

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: 2-WAY LACQUER THINNERS

Recommended Use: Thinner for paints, primers, top coat, clear coat, acrylic lacquers and general purpose thinner for automotive paints.

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 2; Acute toxicity, oral, Category 4, Acute toxicity, inhalation, Category 4; Aspiration hazard, Category 1; Skin irritation, Category 2; Eye irritation, Category 2; Reproductive toxicity, Category 2; Specific target organ toxicity, repeated exposure, Category 2; Hazardous to the aquatic environment, chronic, Category 3

GHS Pictograms:



Signal word: DANGER

Hazard Statements:

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long-lasting effects.



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 vapours.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when handling.
P271 Use only outdoors or in well-ventilated area.
P273 Avoid release to environment.
P280 Wear protective gloves and eye protection.

Response Statements:

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see label).
P330 Rinse mouth.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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): Remove immediately all contaminated clothing. Rinse skin with water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 foam, CO2 or dry chemical to extinguish. Use water spray or water fog on large fires only.

Storage Statements:

P403 + P235 Store in a well-ventilated. Keep cool.
P405 Store locked up.

Disposal Statement:

P501 Dispose of product and containers in accordance with local regulations.

3. COMPOSITION INFORMATION

Chemical Ingredient	CAS No.	Proportion (%)
Toluene	108-88-3	60 – 70
Acetone	67-64-1	10 – 20
Petroleum spirit	64742-49-0	10 – 15
Isopropanol	67-63-0	< 5
n-Butyl acetate	123-86-4	< 5
n-Hexane	110-54-3	< 2



4. FIRST AID MEASURES

For advice, contact 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 medical attention. If spontaneous vomiting occurs, hold patients head below hips to avoid possible aspiration of vomitus into lungs.

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 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 or you feel unwell.

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: 1°C (toluene)
Flammable limits: LFL: 1.4% UFL: 8.7%

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: 3YE

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. 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 by Worksafe New Zealand for components in this product.



	WES-TWA	WES-STEL
Toluene (skin)	50 ppm (188 mg/m ³)	
Acetone (bio)	500 ppm (1185 mg/m ³)	1000 ppm (2375 mg/m ³)
Isopropanol	400 ppm (983 mg/m ³)	500 ppm (1230 mg/m ³)
n-Hexane (bio)	20 ppm (72 mg/m ³)	-

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.

Personal Protective Equipment:

Respiratory Protection: Where air concentration may exceed Workplace Exposure Standards, 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.

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	1
Specific gravity @ 20°C	g/ml	0.83
Vapour Pressure @ 20°C	kPa	7.6
Vapour Density @ 20°C	kPa	Not available
Explosive Limits in Air	%	1.4 – 8.7
Viscosity	cSt	Not available
Volatiles	%vol/vol	100
Alkalinity/acidity (as pH)	-	Not applicable
Solubility in Water	% w/w	Partially soluble

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.

Hazardous decomposition products: No decomposition products except on burning.

See "Fire Fighting Measures" and "Hazardous Reactions".

Hazardous reactions: Oxidizing agents, mineral acids, halogenated organic compounds and peroxides.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Harmful if swallowed. Will irritate throat, trachea, respiratory tract and oesophagus. If swallowed, symptoms may include headache and nausea. Swallowing small amounts or from vomiting may cause aspiration into lungs and cause chemical pneumonitis or pulmonary odema which may be fatal.

Eye Contact

This product is irritating to the eyes resulting in tearing, swelling and redness. May have burning sensation and blurred vision.



Skin Contact

This product can be harmful by skin absorption and is irritating to the skin. Prolonged or repeated exposure may defat skin leading to drying and cracking of skin.

Inhalation

Vapours harmful and may cause discomfort and by irritating to the upper respiratory tract. Symptoms of over-exposure may be coughing, difficulty in breathing, drowsiness and dizziness.

Chronic Effects: This product contains toluene a substance suspected of damaging fertility or the unborn child. Product also contains substances that may cause damage to organs through prolonged or repeated exposure and may result in depression of the central nervous system with symptoms of nausea, headaches, dizziness, possible loss of consciousness, coma and even death. Repeated over-exposure to toluene may cause hemolysis of red blood cells leading to possible liver and kidney damage. Any existing dermatitis may be exacerbated by exposure to this product. Product also contains n-hexane, for which experimental results indicate adverse teratogenic, reproductive and mutagenic effects. The effects of this product in combination with methyl ethyl ketone (MEK) are potentiated (increased). This means an adverse effect from ingestion, skin contact, or inhalation exposure may be increased or experienced more quickly.

Other Health Effects Information: Exposure to high concentrations of this product may aggravate pre-existing liver, kidney, central nervous system, respiratory, reproductive or skin conditions. Persons with such pre-existing conditions should avoid unnecessary exposure to this product.

Toxicological Information:

Acetone	Oral, LD ₅₀ , mouse 3000 mg/kg
n-Butyl acetate	Oral, LD ₅₀ , rabbit 3200 mg/kg Inhalation, LC ₅₀ (4hr), rat ~ 2 mg/L
Isopropanol	Oral, LD ₅₀ , rat 3600 mg/kg
Toluene	Oral, LD ₅₀ , rat 636 mg/kg Inhalation LC ₅₀ (4hr), rat 12.5 – 28.8 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: This product has been classified as being harmful to aquatic life with long-lasting effects. Do not discharge product to sewer, drains or waterways.

Persistence/degradability: Product contains components that may not be readily biodegradable. Degrades rapidly in air. Does not bioaccumulate significantly.

Mobility: Product is partially soluble in water.

Ecotoxicological data:	n-Butyl acetate	Fathead minnow, LC ₅₀ (96hr) 18 mg/L
	n-Hexane	Fathead minnow, LC ₅₀ (96hr) 2.5 mg/L <i>Daphnia magna</i> , EC ₅₀ (48 hr) 3.9 mg/L
	Toluene	Rainbow trout, LC ₅₀ (96hr) 5.8 mg/L <i>Daphnia magna</i> , EC ₅₀ (48 hr) 11.5 mg/L

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 flammable and harmful vapours.



14. TRANSPORT INFORMATION

UN Number: 1993
Shipping name: FLAMMABLE LIQUID, N.O.S. (contains toluene, acetone, petroleum spirit)
Class: 3
Packing group: II
Hazchem code: 3YE

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: Components listed

EPA New Zealand Approval Code: HSR002650 Solvent (Flammable) Group Standard 2020.
Refer www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Issue number: 6
Date of Issue: 21st February 2025
Reasons for Issue: Update GHS classifications
Replaces: 24th March 2021

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

