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:	**MOULD RELEASE OIL**
Recommended Use:	Applied to moulds or forms into which a concrete mix is poured. Specialised grade developed to meet requirements of concrete pipe manufacturers using the centrifugal casting process
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 Category 3, aspiration hazard Category 1, skin sensitisation Category 1, hazardous to the aquatic environment chronic Category 2

GHS Pictograms:

Signal word: **DANGER**

Hazard Statements:
H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long-lasting effects.

Prevention Statements:
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.
P261 Avoid breathing vapours
P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release to environment.
P280 Wear protective gloves and eye protection.

Response Statements:
P321 Specific treatment (see label).
P331 Do NOT induce vomiting.
P391 Collect spillage.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352 IF ON SKIN: wash with plenty of water.
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P333 + P313 If skin irritation or rash occurs: 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 foam extinguishing media.

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 (%)
Naphtha (petroleum), light aromatic	64742-96-6	10 – 30
Naphtha (petroleum), medium aliphatic	64742-88-7	30 – 60
Rosin (colophony)	8050-09-7	5 – 15
Fish oil	8016-13-5	< 5

4. FIRST AID MEASURES

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

Swallowed
If swallowed, do NOT induce vomiting. Rinse mouth. Give a glass of water to drink slowly if person is conscious. Avoid giving milk, oils or alcohol. Never give liquid to person showing signs of drowsiness or if unconscious. Where there is a risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Begin artificial respiration if victim is not breathing. Use mouth to nose rather than mouth to mouth. Get 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.

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

Advice to Doctor: Treat according to symptoms. Risk of aspiration into lungs with potential to cause chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Flashpoint: 40^0C
Flammable limits: LFL: - UFL: -

Extinguishing media:
Foam, CO_2 or dry chemical. Use water spray or water fog on large fires only.

Fire & Explosion hazards:
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, carbon dioxide, nitrogen oxides, smoke..

Hazchem Code: 3Y

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 quantifies 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:
Flammable liquid and vapour. Read product label before use. Use in well-ventilated area. 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:
Oxidizing agents and chlorine products.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Health Exposure Standards:
A Workplace Exposure Standard (WES) has been set by the Occupational Safety and Health Service, NZ Department of Labour for a similar product and a component in this product.

	WES-TWA	WES-STEL
Naphtha (petroleum), light aromatic	25 – 100 ppm (125 mg/m^3)	-
Naphtha (petroleum), medium aliphatic	300 ppm	

Biological limit values: None established

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. Provide mechanical ventilation in confined areas. Use explosion-proof ventilation equipment.

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.

Eye Protection: Protect eyes from splashes. Always use safety glasses with side shields, or wear goggles. Do not wear contact lenses.

Skin/ Body Protection:
Wear chemical resistant 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 yellow liquid
Odour	-	Solvent
Flash Point	^{0}C	40
Specific gravity @ 20^{0}C	g/ml	0.76 – 0.84
Vapour Pressure @ 20^{0}C	mm Hg	Not available
Vapour Density @ 20^{0}C	kPa	>1
Explosive Limits in Air	%	Not available
Viscosity	cSt	Not available
Volatiles	%vol/vol	100
Alkalinity/acidity (as pH)	-	Not applicable
Solubility in Water	% w/w	Immiscible

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 and contact with oxidizing agents, chlorine bleaches, pool chlorine.

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

Hazardous reactions: With oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Swallowing small amounts or from vomiting may cause aspiration into lungs and cause chemical pneumonitis or pulmonary odema. If swallowed, symptoms may include gastrointestinal upsets headaches, nausea, dizziness and tracheal burning.

Eye Contact

This product may be irritating to the eyes resulting in tearing and redness but will not permanently damage eye tissue.

Skin Contact

This product can be mildly irritating to the skin. Prolonged or repeated exposure may defat skin leading to drying, cracking and possibly contact dermatitis.

Inhalation

Vapours may cause discomfort to the upper respiratory tract. Symptoms of over-exposure may be drowsiness, dizziness, nausea, headaches and other central nervous system effects.

Chronic Effects: Repeated or prolonged exposure to mixed hydrocarbons may result in dizziness, weakness, irritability, lack of concentration and memory loss, tremor of extremities, e.g. fingers, weight loss, anemia, ill-effects to liver and kidneys.

Other Health Effects Information: None

Toxicological Information: None

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity:	This product has been classified as being toxic to aquatic life. Do not discharge product to sewer, drains or waterways.
Persistence/degradability:	Not expected to be persistent or bioaccumulative.
Mobility:	Product will float on water. Is highly volatile and will rapidly evaporate.
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 product vapours.

14. TRANSPORT INFORMATION

UN Number: 1993
Shipping name: FLAMMABLE LIQUID, N.O.S. (contains petroleum naphtha)
Class: 3
Packing group: III
Hazchem code: 3Y

Dangerous Goods Segregation

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

15. REGULATORY INFORMATION

Country/ Region: New Zealand
Inventory: NZIoC
Status: Listed

ERMA New Zealand Approval Code:
HSR002603 Lubricants (Flammable) Group Standard 2017.
Refer www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Issue: 7
Date of Issue: 27th February 2025
Reasons for Issue: Update GHS classifications
Replaces: 29th May 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