

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1: Identification of the Substance/Mixture and of the Supplier

Product: **Two Way Thinners**
 Product Use: Paint Thinners
 Restriction of Use: Refer to Section 15

Company Details: **Marketing Chemicals Ltd**
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0800 764 766 (National Poison Centre)

Date of SDS Preparation: 25 November 2019

Section 2: Hazard Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Cleaning Products (Flammable) - HSR002528

Pictograms:



Flammable



Toxic/Irritant



Chronic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Flam. Liq. 2
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1E (aspiration hazard)	H304	May be fatal if swallowed and enters airways.	Asp. Tox. 1
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
6.9N	H336	May cause drowsiness or dizziness.	STOT SE 3
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.

P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
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, and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before re-use.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry chemical powder, carbon dioxide, or water spray for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3: Composition/Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Pegamol 1425	< 60	64742-49-0
Toluene	< 60	108-88-3
Isopropyl Alcohol	< 60	67-63-0
Acetone	< 60	67-64-1
Methyl Isobutyl Ketone	< 10	108-10-1

Section 4: First Aid Measures

Routes of Exposure:

If in Eyes	Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.
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If on Skin	Remove immediately all contaminated clothing and footwear. Wash affected area with plenty of water followed by soap and water. Get medical advice if irritation persists. Wash contaminated clothing/footwear before re-use.
If Swallowed	Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion	Harmful if swallowed.
Inhalation	May cause drowsiness or dizziness.
Skin	Causes skin irritation.
Eyes	Causes severe eye irritation.
Aspiration	May be fatal if swallowed and enters airways.
Chronic	Suspected of damaging fertility or the unborn child. May cause damage to organs through repeated or prolonged exposure.

Section 5: Fire Fighting Measures

Hazard Type	Flammable Liquid
Flash Point	4°C
Auto Ignition Point	485°C
Flammable Limits in Air % by Volume	1.2 to 8.0%
Hazards from combustion products	Vapour accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, ect. away from those fumes.
Suitable Extinguishing media	Dry chemical, foam, or carbon dioxide.
Precautions for firefighters and special protective clothing	Proper respiratory equipment to protect against the hazardous effects of combustion products is recommended. Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only.
HAZCHEM CODE	3YE

Section 6: Accidental Release Measures

SMALL SPILL: Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways.

LARGE SPILL: Contain material as described above and call the local fire or police department for immediate emergency assistance.

Dispose according to Local Regulations

Section 7: Handling and Storage

Handling:

- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- Keep container tightly closed. Open slowly to relieve any pressure.
- Ground/bond container and receiving equipment.

- Use explosion-proof electrical, ventilating, and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge. This material can accumulate static charge by flow or agitation. Vapours can be ignited by static discharge.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Use personal protective equipment as required.

Storage:

- Store locked up.
- Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store away from incompatible materials listed in Section 10.

Section 8: Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Toluene (skin)	[108-88-3]	50	188	-	-
Isopropyl alcohol	[67-63-0]	400	983	500	1,230

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Personal Protection Equipment



- Engineering Controls:** General (mechanical) room ventilation is considered satisfactory in enclosed spaces. Where explosive mixtures may be present, electrical systems safe for such locations must be used.
- Eye / Face Protection:** Wear safety glasses with side shields or goggles when handling this material.
- Body Protection:** PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.
- Respiratory Protection:** Use NIOSH/MSHA approved respirators.

Section 9: Physical and Chemical Properties

Appearance	Liquid
Colour	Clear Colourless
Odour	Solvent
Odour Threshold	Not available
pH	Not applicable
Boiling Point	Not applicable

Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	4°C
Flammability	Flammable
Upper and Lower Explosive Limits	1.2% to 8%
Vapour Pressure	Not applicable
Vapour Density	3.0
Specific Gravity	0.80
Solubility in Water (mg/l)	Partly soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	485°C
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable

Section 10: Stability and Reactivity

Stability of the Substance:	Stable
Conditions to avoid:	Exposure to excessive heat, open flames and sparks. Avoid conditions that favour the formation of excessive mists and/or fumes.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Oxides of Carbon when burned.

Section 11: Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. Rat; ENDPOINT: LD50 ;VALUE: 3280 mg/kg
Dermal	May cause drowsiness or dizziness.
Inhalation	Not applicable. SPECIES: Rat; ENDPOINT: LC50; VALUE: 18 g/m ³ /4h = 18 mg/L/4h
Eye	Causes severe eye irritation. SPECIES: Rabbit RESULT: The test substance was applied at 0.1 ml to the conjunctival sac of one eye of each of 6 rabbits (sex not reported) Mild iritis was observed in most eyes at 1 hour; slight corneal opacity was observed in 2 eyes at 24 hours, and 1 eye at 48 hours. Moderate conjunctival irritation was present in most eyes at 1 and 24 hours, but was slight at 48 and 72 hours. All eyes were normal by 7 days.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	May be fatal if swallowed and enters airways.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through repeated or prolonged exposure.

Section 12: Ecotoxicological Information

HSNO Classes:	9.1C = Harmful to aquatic life with long lasting effects. 9.3C = Harmful to terrestrial vertebrates.
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(fish)

SPECIES: Pimephales promelas (fathead minnow);
TYPE OF EXPOSURE: Flow through ;DURATION: 96 hr ;ENDPOINT: LC50 ;VALUE: 7.72 mg/l

(crustacean)

SPECIES: Cancer magister, Dungeness or edible crab
TYPE OF EXPOSURE: Static; DURATION: 48 hr:
ENDPOINT: LC50 (Mortality); VALUE: 17000 ug/L (= 17 mg/l)

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not allow to enter waterways.

Section 13: Disposal Considerations

Disposal Method:

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 and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

Precautions or methods to avoid: This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams, or rivers. This product is ash less and can be burned directly in appropriate equipment.

Section 14: Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012



Road, Rail, Sea and Air Transport

UN No	1993
Class - Primary	3
Packing Group	II
Subsidiary Risk	9.1
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S
Marine Pollutant	No
Special Provisions	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.
Hazchem Code	3YE

Section 15: Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Cleaning Products (Flammable) - HSR002528

HSNO Classification: 3.1B, 6.1D(oral), 6.1E(asp), 6.3A, 6.4A, 6.8B, 6.9B, 6.9N, 9.1C, 9.3C

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
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Product Name: Two Way Thinners
Date of SDS: 25 November 2019

Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Certified Handler	Not required
Location Certificate	100L(>5L), 250L(<5L)< 50L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L (3.1B)
Emergency Response Plan	1000L (3.1B)
Secondary Containment	1000L(3.1B)
Restriction of Use:	None known.

Section 16: Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

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