

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: *THINNERS 2-WAY LACQUER (AMAZING HASTE)*

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

Supplier: TMK Packers Ltd

Address: 2/20 Trugood Drive, East Tamaki.
PO Box 258 031, Botany, Manukau 2163

Telephone: (+64) 9 273 3753

Facsimile: (+64) 9 273 3752

Website: www.tmkpackers.co.nz

Emergency phone: **National Poison Centre**
0800 POISON [0800 764 766]



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, 6.1D, 6.3A, 6.4A, 6.8B, 6.9B, 9.1C

Signal word: **DANGER**

Hazard Statements :

H225 Highly flammable liquid and vapour

H302 Harmful if swallowed

H305 May be harmful 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 :

P102 Keep out of reach of children.

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.

3. COMPOSITION : Information on Ingredients

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 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. 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.

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: 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 the Occupational Safety and Health Service, NZ Department of Labour 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 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.

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. Swallowing small



amounts or from vomiting may cause aspiration into lungs and cause chemical pneumonitis or pulmonary odema. If swallowed, symptoms may include headache and nausea.

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 effects 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.

Other information:

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:

EEL (WATER):	Not set
EEL (SOIL)	Not set
EEL (SEDIMENTS)	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.
Class: 3
Packing group: II
Hazchem code: 3YE

Dangerous Goods Segregation

This product is classified as Dangerous Good Class 3.
Please consult NZS 5433:2007 Transport of Dangerous Goods on Land for information.

15. REGULATORY INFORMATION



Country/ Region: New Zealand

Inventory: NZCIL

Status: Listed

ERMA New Zealand Approval Code:

HSR002650 Solvent (Flammable) Group Standard 2006.

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

16. OTHER INFORMATION

Date of Issue: 27th April, 2010

Reasons for Issue: Change in format; add heading.

Replaces: 29th March, 2010

Abbreviations:

CAS No	Chemical Abstracts Number
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substances and New Organisms
NZCI	New Zealand Chemical Inventory
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
WES	Workplace Exposure Standard

References:

Supplier Material Safety Data Sheets

ERMA website: www.ermanz.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

