

# 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: **Mineral Turpentine**  
 Product Use: Industrial Chemical  
 Restriction of Use: Refer to Section 15

Company Details: **Marketing Chemicals Ltd**  
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Emergency No: **+64 274 340 990(24 hours)**  
**0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 6 September 2019

## Section 2: Hazard Identification

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

EPA Approval No: **Solvents (Flammable) - HSR0002662**

### Pictograms:



Flammable    Irritant    Chronic    Ecotoxic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
3.1C	H226	Flammable liquid and vapour.	Flam. Liq. 3
6.1E (asp)	H304	May be fatal if swallowed and enters airways.	Asp. Tox. 1
6.1E (resp)	H335	May cause respiratory irritation.	STOT SE 3
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child	Repr. 2
6.9A	H372	Causes damage to organs through prolonged or repeated exposure.	STOT RE 1
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

Prevention Code	Prevention Statement
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 precautions have been read and understood.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes.
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 as detailed in Section 8.
P281	Use personal protective equipment as required.

<b>Response code</b>	<b>Response Statement</b>
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.
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/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position 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.
P370 + P378	In case of fire: Use CO2, Dry Chemical or Foam, Water spray or Fog for extinction.

<b>Storage Code</b>	<b>Storage Statement</b>
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.

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Refer to Section 13.

### Section 3: Composition/Information on Ingredients

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Aliphatic hydrocarbon, low aromatic	60 – 65	64742-82-1
Aromatic hydrocarbon* * That may contain	35 – 40	64742-95-6
1,2,4-Trimethylbenzene	<20	95-63-6
Mesitylene	<7	108-67-8
Propylbenzene and Isopropylbenzene (Cumene),	<3	
Xylene, mixed isomers	<1	1330-20-7

### Section 4: First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Get medical attention if irritation persists.

If Swallowed

Rinse mouth. Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Call a POISON CENTER or doctor/physician if you feel unwell.

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:

<b>Ingestion</b>	May be fatal if swallowed and enters airways.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Skin</b>	Causes mild skin irritation.
<b>Eyes</b>	Causes serious eye irritation.
<b>Chronic</b>	Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure.
<b>Notes to Physician</b>	Treat according to symptoms. Gastric lavage may be indicated if ingested but protect airway as risk of aspiration into lungs with potential to cause chemical pneumonitis. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

## Section 5: Fire Fighting Measures

<b>Hazard Type</b>	Flammable Liquid or vapour
<b>Flash Point</b>	41°C
<b>Auto Ignition Point</b>	>200°C
<b>Flammable Limits in Air % by Volume</b>	Not available
<b>Hazards from combustion products</b>	None known
<b>Suitable Extinguishing media</b>	Foam or water fog. Dry chemical, carbon dioxide, sand and earth are suitable for extinguishing small fires.
<b>Precautions for firefighters and special protective clothing</b>	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. Vapour accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, ect. away from those fumes.
<b>HAZCHEM CODE</b>	<b>3Y</b>

## 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.

## Section 7: Handling and Storage

### PROCEDURE FOR HANDLING

- Read label before use.
- Obtain special instructions 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.
- Open container slowly to relieve any pressure

- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical, ventilating, and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe fumes or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

**STORAGE REQUIREMENTS**

- Store in a well-ventilated place. Keep cool and dry.
- Store locked up.
- Keep container tightly closed.
- 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
Xylene	[1330-20-7]	50	217	-	-

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. Where concentrations in air may exceed the limits described in the National Exposure Standards, 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.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Clear Colourless
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Boiling Point</b>	154-192°C
<b>Melting Point</b>	Not available

<b>Freezing Point</b>	Not available
<b>Flash Point</b>	41 <sup>o</sup> C
<b>Flammability</b>	Flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	Not available
<b>Solubility in Water</b>	Insoluble
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	>200 <sup>o</sup> C
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not applicable
<b>Evaporation Rate</b>	Not available
<b>% Volatiles</b>	100

## Section 10: Stability and Reactivity

<b>Stability of the Substance:</b>	Stable under normal storage and use conditions.
<b>Conditions to avoid:</b>	Exposure to excessive heat, open flames and sparks. Avoid conditions that favour the formation of excessive mists and/or fumes.
<b>Materials to avoid:</b>	Strong oxidising agents
<b>Hazardous Decomposition Products:</b>	None known
<b>Conditions Contributing to Hazardous Polymerization</b>	Not known.

## Section 11: Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not triggered, however if ingesting any amount of this product will result in headaches, nausea, dizziness, and tracheal burning.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not triggered however, this product may be irritating if inhaled resulting in coughing, wheezing, choking, or breathing difficulties. Exposure to large concentrations over an extended period will result in central nervous system (CNS) depression with symptoms of headache, nausea, and lack of co-ordination.
<b>Eye</b>	This product is irritating to eyes, but will not permanently damage the eye tissue.
<b>Skin</b>	This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking. Prolonged or repeated exposure may lead to dermatitis.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Suspected of causing genetic defects.
<b>Aspiration</b>	May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Causes damage to organs through prolonged or repeated exposure.

### Individual component information:

#### Acute Toxicity:

Product Name: Mineral Turpentine  
Date of SDS: 6 September 2019

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

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
1,2,4-Trimethylbenzene (Cas no 95-63-6)	3280mg/kg (rat)	-	18 mg/L(Rat) 4hr
Xylene (Cas No 1330-20-7)	1590mg/kg (Mouse)	-	27.6mg/L (rat)

## Section 12: Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

Environmental Precautions: Do not allow product to wash into waterways.

Persistence and degradability	Expected to be biodegradable
Bioaccumulation	not bio accumulative
Mobility in Soil	No data available
Other adverse effects	Oxidized rapidly by photochemical reactions in air.

## 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.

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

**Precautions or methods to avoid:** Do not allow to enter waterways.

## 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	1300
Class - Primary	3
Packing Group	III
Proper Shipping Name	TURPENTINE SUBSTITUTE
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5L, 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	3Y

## Section 15: Regulatory Information

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

EPA Approval Code: Solvents (Flammable) - HSR002662

HSNO Classification: 3.1C, 6.1E(asp, resp), 6.3B, 6.4A, 6.8B, 6.9A, 9.1B

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	500L(>5L), 1500L(<5L)< 250L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (3.1C)
Emergency Response Plan	1000L (9.1B)
Secondary Containment	1000L(9.1B)
Restriction of Use	None known

## Section 16: Other Information

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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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