

Fabricator

MINERAL

TURPENTINE

Revision Number: -
Revision Date: 03/09/2021
Supersedes Date: 23/04/2020

Section 1: IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

1.1. Product identifier

Product name: Mineral Turpentine
Product code: MT1 (1 Litre)
MT5 (5 Litre)
MT20 (20 Litre)

Pure substance/mixture: Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Solvent
Restriction of use: Refer to Section 15

1.3. Details of the supplier of the safety data sheet

Company Name: Glasscorp Limited
124 Bush Road, North Harbour Industrial Estate, Albany, Auckland, New Zealand
Tel: +64 9 415 6338 Fax: +64 9 415 6339 Web: glasscorp.co.nz Email: sales@glasscorp.co.nz

1.4. Emergency telephone number

Emergency telephone: National Poisons Centre: 0800 764 766

Section 2: HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017
EPA Approval Code: Solvents (Flammable, Toxic [6.7]) – HSR002652

2.2. Label elements



Signal word: Danger

HSNO classes	Hazard code	Hazard statement	GHS category
3.1C	H226	Flammable liquid and vapour.	Flam. Liq. 3
6.1D (inh)	H332	Harmful if inhaled.	Acute Tox. 4
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.1E (dermal)	H313	May be harmful in contact with skin.	Acute Tox. 5
6.1E (asp)	H304	May be fatal if swallowed and enters airways.	Asp. Tox. 1
6.3A	H315	Causes skin irritation.	Skin Irrit. 2

6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.7B	H351	Suspected of causing cancer.	Carc. 2
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure by ingestion and by inhalation.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention

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 and lighting.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe fumes, mist, vapours and spray.
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.

Response

P101 - If medical advice is needed, have product container or label at hand.
P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
P331 - Do NOT induce vomiting.
P362 - Take off contaminated clothing and wash before re-use.
P391 - Collect spillage.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE 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 for extinction.

Storage

P405 - Store locked up.
P403 + P235 - Store in a well-ventilated place, Keep cool.

Disposal

P501 - Triple rinse and dispose of according to local regulations.

2.3. Reference to other sections

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous Ingredients	CAS No	Weight %
1, 2, 4- Trimethylbenzene	95- 63- 6	30- 60 %
Xylene	1330- 20- 7	10- 30 %
1, 3, 5- Trimethylbenzene	108- 67- 8	10- 30 %
Ethylbenzene	100- 41- 4	1- <10 %
1, 2, 3- Trimethyl benzene	526- 73- 8	0- <10 %
Cumene	98- 82- 8	0- <10 %
Propyl benzene	103- 65- 1	0- <10 %

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

If Inhaled	Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.
If on Skin	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
If in Eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
If Swallowed	Do not induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Refer to Section 11 for full details.
Swallowed	May be harmful if swallowed. May be fatal if swallowed and enters airways.
Inhaled	Harmful if inhaled.
Eyes	Causes severe eye irritation.
Skin	May be harmful if in contact with skin. Causes skin irritation.

4.3. Advice to Doctors

Treat symptomatically.

4.4. Reference to other sections

Section 11: TOXICOLOGY INFORMATION

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide, dry chemical or foam.
Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazard type Flammable liquid and vapour.
Vapour/air mixtures may ignite explosively.
Flashback along the vapour trail may occur.
Runoff to sewer may create fire or explosion hazard.

Hazards from combustion products Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

5.3. Advice for fire-fighters

Precautions for fire-fighters and special protective clothing Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode.
In case of fire the product may be violently or explosively reactive.
Use water spray to disperse vapours.
This product should be prevented from entering drains and watercourses.

HAZCHEM code 3Y

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Equipment and emergency procedures

Wear appropriate personal protective equipment and clothing to prevent exposure.
Extinguish or remove all sources of ignition and stop leak if safe to do so.
Increase ventilation.
Evacuate all unprotected personnel.

6.2. Environmental precautions

Environmental precautions Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

6.3. Methods and material for containment and cleaning up

Methods for containment If possible, contain the spill. Place inert absorbent, non-combustible material onto spillage.

Methods for cleaning up Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal.
Dispose of waste according to the applicable local and national regulations as detailed in Section 13.

6.4. Reference to other sections

Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe 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 or hot surfaces. No smoking.
- Avoid contact with skin and eyes.
- Regular cleaning of equipment, work area and clothing is recommended.
- 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, mist, vapours and spray.
- Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.
- Do not eat, drink or smoke when using this product.
- It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear overalls, impervious gloves and safety glasses
- Use personal protective equipment as required.

7.2. Precautions for safe storage

- Store locked up.
- Keep out of reach of children.
- Store in a cool, dry, well-ventilated area away from sources of ignition, foodstuffs, clothing and incompatible materials such as oxidising agents.
- Keep containers closed when not in use, securely sealed and protected against physical damage.
- Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area.
- Take precautions against static electricity discharges.
- Use proper grounding procedures.
- Ensure that storage conditions comply with applicable local and national regulations.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Workplace Exposure Standards (provided for guidance only)

Substance	TWA ppm	mg/m ³	STEL ppm	mg/m ³
Xylene Cas 1330- 20- 7	50	217	-	-
Ethylbenzene Cas 100- 41- 4	100	434	125	543
Cumene Cas 98- 82- 8	25	125	75	375

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 (WES-STEL). 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 2019 11TH EDITION

8.2. Engineering controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone.

A flame-proof exhaust ventilation system is required.

If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

Refer to relevant regulations for further information concerning ventilation requirements.

8.3. Personal Protection Equipment

Eyes	Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.
Hands	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Skin	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.
Respiratory	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances
General	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Property	Values	Remarks • Method
Appearance	Clear Colourless Liquid	
Odour	Paraffinic	
Odour threshold	Not available	
pH	Not available	
Boiling point	148 - 200 °C (typical)	
Melting point	Not available	
Freezing point	Not available	
Flash point	31 °C (Abel Closed Cup) (typical)	
Flammability	Flammable liquid and vapour	
Upper and lower explosive limits	0.75 – 6.5%	
Vapour pressure	0.5 kPa (typical)	
Density	800 - 820 kg/m ³ (15 °C) (ASTM D-4052)	
Relative density	Not available	
Specific gravity	Not available	
Soluble in water	Negligible	
Partition coefficient:	Not available	
Auto-ignition temperature	300 °C (typical)	
Decomposition temperature	Not available	
Kinematic viscosity	Not available	

Section 10: STABILITY AND REACTIVITY

10.1. Stability of substance

This product is stable under normal conditions.

10.2. Possibility of hazardous reactions

Reacts with incompatible materials.

10.3. Conditions to avoid

Heat, open flames and other sources of ignition.

10.4. Incompatible materials

Strong oxidising agents.

10.5. Hazardous decomposition products

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

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Effects:	Swallowed	May be harmful if swallowed. May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
	Dermal	May be harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects.
	Inhalation	Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.
	Eye	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
	Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
Chronic Effects:	Carcinogenicity	Suspected of causing cancer. Classified as a suspected human carcinogen. Ethylbenzene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC). Cumene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC). Xylene is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).
	Reproductive Toxicity	Suspected of damaging fertility or the unborn child. Classified as a suspected human reproductive or developmental toxicant.
	Germ Cell Mutagenicity	Not applicable.
	Aspiration	May be fatal if swallowed and enters airways.
	STOT/SE	Not applicable.
	STOT/RE	May cause damage to organs through prolonged or repeated exposure by ingestion and by inhalation.

Section 12: ECOTOXICOLOGICAL INFORMATION

12.1. Ecotoxicity

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.
9.3C = Harmful to terrestrial vertebrates.

12.2. Aquatic Toxicity

Acute Toxicity – Fish LC/EC/IC50: 1 - 10 mg/L
Acute Toxicity – Algae LC/EC/IC50: 1 - 10 mg/L
Acute Toxicity - Other Organisms
Aquatic invertebrates and microorganisms – LC/EC/IC50: 1 - 10mg/L

12.3. Persistence and degradability

Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

12.4. Bioaccumulative potential

Potential for bioaccumulation.

12.5. Mobility in soil

Floats on water.

12.6. Other adverse effects

No data available

12.7. Other information

Do not discharge this material into waterways, drains and sewers.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal method

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Advise flammable nature. Empty containers may contain flammable residues. Do not cut, puncture or weld on or near containers. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.

Product disposal

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a flammable substance and therefore can be sent to an approved high temperature incineration plant for disposal.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container disposal

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

Precautions or methods to avoid

Avoid release to the environment.

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/kg, 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.

Section 15: REGULATORY INFORMATION

EPA Approval Code	Solvents (Flammable, Toxic [6.7]) – HSR002652
HSNO Classification	3.1C, 6.1D(inh), 6.1E(oral, dermal, asp), 6.3A, 6.4A, 6.7B, 6.8B, 6.9B, 9.1B, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity
Certified handlers	Not required
Location certificate	500L(>5L), 1500L(<5L), 250L open (3.1C)
Signage trigger quantities (Schedule 3)	1000L (3.1C)
Emergency response plan (Schedule 5)	1000L(9.1B)
Secondary containment (Schedule 5)	1000L(9.1B)
Tracking (Schedule 26)	Not required
Fire extinguishers	500L = 2 x required
Restriction of use	Only for intended use

Glossary

AWC	Aggregate Water Capacity.
EC ₅₀	Median Effective Concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority.
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal Concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal Dose to kill 50% of test animals/organisms.
LEL	Lower Explosive Level.
OSHA	American Occupational Safety and Health Administration.
STEL	Short Term Exposure Limit.
STOT RE	Specific Target Organ Toxicity - Repeated Exposure.
STOT SE	Specific Target Organ Toxicity - Single Exposure.
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

Prepared By	Glasscorp Limited
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Revision note	-
Training Advice	No information available

Disclaimer

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End of Safety Data Sheet