Tel (09) 273 3753
Tel 0800 27 33 27
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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:	**WHITE SPIRITS**
Recommended Use:	Degreasing solvent for cleaning leather and metal surfaces; solvent carrier in wax polishes; solvent for paints, varnishes and enamels; solvent for printing inks
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 liquid, Category 3; Aspiration hazard, Category 1; Specific target organ toxicity, repeated exposure, Category 2; Hazardous to the aquatic environment, chronic, Category 2.

GHS Pictograms:

Signal word: **DANGER**

Hazard Statements:
H226 Flammable liquid and vapours.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Prevention Statements:
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, sparks, open flames and 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.
P260 Do not breathe mist/vapours.
P273 Avoid release to the environment.
P280 Wear protective clothing, gloves and eye protection.

Response Statements:
P101 If medical advice is needed, have product container or label at hand.
P314 Get medical advice/attention if you feel unwell.
P331 Do NOT induce vomiting.
P391 Collect spillage.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
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

Chemical Ingredient	CAS No.	Proportion (%)
Low aromatic solvent	64742-82-1	100
Contains: 1,2,4-trimethyl benzene (2-9%)	95-63-6	
1,3,5-trimethyl benzene (0.6-4%)	108-67-8	
Ethylbenzene (≤0.1%)	100-41-4	

4. FIRST AID MEASURES

For advice, contact National Poisons Centre (0800 POISON; 0800 764 766) or a doctor.
Have product container or label available. If exposed or concerned, get medical advice.

Swallowed
If swallowed, do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTRE or doctor for advice. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs.

Skin Contact
If skin contact occurs, remove contaminated clothing and wash skin with soap and 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 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. Gastric lavage may be indicated if ingested. Any product aspirated during vomiting may produce lung injury/chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Extinguishing media:
Dry chemical or alcohol foam or CO_2. Water spray or water fog for large fires only. Care is needed to not spread/scatter fire when using water spray.

Fire & Explosion hazards:
Liquid and vapours are flammable. Vapours may form explosive mixtures in air. Expansion or decomposition of containers may lead to violent rupture of containers. Use water spray to keep containers cool.

Hazards from combustion products:
Smoke, carbon dioxide, carbon monoxide and other unspecified compounds.

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.
- 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.

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

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/bystanders 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 label before use. Keep out of reach of children. This product and vapours are flammable. Vapours may form explosive mixtures in air. Use in well-ventilated area. Wash hands with soap and water after handling. Do not open near open flame, sources of heat or ignition. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Keep container closed when not in use.

Conditions for safe storage:
Keep out of reach of children. Store locked up 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 rubbers, butyl rubber, EPDM, polystyrene.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Health Exposure Standards:
WES values are set for components in the 15th edition of WES values published by WorkSafe February 2025.

Ingredient	*Exposure route*	*WES-TWA*	*WES-STEL*
White spirits (Stoddard solvent)	Inhalation	100 ppm (525 mg/m^3)	
Ethyl benzene		20 ppm (88 mg/m^3)	40 ppm (176 mg/m^3)

Biological limit values: None established

Engineering Controls:
Ventilation:
Use product outdoors or in well-ventilated area.

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. In confined places or poorly ventilated areas, provide mechanical ventilation. Use explosion-proof equipment.
Eye Protection: Protect eyes from splashes; wear safety glasses with side shields.
Skin/ Body Protection:
Wear chemical resistant gloves, e.g. PVC, nitrile rubber, also safety footwear or safety gumboots, e.g. rubber.

wear long sleeves and long trousers or coveralls to protect skin and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear colourless liquid
Odour	-	Hydrocarbon solvent (paraffinic)
Odour threshold		Not available
pH		Not determined
Melting point/Freezing point	^{0}C	Not determined
Initial boiling point/range	^{0}C	Not available
Flash Point	^{0}C	41 - 42
Flammability (solid/gas)		Not applicable
Flammable limits	%	LFL: 0.7% UFL: 6.5%
Vapour Pressure @ 20^{0}C	Pa	370
Vapour Density @ 20^{0}C	kPa	Not available
Specific gravity @ 20^{0}C	g/ml	0.78 – 0.79
Solubilities		Immiscible in water
Partition coefficient: n-octanol/water		Not determined
Auto-ignition temperature	^{0}C	296
Decomposition temperature	^{0}C	Not determined
Kinematic viscosity	cSt	Not available

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: Oxidizing agents.
Hazardous polymerization: Not known to occur.

11. TOXICOLOGICAL INFORMATION

Toxicological information determined for mixture.

Acute toxicity: May be harmful if swallowed. Symptoms of over-exposure are nausea, vomiting and abdominal pain.

Aspiration hazard: Product is hydrocarbon solvent and classified as aspirant. The aspiration of product into the lungs by ingestion or vomiting may result in chemical pneumonitis or pulmonary oedema.

Respiratory irritation: Not classified. Inhalation of vapours may cause some discomfort to upper respiratory tract.

Skin corrosion/irritation: May be mildly irritating to skin. Prolonged or repeated exposure will increase risk of contact dermatitis in some individuals.

Eye damage/irritation: Can be irritating to eyes causing short term discomfort (pain, tearing, redness) if not rinsed out immediately.

Respiratory/skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Product contains up to 0.1% w/w ethyl benzene, a compound identified as suspected of causing cancer.

Reproductive toxicity: Product contains up to 0.1% w/w ethyl benzene, a compound identified as suspected of causing reproductive/developmental effects.

Specific organ toxicity: Product contains 1,2,6-trimethyl benzene that is classified as may cause damage to organs through prolonged or repeated exposure.

Narcotic effects: No information.

Toxicological information:
1,2,4-trimethyl benzene Rat, oral LD_{50} 3280 mg/kg bw
Rat, inhalation LC_{50} (4 hr) 18 mg/L

12. ECOLOGICAL INFORMATION

Toxicological information determined for mixture.

Ecotoxicity:
Aquatic toxicity: Product is toxic to aquatic life with long lasting effects.
Persistence/degradability: Not expected to be persistent or bioaccumulative.
Mobility: Product is not miscible in water. Highly volatile and will evaporate rapidly in air.

Environmental Exposure Standards: Not set.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:
Care should be taken to ensure compliance with national, regional and local authority regulations.
Dispose of product through a solvent waste recycler. Do not pour down drains or sewers.
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.

14. TRANSPORT INFORMATION

UN Number: 1300
Shipping name: TURPENTINE SUBSTITUTE
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.

Environmental hazards: Marine pollutant
Special precautions: No

15. REGULATORY INFORMATION

Country/Region: New Zealand
Inventory: NZIoC
Status: Components listed

EPA New Zealand Approval Code: HSR002650; Solvents (Flammable) Group Standard 2020..
Refer www.epa.govt.nz for information on Controls (HS Notices) and www.worksafe.govt.nz .

16. OTHER INFORMATION

Issue number: 9
Date of Issue: 14th April 2025
Reasons for Issue: Corrections.
Replaces: 9th April 2025

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 Material 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