



## SAFETY DATA SHEET

PRODUCT NAME: MINERAL TURPENTINE

July 2013

### IDENTIFICATION

**Product Name:** Mineral Turpentine  
**Other Names:** Mineral Turpentine, Turpentine, Mineral Turps, Turps, Turpentine Substitute, White Spirit, HAWS, High Aromatic White Spirits, Petropine.  
**Product Code:** ZMTURP  
**Uses:** Industrial Solvent  
  
**Supplier:** HamChem Hamilton Chemicals Ltd, 355 Kahikatea Drive, Hamilton  
Phone: 078475840, Fax 078475882, info@hamchem.co.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

### HAZARD IDENTIFICATION

#### DANGER

**Keep out of reach of children**

**Read label and SDS thoroughly before use.**

**HSNO Classifications:** 3.1C, 6.1D, 6.1E, 6.3A, 6.4A, 6.8B, 6.9B, 9.1B, 9.3C

**Transport:** 3 – Flammable

**Hazard Statements:** Flammable liquid and vapour. Harmful if inhaled. May be harmful if swallowed. Causes skin and eye irritation. Suspected of damaging the fertility or the unborn child. May cause damage to organs. Toxic to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.

**Precautions:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof electrical/ventilating/lighting equipment. Use only non sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release into the environment. Water protective gloves/clothing eye/face protection.

### COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
1, 2, 4 – Trimethylbenzene	95-63-6	30 – 60%
Xylenes	1330-20-7	10 – 30%

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1, 3, 5 – Trimethylbenzene	108-67-8	10 – 30%
Propylbenzene	103-65-1	< 10%
Cumen	98-82-8	< 10%
1, 2, 3 – Trimethylbenzene	526-73-8	< 10%

### FIRST AID MEASURES

**If swallowed:** DO NOT induce vomiting. Wash out mouth with water. Where vomiting occurs naturally have victim place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

**If on skin:** Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.

**If inhaled:** Remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

**If in eyes:** Wash with running water holding eyelid(s) open. Take care not to rinse contaminate water into the non affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Note to Physician:** Treat according to symptoms. Gastric lavage may be indicated if ingested. Any product aspirated during vomiting may produce lung injury.

### SYMPTOMS AND EFFECTS, ACUTE AND DELAYED, FROM EXPOSURE

**Ingestion:** Harmful: may cause lung damage if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting. Aspiration into the lungs may result in chemical pneumonitis.

**Skin contact:** Harmful in contact with skin. Product can be absorbed through skin with resultant toxic systemic effects. Irritating to skin. Symptoms may include redness and itchiness.

**Inhalation:** Harmful by inhalation. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system. High concentration may cause central nervous system depression resulting in headaches, dizziness and nausea.

**Eye contact:** Irritating to eyes. On eye contact this product will cause tearing, stinging, burred vision and redness.

**Long term effects:** Target organs include the auditory and central nervous system. May cause hearing loss and affects the nervous system.

### FIRE FIGHTING MEASURES

**Extinguishing media:** DO NOT use water jets. Carbon dioxide, foam or dry chemical powder.

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**Specific hazards:** This product is flammable. Keep storage tanks, pipelines, fire exposed surfaces etc. cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff into sewer may create fire or explosion hazard. Under fire conditions, this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Special protective precautions & equipment:** Fire fighters should wear full protective clothing and self contained breathing apparatus operated in a positive pressure mode. Water spray may be used to keep fire exposed containers cool.

<b>ACCIDENTAL RELEASE MEASURES</b>
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**Minor spills:** Remove or eliminate all ignition sources. Clean up spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear personal protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Collect residues and waste material in a labeled container suitable for flammables. Seal container and dispose of safely.

**Major spills:** Clear area of personnel and move upwind. Alert Fire Bridge (111); advise location and nature of hazard. Wear breathing apparatus plus protective gloves. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Prevent by any means available, spillage from entering drains, sewers, watercourses, or lowlying areas. Eliminate sources of ignition, naked lights. No smoking. Increase ventilation. Water spray or fog may be used to disperse/absorb vapour. Use only spark-proof tools, e.g. shovels, and explosion proof equipment, e.g. pumps. Collect recoverable product into labeled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labeled drums for disposal. Wash area and prevent run off into drains. If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

<b>HANDLING &amp; STORAGE</b>
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**Handling advice:** Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke around product. Wear appropriate protection. It is essential that all who come into contact with this material maintain high standards of personal hygiene.

**Storage advice:** Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents, foodstuffs and out of direct sunlight. Keep containers closed when not in use and securely sealed. Protect against physical damage. Inspect regularly for deficiencies such as damage or leaks. Always keep in containers made of the same material as the supply container. Have appropriate fire extinguisher available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures.

<b>EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>
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**Exposure standards:**

New Zealand Occupational Safety and Health Service (OSH)

Workplace Exposure Standards:

Substance

TWA	STEL	NOTES			
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Toluene		50	188	-	-
Sk					
Ethylbenzene		100	434	125	543
Cumene		25	125	75	375
Sk					
1,3,5-Trimethylbenzene		25	123	-	-
-					

**Engineering controls:** Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required.

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used.

**Personal protective equipment:** Safety glasses with side shields, goggles or full face shield as appropriate. Final choice of appropriate protection will vary according to individual circumstance.

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances.

Suitable work wear should be worn to protect personal clothing. When large quantities are handled, the use of plastic aprons and rubber boots is recommended.

<b>PHYSICAL &amp; CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Colourless liquid
<b>Odour:</b>	Paraffinic odour
<b>Specific Gravity:</b>	0.81
<b>Solubility:</b>	Negligible
<b>Flash point:</b>	42°C
<b>Flammability limits:</b>	Lower: 0.7% Upper: 6.5%
<b>Boiling point:</b>	150-190°C
<b>Melting point:</b>	N/A
<b>pH:</b>	N/A

<b>STABILITY &amp; REACTIVITY</b>
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**Stability:** Stable under normal conditions.

**Hazardous decomposition products:** Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Hazardous polymerization:** Will not occur.

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**Incompatibles:** Strong oxidising agents.

**Conditions to avoid:** Avoid contact with heat, open flame, sparks or ignition sources.

<b>TOXICOLOGICAL INFORMATION</b>
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**Acute Effects**

**Ingestion:** May be harmful if swallowed and if aspirated into lungs during ingestion or vomiting. Symptoms of over-exposure include headache, nausea, dizziness and tracheal burning.

**Eye Contact:** This product is irritating to eyes but will not permanently damage eye tissue.

**Skin Contact:** This product is mildly irritating to skin. Prolonged or repeated exposure will increase risk of dryness and cracking of skin.

**Inhalation:** May be irritating to nose and throat.

**Chronic Effects:** Not specific effects identified.

**Toxicity data:**

Fish: LC50 = 10mg/L

Algae: LC50 = 10mg/L

<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity (Aquatic & Terrestrial):** Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

**Persistence & degradability:** Readily biodegradable. Oxidises rapidly by photo-chemical reactions in the air.

**Bioaccumulative potential:** has the potential to bioaccumulate.

Avoid contaminating waterways.

<b>DISPOSAL CONSIDERATIONS</b>
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Dispose of waste according to all local regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then reused or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.

<b>TRANSPORT INFORMATION</b>
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<b>UN Number:</b>	1300
<b>Proper Shipping name:</b>	TURPENTINE SUBSTITUE
<b>Dangerous Goods Class:</b>	3
<b>Packing group:</b>	III
<b>Hazchem Code:</b>	3[Y]

<b>REGULATORY INFORMATION</b>
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**HSNO Classifications:** 3.1C, 6.1D, 6.1E, 6.3A, 6.4A, 6.8B, 6.9B, 9.1B, 9.3C

<b>OTHER INFORMATION</b>
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**Key to abbreviations:**

**End of SDS.**

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