

MINERAL TURPS

Safety Data Sheet

1 IDENTIFICATION

Product name: MINERAL TURPS

Synonyms

Petropine, Turpentine Substitute

Product Code

437

Recommended use: Industrial solvent: cleaning and degreasing

Supplier Name CLEAN PLUS CHEMICALS PTY LTD

Address 16 George Young Street AUBURN NSW 2144

Telephone 02 9738 7444

Fax 02 9644 1777

Emergency 1800 201 700

Email customerservice@cleanplus.com.au

Web Site www.cleanplus.com.au

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2 HAZARDS IDENTIFICATION

Health Hazard Classification

This product is classified as hazardous under Australian GHS criteria

Hazard Categories

Flammable Liquids: 3; Acute Toxicity - Oral: 3; Acute Toxicity - Inhalation: 4; Acute Toxicity - Dermal 4; Acute Aquatic Toxicant: 3

Hazardous Statement

Flammable Liquid and Vapour **GHS Pictograms**



Hazard Statements

H226: Flammable liquid and vapour

H302: Harmful if swallowed

H312: Harmful in contact with skin

AUH066: Repeated exposure may cause skin dryness or cracking

H336: May cause drowsiness or dizziness

Precautionary Statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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

P243: Take precautionary measures against static discharge.

P262: Do not get in eyes, on skin, or on clothing.

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P378: Use sand, earth, or chemical foam to extinguish.

P301+312+101: IF SWALLOWED: Call a POISON CENTER/doctor, if you feel unwell, and have product container or label at hand.

Dangerous Goods Classification 3

Poisons Schedule 5

3 COMPOSITION: Information on Ingredients

| Chemical Ingredient | CAS No. | Proportion (%v/v) |
|---|-----------|-------------------|
| Kerosene | Various | > 60.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | < 20 |
| Propylbenzene and Isopropylbenzene (Cumene) | 98-82-8 | < 10 |
| Mesitylene | 108-67-8 | < 10 |
| Xylene, mixed isomers | 1330-20-7 | < 5 |

4 FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor. **Ingestion**

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate 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.

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 firefighters with this Material 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:**

3Y

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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 minimise 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. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, 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

National Exposure Standards

The time weighted average concentration (TWA) for this product is: 200 mg/m³ (41 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is: None specified, which is the maximum allowable exposure concentration at any time.

Biological limit values

Not available

Engineering Controls: Ventilation

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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 (e.g. PVC) 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 |
| Property | Unit of | Typical value |
| Vapour Pressure @ 20°C | kPa | 0.429 |
| Explosive Limits (LEL – UEL) | % | 0.6 – 7.0 |
| Vapour Density @ 20°C | kPa | Not available |
| Autoignition Temperature | °C | > 200 |
| Viscosity @ 25°C | cSt | Not applicable |
| Percent Volatiles | % | 100 |
| Solubility with 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

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

Hazardous reactions

Oxidizing agents, mineral acids, halogenated organic compounds

Hazardous Polymerisation

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Will not occur

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.

Other Health Effects Information

None

Toxicological

Information Oral LD₅₀:

Not available Dermal

TC_{L0}: Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic

Toxicity

Fish Toxicity (rainbow trout, goldfish, bluegill):

LC₅₀(96hr): Based on data for a similar component or preparation, this product is expected to be toxic to aquatic organisms.

Daphnia Magna EC₅₀ (24 hr):

Not available

Blue-green algae (Toxicity threshold 7-8 days):

Not available

Green algae (Toxicity threshold 7-8 days):

Not available

Persistence/ degradability

This product will evaporate and commence degradation on exposure to light and air.

Mobility

If product enters soil, it will be highly mobile and may contaminate groundwater

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed

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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 | Turpentines | Proper Shipping Name | Turpentines | Proper Shipping Name | Turpentines |
| 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 classed as Dangerous Goods Class 3, packing group III. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

15. REGULATORY INFORMATION

Country/ Region: Australia

Inventory: AICS **Status:** Listed

Poisons Schedule: 5

16. OTHER INFORMATION

Additional Information

ABBREVIATIONS:

- ADB - Air-Dry Basis.
- BEI - Biological Exposure Indice(s)
- CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
- CNS - Central Nervous System.
- EINECS - European Inventory of Existing Commercial Substances.
- GHS - Globally Harmonized System
- IARC - International Agency for Research on Cancer.
- M - moles per litre, a unit of concentration.
- mg/m³ - Milligrams per cubic meter.
- NOS - Not Otherwise Specified.
- NTP - National Toxicology Program.
- OSHA - Occupational Safety and Health Administration.
- pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
- ppm - Parts Per Million.
- RTECS - Registry of Toxic Effects of Chemical Substances.
- TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Clean Plus Chemicals report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Clean Plus Chemicals report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This Safety Data Sheet document has been compiled by Clean Plus Chemicals. Further clarification regarding any aspect of this product should contact Clean Plus Chemicals directly. While Clean Plus Chemicals has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Clean Plus Chemicals accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.