

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: **TMK METHANOL**

Recommended Use: Paint & Resin manufacture, rubber industry, aircraft fuel, motor racing fuel, printing inks, adhesives, antifreeze, denaturant for ethanol and used in gasoline manufacture.



Supplier: TMK Packers Ltd

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Website: www.tmkpackers.co.nz

Emergency phone: **TMK Packers Ltd**
0800 273 327



2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications: 3.1B, 6.1C, 6.4A, 6.8B, 6.9A, 9.3C



Signal word: **DANGER**

Hazard Statements:

H225 Highly flammable liquid and vapour

H301 Toxic if swallowed

H311 Toxic in contact with skin

H331 Toxic if inhaled

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

H433 Harmful to terrestrial vertebrates

Prevention Statements:

P102 Keep out of reach of children.

Product: TMK Haste Methanol
Date of Issue: 15th November 2023, Version 5

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P103 Read label before use.
P201 Obtain special instructions before use.
P202 Do not handle until all safety instructions 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 vapours.
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when handling.
P273 Avoid release to environment.
P280 Wear protective gloves and eye protection. P281
Use personal protection equipment as required.

Response Statements:

P101 If medical advice is needed, have product container or label at hand.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P312 Call a POISON CENTRE or doctor if you feel unwell.

P361 Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before re-use.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTRE or doctor if you feel unwell.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.

+ P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

P308 + P313 If exposed or concerned: Get medical advice.

P370 + P378 in case of fire: Stop leak if safe to do so

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 on Ingredients

Chemical Ingredient	CAS No.	Proportion (%)
Methanol	67-56-1	> 98
Water	7732-18-5	< 2



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. Get 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.

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 if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if recovery is not rapid. If a patient is having difficulty breathing and develops a bluish discoloration of skin (suggesting a lack of oxygen in the blood), ensure airways are clear and have a suitably qualified person give oxygen through a face mask. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Seek immediate medical attention.

First Aid Facilities: Provide eye bath and hand washing facilities.

Advice to Doctor: Treat according to symptoms. Metabolic acidosis may occur up to 12 hours after ingestion. Administration of ethanol reduces toxic effects by blocking the metabolic route to formaldehyde/formic acid production in the body.

5. FIRE FIGHTING MEASURES

Flashpoint: 11-12°C
Flammable limits: LFL: 5.5% UFL: 35.0%

Extinguishing media:

Foam, CO2 or dry chemical. Use water spray or water fog on large fires only.

Fire & Explosion hazards:

Highly flammable liquid and vapour. The vapour forms explosive mixtures with air. Do not breathe smoke, gases or vapours generated in a fire. Decomposition products may be toxic.

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.
- Keep bystanders away.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- Eliminate sources of ignition



- If safe, switch off electrical equipment until vapour hazard removed.
- Use fine water spray to control fire and cool adjacent area.
- 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:

Product will emit toxic fumes of carbon monoxide and carbon dioxide.

Hazchem Code: 2WE

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity".

Minor spills

- Clean up spills immediately.
- Remove all ignition sources.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labelled container.
- 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.
- Eliminate ignition sources, naked lights. No smoking.
- Stop leak if safe to do so.
- Water spray or water fog may be used to disperse or absorb vapour.
- Contain spill with sand, earth or vermiculite.
- Use spark-free shovels and explosion proof equipment.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Increase ventilation.
- Collect recoverable product into labeled contains for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled 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. Use in well-ventilated area. Highly flammable liquid and vapour. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. Do NOT use plastic buckets. Use only spark-free tools. Avoid all personal contact including by inhalation. Wear personal protective



equipment and clothing including gloves and wash hands with soap and water after handling.

Conditions for safe storage:

Store in original packaging in a cool, dry well-ventilated place out of reach of children. Check containers periodically for leaks or distortion.

Incompatible materials:

Natural rubber, butyl rubber, nitrile rubber, EPDM, polystyrene.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Health Exposure Standards:

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

	WES-TWA	WES-STEL
Methanol	200 ppm (262 mg/m ³)	250 ppm (328 mg/m ³)

Biological limit values: Methyl alcohol in urine (end of shift) 15 mg/L

Engineering Controls:

Ventilation: Avoid breathing vapours. Use product outdoors or in well-ventilated area. Wear a SAA approved respirator when using in confined area or where over-exposure risk exists.

Personal Protective Equipment:

Respiratory Protection: Where air concentration may exceed Workplace Exposure Standard, wear SAA approved respiratory protection. A half-filter mask and type 'A' filter material should be suitable. Refer AS/NZS1715 and AS/NZS1716.

Eye Protection: Protect eyes from splashes. Always use safety glasses with side shields, or wear goggles.

Skin/ Body Protection:

Wear gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber, and clothing with long sleeves and long trousers or coveralls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear colourless liquid
Odour	-	Solvent
Flash Point	°C	11 - 12
Specific gravity @ 20°C	g/ml	0.79
Vapour Pressure @ 20°C	kPa	12.26
Vapour Density @ 20°C	kPa	1.1
Explosive Limits in Air	%	5.5 – 35.0
Viscosity	cSt	Not available
Volatiles	%vol/vol	100
Alkalinity/acidity (as pH)	-	Not applicable
Solubility in Water	% w/w	Miscible

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, ignition, open flames.



Hazardous decomposition products: No decomposition products except on burning.
See "Fire Fighting Measures" and "Hazardous Reactions".

Hazardous reactions: Carbon monoxide, carbon dioxide, formaldehyde.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Toxic if ingested. Death may occur if large amounts swallowed. Symptoms of ingestion may include nausea, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, loss of co-ordination, euphoria, visual disturbance, drowsiness and coma. The onset of symptoms may be delayed for several hours. Effects are due partly to acidosis and partly to cerebral oedema. Visual impairment includes blurring, double vision, changes in colour perception, restriction of visual fields and blindness. A fatal dose for most adults is considered to be 60 – 200 ml with as little as 10 ml producing blindness. For overdoses, liver, kidney, heart and muscle injury is apparent.

Eye Contact

This vapour or liquid is moderately irritating to the eyes.

Skin Contact

This product is irritating to the skin with prolonged exposure have a degreasing action that may result in dryness and cracking of skin and lead to irritant contact dermatitis. If absorbed through skin can have toxic effects.

Inhalation

Inhalation of vapour can result in headaches, dizziness, drowsiness and possible nausea. High concentrations can produce central nervous system depression which can lead to loss of co-ordination, impaired judgment and if exposure is prolonged, to unconsciousness.

Chronic Effects

WARNING: Repeated or prolonged exposure based on evidence from animals' studies, indicate this material could result in adverse effects to the central nervous system. This product is only slowly eliminated from the body. Chronic exposure to concentrations greater than 1000 ppm can result in permanent blindness.

Other Health Effects Information

Principal routes of exposure are usually by inhalation of vapour and skin contact/absorption. Minor but regular methanol exposures may affect the central nervous system, optic nerves and retinae. Symptoms may be delayed, with headache, fatigue, nausea, blurring of vision and double vision. Continued or severe exposures may cause damage to optic nerves, which may become severe with permanent visual impairment even blindness.

Toxicological Information:

Methanol	Oral, human LD ₅₀	300 mg/kg b.w.
	Dermal, human LD ₅₀	1000 mg/kg b.w.
	Inhalation, human LC ₅₀ (4hr)	10 mg/kg b.w.
	Oral, mouse LD ₅₀	870 mg/kg b.w.



12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity:

This product has not been classified as being toxic to aquatic life. However, do not discharge product to sewer, drains or waterways.

Persistence/degradability:

Not expected to be persistent or bioaccumulative. Product is highly volatile and will evaporate to air if released into water.

Mobility:

Product is miscible with water.

Other information:

Not available.

Environmental Exposure Standards: Not set

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain flammable vapours.

14. TRANSPORT INFORMATION

UN Number: 1230
Shipping name: METHANOL
Class: 3
Sub-class: 6.1
Packing group: II
Hazchem code: 2WE



Dangerous Goods Segregation

This product is classified as Dangerous Good Class 3. Subsidiary risk 6.1. Please consult NZS 5433:2012 Transport of Dangerous Goods on Land for information.



15. REGULATORY INFORMATION

Country/ Region: New Zealand

Inventory: NZIoC

Status: Listed

EPAA New Zealand Approval Code: HSR001186; Methanol

Refer www.epa.govt.nz for information on Controls.

APPROVED HANDLER required.

16. OTHER INFORMATION

Issue: 5
Date of Issue: 15th November 2023
Reasons for Issue: 5 yearly reviews of
SDSReplaces: 28th March 2019

Abbreviations:

CAS No	Chemical Abstracts Number
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms
NZIoC	New Zealand Inventory of Chemicals
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
WES	Workplace Exposure Standard

References:

Supplier Safety Data Sheet

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

