

ASCC (NZ) Pty. Ltd**MSDS Summary Information**

For further information : Please refer to the ASCC SDS

Issue: September, 2007

PRODUCT: Mineral turpentine

Other Names: Petropine,
Turpentine Substitute

Uses: Industrial chemical

UN No. 1300**Dangerous Goods Class:** 3**Subsidiary Risk:** None**Packing Group:** III**HAZCHEM:** 3 [Y]

Hazardous Nature:	This product is classified as hazardous under HSNO criteria
Exposure Standards:	TEL (air): Not available; TWA : Not available STEL : Not available
Environmental Standards:	EEL (air) : Not available

Physical Characteristics (Typical)		Section 9 of SDS	
Appearance	Clear, colourless liquid		
Boiling Point/Range (°C)	149 -191		
Flash Point (°C)	31		
Specific gravity/Density (g/ml @ 15°C)	0.812		
Chemical Stability	Stable at room temperature and pressure		
Reactivity	Oxidising agents, mineral acids, halogenated organic compounds		
Product Ingredients		Section 3 of SDS	
Kerosene	Various	>	60
1,2,4-Trimethylbenzene	95-63-6	<	20
Propylbenzene and Isopropylbenzene (Cumene)	98-82-8	<	10
Mestylene	108-67-8	<	10

For further ingredients information, please refer to the SDS

Hazardous Statements		Section 2 of SDS	
H226 Flammable liquid and vapour	H306 May be harmful if swallowed and enters airways		
H316 Causes mild skin irritation	H363 May cause damage to organs through prolonged or repeated exposure		
H320 Causes eye irritation	H441 Toxic to aquatic life with long-lasting effects		
H333 May be harmful in inhaled			

For further Hazard and Precautionary information, please refer to the SDS

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, e.g. Flammable Goods N.O.S. (Not otherwise specified), UN 1993
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.
HSNO Act	Hazardous Substance and New Organisms Act – limits and manages the transaction of hazardous substances in New Zealand and her territories.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name:	Mineral Turpentine
Other Names:	Petropine, Turpentine Substitute
Chemical Family:	Aliphatic, cycloparaffinic hydrocarbon
Molecular Formula:	Not applicable
Recommended Use:	Industrial chemical
Supplier:	Australasian Solvents and Chemicals Company Pty. Ltd
Address:	PO Box 8340, Symonds Street, Auckland, N.Z.
Telephone:	0800 754 767
Emergency phone:	CHEMCALL: 0800 243 622
All other inquiries:	0800 754 767

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: 3.1C, 6.1E, 6.3B, 6.4A, 6.9B, 9.1B

Signal word: **WARNING**

Hazard Statements :

H226 Flammable liquid and vapour	H306 May be harmful if swallowed and enters airways
H316 Causes mild skin irritation	H363 May cause damage to organs through prolonged or repeated exposure
H320 Causes eye irritation	H441 Toxic to aquatic life with long lasting effects
H333 May be harmful if inhaled	

Precaution Statements :

P233 Keep container tightly closed	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P242 Use non-sparking tools	P240 Use explosion-proof equipment
P240 Ground container and receiving equipment	P243 Take precautionary measures against static discharge

3. COMPOSITION : Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Kerosene	various	> 60
1,2,4-Trimethylbenzene	95-63-6	< 20
Propylbenzene and Isopropylbenzene (Cumene)	98-82-8	< 10
Mesitylene	108-67-8	< 10
Xylene, mixed isomers	1330-207	< 5

4. FIRST AID MEASURES

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

Swallowed

If swallowed, do not induce vomiting. Give a glass of water if person is conscious. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. For advice, contact the National Poisons Centre (0800 746 766) or a doctor.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

First Aid facilities

Provide eye baths and safety showers close to areas where splashing may occur.

Medical Attention

Treat according to symptoms. Gastric lavage may be indicated if ingested. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

5. 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 fire-fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media :

Dry chemical or foam

Hazards from combustion products:

Carbon dioxide and carbon monoxide

Precautions for fire fighters and special protective equipment:

Full protective clothing and self-contained breathing apparatus

Hazchem Code: 3[Y]

6. ACCIDENTAL RELEASE MEASURES**Emergency Procedures:**

Prevent fluid 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 liquid 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 minimize the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover 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:**

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage:

Store in a cool, dry place away from direct sunlight. Do not pressurize, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible materials:

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS : PERSONAL PROTECTION**Health Exposure Standards:**

The following Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES), 2002 have been set by the Occupational Safety and Health Service , NZ Department of Labour for components in this substance:

	WES-TWA		WES-STEL	
Cumene (skin)	25 ppm	125 kg/m ³	75 ppm	375 mg/m ³

A NIOSH REL concentration for kerosene is 100 mg/m³.

Biological limit values :

None 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 filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.

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 be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Boiling Point/Range	°C	149 – 191
Flash Point	°C	31
Density @ 15°C	g/ml	0.812
Vapour Pressure @ 20°C	kPa	0.429
Vapour Density @ 20°C	kPa	Not available
Autoignition Temperature	°C	> 200
Explosive Limits in Air	%	0.6 – 7
Viscosity	cSt	Not applicable
Volatiles	%	100
Solubility in Water	% w/w	< 0.10

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

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:** No decomposition products except on burning. See "Fire Fighting Measures".
- Hazardous reactions:** Oxidizing agents, mineral acids, halogenated organic compounds.

11. TOXICOLOGICAL INFORMATION**Acute Effects*****Ingestion***

Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness, and tracheal burning.

Eye Contact

This product is irritating to eyes, 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

Inhalation

This product is irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

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 cancer in exposed humans. Accordingly, IARC classified naphthalene as a possible human carcinogen (Group 2B).

Other Health Effects Information: None

Toxicological Information: None

12. ECOLOGICAL INFORMATION**Ecotoxicity:****Aquatic toxicity:** Product is ecotoxic**Persistence/degradability:** Readily biodegradable. Oxidized rapidly by photochemical reactions in air. Does not bioaccumulate significantly.**Mobility:** This product is highly volatile and will rapidly evaporate to the air if released into water.**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 and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. 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 is ashless and can be burned directly in appropriate equipment.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
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	3[Y]	Hazchem	3[Y]		

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group III. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:1999 Transport of Dangerous Goods on Land for information.

15. REGULATORY INFORMATION

Country/ Region: Australia, New Zealand

Inventory: AICS, NZCIL

Status: Listed

ERMA New Zealand Approval Code:

HSR002650 Solvent (Flammable) Group Standard, 2006

HSNO Controls: Codes: F1, F2, F3, F5, F6, F11, F12, F14, F16, F17, T1, T2, T4, T7, T8, P1, P3, P5, PI3, PG3, D2, D4, D6, D7, D8, EM1, EM4, EM6, EM8, EM9, EM10, EM11, EM12, EM13, I1, I5, I8, I9, I11, I13, I16, I19, I21, I25, I28, I29, I30, GN35A.

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

16. OTHER INFORMATION

Reasons for Issue: Updating HSNO information

Abbreviations:

AICS: Australian Inventory of Chemical Substances

NZCI: New Zealand Chemical Inventory

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

References:

Supplier Material Safety Data Sheets

Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

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 Australasian Solvents and Chemicals Company (NZ) Pty. Ltd.