Tel (09) 273 3753
Tel 0800 27 33 27
orders@tmkpackers.co.nz
www.tmkpackers.co.nz

22 Trugood Drive East
Tamaki Auckland 2013
PO Box 258 031
Botany Auckland 2163

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name:	**XYLENE**
Recommended Use:	Raw material in paint and resin manufacture, solvent in formulated pesticides/insecticides, printing inks, adhesives
Supplier:	TMK Packers Ltd
Address:	22 Trugood Drive, East Tamaki, Auckland 2013 PO Box 258 031, Botany, Auckland 2163
Telephone:	(+64) 9 273 3753
Facsimile: Website:	www.tmkpackers.co.nz
Emergency phone:	0800 273327 (TMK Packers Ltd 24 Hr)
National Poisons Centre:	0800 POISON [0800 764 766]

2. HAZARDS IDENTIFICATION

Hazardous Nature:
This product is classified as hazardous under GHS (7th revised edition) in accordance with the New Zealand Hazardous Substances (Hazard Classification) Notice 2020.

GHS Classifications:
Flammable liquids, Cat. 3; Acute toxicity - Oral, Cat. 4; Acute toxicity - Dermal, Cat. 4; Skin corrosion/irritation, Cat. 2; Serious eye damage/eye irritation, Cat. 2; Reproductive toxicity, Cat. 2; Specific target organ toxicity - repeated exposure, Cat. 2

GHS Pictograms:



Signal word: **WARNNG**

Hazard Statements:
H226 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Prevention Statements:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, open flames, hot surfaces. No smoking.



P233: Keep container tightly closed.
P240: Ground/bond containers 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
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves and eye protection.

Response Statements:
P312: IF ON SKIN: Wash with plenty of water.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment (see label).
P330: Rinse mouth.
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352: IF ON SKIN: wash with plenty of water.
P303 + P361 + P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P370 + P378: In case of fire: Use Dry chemical or alcohol foam or CO2 to extinguish.

Storage Statements:
P403 + P235; Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal Statements:
P501: Dispose of waste in accordance with Regional Authority or local council regulations.

3. COMPOSITION INFORMATION

Chemical Ingredient	CAS No.	Proportion (%)
Xylene (and isomers)	1330-20-7	100
may contain ethylbenzene (10 – 30%)	100-41-4	

4. FIRST AID MEASURES

For advice, contact the National Poisons Centre (0800 POISON; 0800 764 766) or a doctor. Have product container or label available.

Swallowed
If swallowed, do NOT induce vomiting. Rinse mouth. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.

Skin Contact
If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation persists, get medical attention. Wash contaminated clothing before re-use.

Eye Contact



Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do after the first 5 minutes and continue rinsing. Get medical attention.

Inhalation
Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention is symptoms continue.
Begin artificial respiration if breathing has stopped. Get immediate medical attention.

First Aid facilities
Provide eye baths and safety showers close to areas where splashing may occur.

Advice to Doctor
Treat according to symptoms. Causes central nervous system depression.

5. FIRE FIGHTING MEASURES

Flashpoint: 25^0C (typical)
Flammable limits: LFL: 1.1% UFL: 6.6%

Extinguishing media:
Dry chemical or alcohol foam or CO_2. Do not use water jet.

Fire & Explosion hazards:
Liquid and vapours are highly flammable. Vapour is heavier than air, spreads along the ground and distant ignition is possible. Do not breathe smoke, gases or vapours generated in a fire. Expansion or decomposition of containers may lead to rupture of containers.

Firefighting Equipment:
Full protective clothing and self-contained breathing apparatus (SCBA).

In event of fire:
- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- If safe, switch off electrical equipment until vapour hazard removed.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

Hazards from combustion products: Carbon dioxide, carbon monoxide.

Hazchem Code: 3Y

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:
Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity"

Minor spills:
- Remove or eliminate all ignition sources.
- Clean up spills immediately.
- Avoid breathing vapours and contact with skin and eyes.



- Wear personal protective equipment.
- Contain and absorb small quantifies with vermiculite or other absorbent material.
- Collect residues and waste material in a labeled container suitable for flammables.
- Seal container and dispose of safely.

Major spills:

- Clear area of personnel and move upwind.
- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Eliminate sources of ignition, naked lights. No smoking.
- Increase ventilation.
- Water spray or fog may be used to disperse/absorb vapour.
- Use only spark-proof tools, e.g. shovels, and explosion proof equipment, e.g. pumps.
- Collect recoverable product into labeled contains for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labeled drums for disposal.
- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

7. HANDLING AND STORAGE

Precautions for safe handling:

Read product label before use. This product and vapours are highly flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static discharge. Use grounding leads to avoid discharge (electrical spark) spark-free tools and equipment suitable for flammables. Do not use plastic buckets.
Use outdoors or in well-ventilated area. Wear personal protective equipment. Wash hands with soap and water after handling. Wash protective clothing separate to household laundry.

Conditions for safe storage:

Keep out of reach of children. Store in a cool, dry place away from direct sunlight. This product will fuel a fire in progress. Check containers periodically for leaks or distortion.

Incompatible materials:

Natural rubber, butyl rubber, neoprene or nitrile rubbers, PVC, EDPM, polystyrene.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Health Exposure Standards:

Workplace Exposure Standards (WES) have been set for components in this product.

	WES-TWA	WES-STEL
Xylene	50 ppm (217 mg/m^3)	-
Ethylbenzene	100 ppm (434 mg/m^3)	125 ppm (543 mg/m^3)

Biological limit value:

Xylene, end of shift as methylhippuric acid in urine, 1.5 g/L



Engineering Controls:
Ventilation:
Do not breathe vapours. Use product outdoors or in well-ventilated area. The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation in confined spaces. Use explosion-proof ventilation equipment. Use personal protective respiratory equipment if concentrations in air are unknown, meet or exceed Health Exposure Limits.

Personal Protective Equipment:
Respiratory Protection: It is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product. Where concentrations in air may exceed the limits described in the Workplace Exposure Standards, use an appropriate positive pressure breathing apparatus.

Eye Protection: Protect eyes from splashes or vapour. It is recommended safety glasses with side shields or goggles be worn.

Skin/ Body Protection:
Wear chemical resistant gloves if any risk of contact with liquid. It is also recommended to wear long sleeves and long trousers or coveralls, and chemical resistant shoes or boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear colourless liquid
Odour	-	Aromatic
Flash Point	^{0}C	25 (typical)
Boiling Point	^{0}C	138 - 143
Specific gravity @ 20^{0}C	g/ml	0.87 (typical)
Vapour Pressure @ 20^{0}C	kPa	1.0
Vapour Density @ 20^{0}C	kPa	3.7
Explosive Limits in Air	%	1.1 – 6.6
Alkalinity/acidity (as pH)	-	Not applicable
Solubility in Water	kg/m^3	0.175

The values listed are indicative of this product's physical and chemical properties.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure.
Conditions to avoid: Sources of heat and ignition, open flames.
Hazardous decomposition products: No decomposition products except on burning. See "Fire Fighting Measures" and "Hazardous Reactions".
Hazardous reactions: Strong oxidizing agents, strong acids.
Hazardous polymerization: Not known to occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects
Ingestion
May be harmful if swallowed. Aspiration into the lungs by ingestion or vomiting may result in chemical pneumonitis.

Eye Contact
Irritating to eyes with possible symptoms of redness, swelling, burning sensation and blurred vision.



Skin Contact
Harmful and irritating to skin. Prolonged or repeated exposure may cause dermatitis and will increase risk of dryness and cracking of skin.

Inhalation
Vapour may be irritating to nose and throat. Exposure to high concentrations over an extended time will result in headaches, dizziness and drowsiness and other adverse central nervous system effects.

Chronic Effects:
Causes central nervous system depression. Severe exposure may cause blurred vision, tremors, shallow and rapid breathing, delirium and unconsciousness. Prolonged or repeated exposure may affect liver and kidneys.

Other Health Effects Information:
Both xylene and ethylbenzene are suspected of causing adverse effects on fertility and development. In addition, ethylbenzene is a suspected carcinogen.

Toxicological Information:

Xylene	Oral, LD_{50}, mouse	1590 mg/kg
	Inhalation, LC_{50}, rat	27.6 mg/L
Ethylbenzene	Oral, LD_{50}, rat	3500 mg/kg
	Inhalation, LC_{50}, rat	9.6 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Aquatic toxicity: Product is classified as being ecotoxic to aquatic life with long-lasting effects. Do not discharge product to sewer, drains or waterways.

Ecotoxicity Information:

Xylene	Rainbow trout	EC_{50} (96 hr) 3.3 mg/L
	Palaemonetes pugio (crustacea)	EC_{50} (48 hr) 8.5 mg/L
	Skeletonema costatum (alga)	EC_{50} (72 hr) 10.0 mg/L
Ethylbenzene	*Daphnia magna*	EC_{50} (48 hr) 2.1 mg/L
	Oncorhynchus mykiss (freshwater fish)	EC_{50} (96 hr) 4.2 mg/L
	Selenastrum capricornutum (alga)	EC_{50} (72 hr) 4.6 mg/L

Persistence/degradability: Does not bioaccumulate significantly. Product is expected to rapidly biodegrade. Expected to persist in environment under anaerobic conditions. Oxidizes rapidly by photo-chemical reactions in air. Expected significant risk of oxygen depletion in aquatic systems.

Mobility: Product floats on water. Evaporates rapidly. If product enters soil, it will be mobile and may contaminate ground-water.

Other information: Product is harmful to terrestrial vertebrates.

Environmental Exposure Standards: Not set.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:
Care should be taken to ensure compliance with national, regional and local authority regulations.



Packaging may still contain vapours that are flammable. Ensure that empty packaging is allowed to dry. If not recycled, puncture and crush before disposal to landfill. Do not use container for storage of other products. Dispose of product through waste management facility for solvent recovery or disposal, e.g. by incineration.

14. TRANSPORT INFORMATION

UN Number:	1307
Proper Shipping Name:	XYLENES
Class:	3
Packing group:	III
Hazchem code:	3Y

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group III.
Please consult NZS 5433:2020 Transport of Dangerous Goods on Land for information.



15. REGULATORY INFORMATION

Country/ Region: New Zealand
Inventory: NZ Inventory of Chemicals
Status: Listed

EPA New Zealand HSNO Approval Code: HSR000983; Benzene, dimethyl-, mixed isomers
Refer www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Issue:	9
Date of Issue:	12th March, 2025
Reasons for Issue:	Update GHS classifications, data corrections.
Replaces:	22nd July ,2024

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
AS/NZS	Standards Australia & Standards New Zealand
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service
CCID	Chemical Classification and Information Database
EC50	Effective Concentration, 50 per cent
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GHS 7	Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations
HSNO	Hazardous Substances and New Organisms Act 1996
HSWA	Health and Safety at Work Act 2015



IARC	International Agency for Research on Cancer
IC50	Half Maximal Inhibitory Concentration
LC50	Lethal Concentration, 50 per cent
LD50	Lethal Dose, 50 per cent
LEL	Lower Explosive Limit
LOAEL	Lowest-observed-adverse-effect level N/R: Not Regulated
NOAEL	No-observed-adverse-effect-level
NOEC	No Observed Effect Concentration
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	New Zealand Standard Transport of Dangerous Goods on Land
OECD	Organisation for Economic Co-operation and Development
STEL	Short-Term-Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
UEL	Upper Explosive Limit
WES	Workplace Exposure Limit

References:
Supplier Safety Data Sheets
EPA website: www.epa.govt.nz

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact TMK Packers Ltd.

END OF SAFETY DATA SHEET

