

PO Box 316022, Wairau Valley Post Centre, North Shore 0760, Auckland NZ

Phone: 09 966 2447 CHEMCALL: 0800 243 622

#### FOR FURTHER INFORMATION, PLEASE REFER TO THE SDS FOLLOWING

Issue: August 20

**PRODUCT:** Mineral Turpentine

Other Names: Petropine, Turpentine Substitute

Uses: Industrial solvent: cleaning and degreasing

Signal Word: Danger

UN No.	1300
Dangerous Goods Class	3
Subsidiary Risk	None
Pack Group	III
Hazchem	3Y

Hazardous Nature:	This product is classified as hazardous under HSNO criteria		
Hazardous Classification:	3.1C, 6.1E (aspiration), 6.1E (respiratory tract irritant), 6.3B, 6.7B, 6.9B, 9.1B		
HSNO Approval Number: HSR002652			
Exposure Standards:	TWA: Ethylbenzene: 434 mg/m³ (100 ppm): STEL: Ethylbenzene: 543 mg/m³ (125 ppm); Cumene: 375 mg/m³ (75 ppm); Naphthalene: 79 mg/m³ (15 ppm)		

Physical Characteristics (Typical)	Section 9 of SDS
Appearance	Clear, colourless liquid
Boiling Point/ Range (°C):	154-192
Flash Point (°C):	41
Specific Gravity/ Density (g/mL @ 20°C):	0.81-0.82
Chemical Stability:	Stable at room temperature and pressure.

Product Ingredients		Section 3 of SDS
Aliphatic hydrocarbon, low aromatic content	64742-82-1	48-58
Solvent Naptha (Petroleum), light aromatic	64742-95-6	47-52

For further ingredients information, please refer to the full SDS.

GHS Pictograms Section 2 of SDS









For further risk and safety information, please refer to the full SDS.

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DEFINITIONS	•

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993. Products not classed as Dangerous Goods are designated as not regulated for transport or N/R (non-regulated).
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc. Materials classified with risks such as potential for misuse, like flammability, or explosions when heated and ignited, may be both classed as Dangerous Goods and Hazardous Substances.

#### . IDENTIFICATION

Product Name: Mineral Turpentine

Other Names: Petropine, Turpentine Substitute

Chemical Family: Aliphatic, cycloparaffinic hydrocarbon

**Recommended Use:** Industrial solvent: cleaning and degreasing

Supplier: ASCC Limited

Street Address: 112A Bush Road, Rosedale, Auckland, New Zealand

**Telephone:** (09) 966 2447

Emergency phone: 0800 243 622 (24 hours)

+64 4 917 9888 (Outside NZ)

National Poisons Centre: 0800 764 766

#### 2. HAZARDS IDENTIFICATION

#### **Hazardous Nature**

This product is classified as hazardous under HSNO criteria

#### **Hazardous Classification**

3.1C, 6.1E (aspiration), 6.1E (respiratory tract irritant), 6.3B, 6.7B, 6.9B, 9.1B

#### **GHS Pictograms**









#### Signal Word Danger

#### **Dangerous Goods Classification 3**

#### **Hazard Statements**

H226: Flammable liquid and vapour

H304: May be fatal if swallowed and enters airways

H335: May cause respiratory irritation

H316: Causes mild skin irritation

H351: Suspected of causing cancer

H361: Suspected of damaging fertility or the unborn child

H373: May cause damage to organs through prolonged or repeated exposure

H411: Toxic to aquatic life with long lasting effects

#### **Precautionary 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### **Response Statements**

P301+ P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331: Do NOT induce vomiting.

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P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/ doctor/.../if you feel unwell.

P308+P313: If exposed or concerned: Get medical advice/attention.

P370+P378: In case of fire: Use dry chemical, carbon dioxide, foam, water spray or fog to extinguish.

P391 Collect spillage

#### **Storage Statements**

P403+P235: Store in a well ventilated place. Keep cool.

P233: Keep container tightly closed.

P405: Store locked up.

#### **Disposal Statements**

P501: Dispose of contents, or container in accordance with local/regional/national/international regulation.

#### 3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Aliphatic hydrocarbon, low aromatic	64742-82-1	48-58
content	95-63-6	2.0-9.0
Contains:	108-67-8	0.6-3.0
1,2,4 Trimethyl benzene	100-41-4	≤0.3
1,3,5 -Trimethyl benzene		
Ethylbenzene		
Solvent Naptha (Petroleum), light	64742-95-6	47-52
aromatic	98-82-8	1 - <5
Contains:	108-67-8	5 - <10
Cumene;	91-20-3	<1
Mesitylene (1,3,5-trimethyl benzene);	95-63-6	30 - 35
Naphthalene;		
Pseudocumene (1,2,4-trimethylbenzene)		

#### 4. FIRST AID MEASURES

For advice, contact National Poisons Centre (Phone New Zealand: 0800 764 766) or a doctor.

If swallowed, do NOT induce vomiting. Obtain immediate medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.

Hold eyelids apart and flush the eye with running water for at least 15 minutes. Check for and remove any contact lenses. Continue rinsing. Seek medical attention if irritation persists

#### Skin/Hair Contact

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use.

#### Inhalation

Move the victim to fresh air and keep at rest in a position comfortable for breathing. Begin artificial respiration if breathing has stopped. Seek medical attention

#### **First Aid facilities**

Provide eye baths and safety showers.

#### **Medical Attention**

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

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#### FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

#### Suitable extinguishing media

Water fog and foam. Dry chemical or carbon dioxide (CO2), sand and earth suitable for small fires. Do NOT use straight streams of water

#### **Hazards from combustion products**

Smoke, fume, carbon dioxide and carbon monoxide and incomplete combustion products.

#### **Specific Hazards**

Flammable liquid and vapour

#### Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code: 3Y

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Accidental Release Controls**

Flammable liquid and vapours. NO SMOKING. Shut off product that may 'fuel' a fire if safe to do so. Remove all sources of ignition. Use non-sparking (non-metallic) tools. Prevent spill from spreading. Avoid contact with spilled material. Wear personal protective equipment.

#### **Emergency Procedures**

Prevent material from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

#### Methods and materials for containment

#### **Major Land Spill**

- Eliminate sources of ignition
- Warn occupants of downwind areas of possible fire and explosion hazard
- Prevent product from entering sewers, watercourses, or low-lying areas
- Keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation
- Take measures to minimise the effect on ground water
- Contain any spilled liquid with sand or earth
- Recover liquid spills by pumping use explosion proof pump or hand pump or with a suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations
- See "First Aid Measures" and "Stability and Reactivity"

#### **Major Water Spill**

- Eliminate any sources of ignition
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard
- Notify the port or relevant authority and keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Confine the spill if possible
- Remove the product from the surface by skimming or with suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations
- See "First Aid Measures" and "Stability and Reactivity".

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhaling vapour and contact with skin and eyes. Wear personal protective equipment. This product is flammable. Do not open near open flame, sources of heat or ignition. NO SMOKING. Keep container closed when not in use. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge which may cause an elctrical sprak (ignition source). Use bonding and/or earthing measures to avoid discharge (electrical spark) but note this may not eliminate hazard.

Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product will fuel a fire in progress.

#### **Conditions for safe storage**

Store in tightly closed original container in a dry, cool and well-ventilated place.

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#### **Incompatible materials**

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

Compatible materials: Carbon steel, stainless steel, polyethylene, polypropylene, polyester, Teflon.

#### 8. EXPOSURE CONTROLS: PERSONAL PROTECTION

#### **National Exposure Standards**

The time weighted average (TWA) concentration, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week for this product is: Ethylbenzene: 434 mg/m³ (100 ppm). The short-term exposure limit (STEL), which is the maximum allowable exposure concentration at any time.is: Ethylbenzene: 543 mg/m³ (125 ppm); Cumene: 375 mg/m³ (75 ppm); Naphthalene: 79 mg/m³ (15 ppm).

#### **Biological limit values**

No values established

#### **Engineering Controls: Ventilation**

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

#### **Personal Protective Equipment**

**Respiratory Protection:** Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face or full-face filter mask to protect from overexposure by inhalation.

Recommended Filter Type: Type A filter (organic vapour).

For high airborne concentrations, use an approved supplied-air respirator operated in positive pressure mode.

Refer to AS/NZS 1715: *Selection, Use and Maintenance of Respiratory Equipment* and AS/NZS 1716: *Respiratory Protective Devices* for further details on the use of respiratory protective equipment.

Eye Protection: Always use safety glasses or a face shield when handling this product.

**Skin/ Body Protection:** Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value	
Appearance	-	Clear, colourless liquid	
Odour	-	Hydrocarbon	
Odour Threshold	ppm	Not available	
Melting Point/Range	°C	Not available	
Boiling Point/ Range	°C	154-192	
Flash Point	°C	41	
Flammability	-	Flammable	
Specific Gravity / Density @ 20°C	g/mL	0.81-0.82	
Vapour Pressure @ 20°C	kPa	Not available	
Explosive Limits (LEL – UEL)	%	0.6 – 7.0	
Vapour Density @ 20°C	kPa	Not available	
Autoignition Temperature	°C	> 200	
Decomposition Temperature	°C	Not available	
Viscosity @ 20°C	cSt	Not applicable	
рН	-	Not applicable	
Partition Coefficient	-	Not available	
Percent Volatiles	%	100	
Solubility with Water	% w/w	Negligible	
Other Solubility	% w/w	Not available	
Other Information	-	-	

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

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#### 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**

Carbon monoxide, carbon dioxide and other organic complexes on incomplete burning or oxidation.

#### **Hazardous reactions**

Oxidizing agents, mineral acids, halogenated organic compounds

#### **Hazardous Polymerisation**

Will not occur

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute Effects**

#### Ingestion

Minimally toxic. Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema.

#### **Eye Contact**

This product is slightly irritating to eyes, with short lasting discomfort, but will not permanently damage the eye tissue.

#### Skin Contact

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.

May be irritating to eyes, nose, throat and lungs. May cause central nervous system depression.

#### **Chronic Effects**

This product may contain 0.1 to 1% of ethylbenzene. IARC has evaluated ethylbenzene and classified it as a "possible human carcinogen" (Group 2B) based on sufficient evidence for cancer in exposed humans. This product may contain 0.1 to 1% naphthalene. IARC evaluated naphthalene and concluded that there was sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cance in exposed humans. Accordingly, IARC classified napthalene as a possible human carcinogen (Group 2B).

## Other Health Effects Information

Short term single exposure may cause drowsiness and dizziness.

Individuals with pre-existing skin or respiratory conditions may be sensitive to this product.

#### **Toxicological Information**

Oral / Dermal LD50: Naphthalene: LD50 (oral, rat): 490 mg/kg; LD50 (dermal, rat): 1120 mg/kg; Ethylbenzene: LD50 (oral, rat): 3,280 mg/kg; 1,2,4 Trimethyl benzene: LD<sub>50</sub> (oral, rat) = 3280 mg/kg

Inhalation LC<sub>50</sub>: Ethyl benzene: LC<sub>50</sub> (inhalation, rat): 18 mg/L/4 h; 1,2,4 Trimethyl benzene: LC<sub>50</sub> (Inhalation, rat) = 18 mg/L/4 h

Acute Toxicity (6.1A, 6.1B, 6.1C, 6.1D): Not classified as an acute toxicant.

Aspiration Hazard (6.1E): May be fatal if swallowed and enters airways.

Respiratory Irritation (6.1E): May cause respiratory irritation

Skin Corrosion/Irritation (8.2A, 8.2B, 8.2C, 6.3A): Causes mild skin irritation

Serious Eye damage/irritation (8.3A, 6.3A): Not classified Respiratory or Skin Sensitisation (6.5A, 6.5B): Not classified

Germ cell mutagenicity (6.6A, 6.6B): Not classified

Carcinogenicity (6.7A, 6.7B): Suspected of causing cancer

Reproductive Toxicity (6.8A, 6.8B, 6.8C): Suspected of damaging fertility or the unborn child.

Specific Organ Toxicity (Repeated and Single Exposure) (6.9A, 6.9B): May cause damage to organs through prolonged or repeated exposure.

Narcotic Effects (6.9B): Not classified

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# 12. ECOLOGICAL INFORMATION Ecotoxicity

### **Aquatic Toxicity**

Fish toxicity, LC<sub>50</sub> (96 hr): Cumene: Rainbow Trout: 2.7 mg/L

Crustacean toxicity (Daphnia Magna), EC $_{50}$  (48 hr): Cumene: EC $_{50}$ : 1.4 mg/L Green algae toxicity, EC $_{50}$  (72 hr): Mesitylene: 2.5 mg/L Blue-green algae toxicity (Cyanobacteria), EC $_{50}$  (72 hr): Cumene: 2.6 mg/L

#### Persistence/Degradability

Expected to be biodegradable. Oxidises rapidly by photo-chemical reactions in air.

#### Mobility

This product is highly volatile and partition rapidly in air. Not expected to partition to sediment and wastewater solids.

#### **Bioaccumulative Potential**

Not expected to bioaccumulate significantly

#### **Other Information**

Product classified as toxic in the aquatic environment with long-lasting effects.

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

#### **Special Precautions for Landfill or Incineration**

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

#### 14. TRANSPORT INFORMATION

Road and F	Rail Transport	Marine Tr	Marine Transport Air Tran		ransport
UN No.	1300	UN No.	1300	UN No.	1300
Proper Shipping Name	TURPENTINE SUBSTITUTE	Proper Shipping Name	TURPENTINE SUBSTITUTE	Proper Shipping Name	TURPENTINE SUBSTITUTE
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	3Y	Hazchem	3Y	Hazchem	3Y

#### **Dangerous Goods Segregation**

This product is classified as Dangerous Goods Class 3, packing group III.



#### 15. REGULATORY INFORMATION

Country/ Region: New Zealand

Inventory: NZIoC

Status: All components are listed in NZIoC

HSNO Approval: HSR002652: Solvents (Flammable, Toxic [6.7]) Group Standard 2017

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HSNO/HSWA Controls: Refer to the above Group Standard, Health and Safety at Work Act 2015, www.epa.govt.nz and

www.worksafe.govt.nz for further information on controls

Certified Handler: Not required

Tracking: Not required

**Restriction to workplace**: Not applicable **Signage:** Threshold quantity: 1,000 L

Fire extinguishers: Threshold quantity: 500 L

Emergency Response Plan: Threshold quantity: 1,000 L Secondary containment: Threshold quantity: 1,000 L

Other: Location and transit depot test certification: 500 L (closed containers greater than 5 L); 1,500 L (closed containers up to and

including 5 L); 250 L (open containers)

Agricultural Compounds and Veterinary Medicines Act 1997 (ACVM): Not applicable Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable

**Stockholm Convention**: Not applicable **Rotterdam Convention**: Not applicable

#### 16. OTHER INFORMATION

Reasons for Issue: Section 14: subrisk correction

Replaces SDS dated: 12 May 2020 New SDS issue date: 28 August 2020

**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

EC<sub>50</sub>: Effective Concentration, 50 per cent

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HSNO: Hazardous Substances and New Organisms Act 1996

HSWA: Health and Safety at Work Act 2015

IARC: International Agency for Research on Cancer

IC<sub>50</sub>: Half Maximal Inhibitory Concentration LC<sub>50</sub>: Lethal Concentration, 50 per cent

LD<sub>50</sub>: 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

## References:

Supplier Safety Data Sheets

• EPA CCID https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/

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- Workplace Exposure Standards and Biological Exposure Indices. 11th Edition, published by WorkSafe New Zealand November 2019. https://worksafe.govt.nz/topic-and-industry/work-related-health/monitoring/exposure-standards-and-biological-
- US EPA Toxnet ChemIDPlus: http://chem.sis.nlm.nih.gov/chemidplus (August 20)
- OECD eChemPortal Substance Search <a href="https://www.echemportal.org/echemportal/participant/page.action?pageID=9">https://www.echemportal.org/echemportal/participant/page.action?pageID=9</a>

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 ASCC Limited.

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