Freezing/Melting Point:	-86°C
Auto-ignition Temperature:	N/A
Evaporation Rate (Ether=1):	N/A
Vapor Pressure (25°C):	127 hPa
Viscosity, kinematic (20°C):	0.42 mm ² /s
Solubility in Water (20°C):	Soluble
Explosive Limits (in air):	1.5vol% - 11.5vol%
Vapor Density (101.3kPa/air = 1):	2.48
Molecular Weight:	72g/mol
Coeff. Of Thermal Expansion (liq):	N/A
Odor Threshold:	N/A
pH:	N/A
Material Hygroscopic:	N/A
Log Pow: (n-Octanol/Water Partition Coefficient)	N/A

10. STABILITY AND REACTIVITY	
Hazardous Polymerization: Will not occur	Conditions to Avoid Polymerization: N/A
Stability: Stable	Conditions to Avoid Instability: N/A
Materials and Conditions to Avoid:	Strong oxidizing agents. Incompatible with acids. Halogenated compounds Heat, Flames and sparks
Hazardous Decomposition Products:	Carbon Oxides

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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:	N/A
Environmental Degradability:	N/A
Ecotoxicity and Bioaccumulation:	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

	Land	Sea	Air
Class	3	3	3
Packing Group	II	II	II
UN Number	1193	1193	1193
Transport Document Name	Methyl Ethyl Ketone, Class 3, PG II (-7.5°C) c.c.	Methyl Ethyl Ketone, Class 3, PG II (-7.5°C) c.c.	Methyl Ethyl Ketone
Others	Hazchem Code: 2YE	Marine Pollutant: N/A EmS: F-E, S-D Risk Label: 3	

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15. REGULATORY INFORMATION**Material is hazardous according to UN GHS Criteria****REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS**

Listed or exempted from listing/notification on the following chemical inventories:

(May contain substance(s) subject to notification to the

EPA Active TSCA Inventory prior to import to USA)

- AICS
- DSL
- ENCS
- IECSC
- ISHL
- KECI
- NZIoC
- PICCS
- TSCA

16. OTHER INFORMATION**Revision Date on 13 February 2025**

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.