

SAFETY DATA SHEET: XYLENE

MSDS No: TMC-AR-1307

1. IDENTIFICATION OF CHEMICAL PRODUCT

Name of substance: Xylene **Chemical Family:** Aromatic Hydrocarbon

Product Description: Clear, colourless liquid.

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

GHS CLASSIFICATION:

Flammable Liquid	Category 3
Acute Toxicity – Inhalation	Category 4
Skin Corrosion / Irritation	Category 2
Serious Eye Damage / Irritation	Category 2
Carcinogenicity	Category 2
Toxic to Reproduction	Category 1B
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 1 (Central Nervous System, Respiratory Organs)
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3 (Central Nervous System, Respiratory Organs, Respiratory Tract Irritation)
Specific Target Organ Systemic Toxicity (Repeated Exposure)	Category 1 (Central Nervous System)
Specific Target Organ Systemic Toxicity (Repeated Exposure)	Category 2 (Auditory Organs)
Aspiration Hazard	Category 1
Acute Hazard to Aquatic Environment	Category 1
Chronic hazard to Aquatic Environment	Category 2

GHS Label Elements

Symbols:



Signal Word(s): Danger

GHS Hazards Statement

Physical Hazards:

H226: Flammable Liquid and Vapor

Health Hazards:

H332: Harmful if inhaled.

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- H315: Causes skin irritations.
H319: Causes serious eye irritation.
H351: Suspected of causing cancer.
H360: May harm fertility or unborn child.
H370: Causes damage to organs (Central Nervous System and Respiratory Organs)
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H373: May cause damage to central nervous system through prolonged or repeated exposure.
H373: May cause damage to auditory organs through prolonged or repeated exposure.
H304: May be fatal if swallowed or enters airways.

Environmental Hazards:

- H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

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.
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.
P270: Do not eat, drink, or smoke while product is in use.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P301+P312: If Swallowed: Immediately call a Poison Centre 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.
P302+P352+P332+P313: If on Skin: Wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention.
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+P331: If eye irritation persists: Get medical advice/attention.
P307+P311: If Exposed: Call a POSION CENTER or doctor/physician if you feel unwell.
P308+P313: If exposed or concerned: Get medical advice/attention.
P264: Wash hands thoroughly after handling
P331: Do Not induce vomiting.
P391: Collect spillage.
P304+P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362+P364: Take off contaminated clothing and wash before reuse.
P306+P360: If skin irritation occurs: Get medical advice/attention.

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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/A

3. COMPOSITION/ INFORMATION ON INGREDIENTS CAS NUMBER: 1330-20-7

Chemical Name	CAS Number	Concentration
Ethyl Benzene	100-41-4	45-69%
m-Xylene	108-38-3	15-30%
p-Xylene	106-42-3	6-13%
o-Xylene	95-47-6	7-15%
Toluene	108-88-3	0-0.1%

4. FIRST AID MEASURES

Inhalation, Skin Contact, Eye Contact, Ingestion



Medical attention. Emergency shower.



Emergency eyewash.

5. FIRE FIGHTING MEASURE

Appropriate Extinguishing Media:

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

Inappropriate Extinguishing Media:

- Water Jet

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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

- Ethyl Benzene
 - PEL (Short Term) (Singapore): 125ppm (543mg/m³)
 - PEL (Long Term) (Singapore): 100ppm (434mg/m³)
 - TLV: 20ppm as TWA; A3 (ACGIH)
 - PEL: 100ppm (OSHA Z-1)
- Xylene
 - PEL (Short Term) (Singapore): 150ppm (651mg/m³)
 - PEL (Long Term) (Singapore): 100ppm (434mg/m³)
 - TLV: 100ppm as TWA; 150ppm as STEL; A4 (ACGIH)
 - PEL:100ppm (435mg/m³) (OSHA Z-1)
- Toluene
 - PEL (Long Term) (Singapore); 50ppm (188mg/m³)
 - TLV: 20ppm (75mg/m³) as TWA; (ACGIH)
 - PEL: 200ppm as TWA (OSHA Z-2)

Personal Protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Form/Color:	Clear / Colourless
Odor:	Aromatic odor
Flash Point (TCC ASTM D56):	27 °C
Boiling Point Range:	139-141 °C
Specific Gravity(15.5/15.5):	0.87
Density (15°C):	N/A
Freezing/Melting Point:	-35 °C
Auto-ignition Temperature:	Approx. 500 °C
Evaporation Rate (n-Bu Acetate=1):	0.80
Vapor Pressure (38°C):	1.893kPa
Viscosity (25°C):	0.69cSt
Solubility in Water (25°C):	0.02wt%
Explosive Limits (in air):	1.9-12.3vol%
Vapor Density (101.3kPa/air = 1):	3.7
Molecular Weight:	N/A
Coeff. Of Thermal Expansion (liq):	N/A
Odor Threshold:	N/A
pH:	N/A
Material Hygroscopic:	No

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:	Temperature above ambient, ignition sources, Strong oxidizing agents

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Hazardous Decomposition Products:	Carbon Monoxide, 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:	Highly mobile if enters soil. May contaminate groundwater. Product floats on water.
Environmental Degradability:	Biodegrade readily. Removed in wastewater treatment facility. Oxidises rapidly by photochemical reactions in air.
Ecotoxicity and Bioaccumulation:	Does not bioaccumulate significantly.

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	III	III	III
UN Number	1307	1307	1307

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Transport Document Name	Xylenes, Liquid, Class 3, PG III, (27 °C c.c.)	Xylenes, Liquid, Class 3, PG III, (27 °C c.c.)	Xylenes
Others	Hazchem Code: 3Y	Marine Pollutant: No EmS: F-E, S-D Risk Label: 3	
Transport in Bulk (Annex II of MARPOL 73/78 and the IBC Code) Pollution Category: Y Ship Type: 2 Product Name: Xylenes			

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Local Regulation

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

Regulations:

This product is subjected to the SDS, Labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations:

This Product is not subjected to control under this Act/Regulation.

Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum & Explosives)

Regulations:

This product is subjected to the requirement of this regulation.

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

This product is subjected to the requirement of this regulation.

16. OTHER INFORMATION
Revision Date: 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.