



SAFETY DATA SHEET

Section 1 - Identification of Substance & Company

Product Xcell Mineral Turpentine **XMT**

Product Identifier: Mineral Turpentine
Product Code: XMT/20
HSNO approval: HSR002652
Approval description: Solvents (Flammable, Toxic [6.7]) Group Standard 2017
UN number: 1300
DG class: 3
Proper Shipping Name: TURPENTINE SUBSTITUTE
Packaging group: III
Hazchem code: 3Y
Identified Uses: Industrial solvent: cleaning and degreasing
Supplier name: Xcell Products NZ
Address (New Zealand): 71F Adams Drive, Auckland, New Zealand

Telephone: +64 9 238 2389 [8.00am – 4:30pm Mon – Fri]
Fax: +64 9 239 2399

Emergency Telephone Number: +64 21 930 795 [24 hours emergency only]
National Poison Centre NZ (24 hours): 0800 POISON [764 766]

Section 2 - Hazard identification

Approval (New Zealand)

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002652, Solvents (Flammable, Toxic [6.7]) Group Standard 2017 and is classified as follows:

GHS 7 Classes

Flammable Liquid cat 3
Aspiration cat 1
STOT Single Exposure cat 3
Carcinogenicity cat 2
Reproductive toxicity cat 2
STOT Repeated Exposure cat 2
Chronic Aquatic cat 2

Hazard statements

H225 - Flammable liquid and vapour.
H304 – May be fatal if swallowed and enters airways.
H335 – May cause respiratory irritation
H351 – Suspected of causing cancer
H361 – Suspected of damaging fertility of the unborn child
H373 – May cause damage to organs through prolonged or repeated exposure.
H411 – Toxic to aquatic life with long lasting effects.

HSNO Classes

3.1C
6.1E (aspiration)
6.1E (respiratory tract irritant)
6.3B

Hazard statements

H225 - Flammable liquid and vapour.
H304 – May be fatal if swallowed and enters airways.
H335 – May cause respiratory irritation
H316 - Causes mild skin irritation.

6.7B	H351 – Suspected of causing cancer
6.8B	H361 – Suspected of damaging fertility of the unborn child
6.9B	H373 – May cause damage to organs through prolonged or repeated exposure.
9.1B	H411 – Toxic to aquatic life with long lasting effects.

Symbols

DANGER



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.

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

P331: Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN: 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 CENTRE/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.

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

P405: Store locked up.

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

Section 3 - Composition/Information on Ingredients

Ingredients	CAS	Conc (%)
Aliphatic hydrocarbon, low aromatic content	64742-81-1	48-58%
<i>Contains:</i>		
1,2,4 Trimethyl benzene	95-96-3	2.0-9.0%
1,3,5 Trimethyl benzene	109-67-8	0.6-3.0%
Ethylbenzene	100-41-4	<0.3%
Solvent Naptha (Petroleum), light aromatic	64742-95-6	47-52%
<i>Contains:</i>		
Cumene	98-82-8	1-5%
Mesitylene (1,3,5 - trimethyl benzene)	108-67-8	5-10%
Naphthalene	91-20-3	<1%
Pseudocumene (1,2,4 - trimethylbenzene)	95-63-6	30-35%

*This is a commercial product whose exact ration of components may way. Trace quantities of impurities are also likely.

Section 4 - First-aid Measures

You should call the National Poisons Centre (New Zealand) if you feel that you may have been harmed or irritated by this product.

Inhalation:	Move the victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.
Eyes:	Flush eye with running water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Skin:	If skin or hair contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Wash contaminated clothing before re-use.
Ingestion:	If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.
Advice to Doctor:	Treat symptomatically.
First Aid Facilities:	Eye wash station and safety shower.

Section 5 - Firefighting Measures

Fire & Explosion Hazards:	Flammable liquid and vapour.
Suitable Extinguishing Substances:	If material is involved in a fire use water fog, and foam. dry chemical, carbon dioxide, sand and earth are suitable for small fires.. Do NOT use straight streams of water.

Products of Combustion	Carbon dioxide and carbon monoxide and other incomplete combustion products.
Protective Equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	3Y

Section 6 - Accidental release measures

Containment:	If greater than 1000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm water.
Emergency procedures:	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak. If safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers or water sources. (If this occurs contact your regional council immediately.)
Clean-up method:	Use absorbent soil, sand or other inert material. Rags are not recommended for clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Disposal:	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only accord with all regulations.
Precautions:	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

Section 7 - Handling and storage

Storage:	Store in a cool, dry, well ventilated place out of direct sunlight. Storage and transfer containers, and associated equipment, should be earthed and bonded to prevent accumulation of static discharge. Do not pressurise, cut, heat or weld containers. This product will fuel a fire in progress.
Handling:	See section 8 with regard to personal protective equipment requirements. Avoid inhaling vapour and contact with skin and eyes. Keep container closed when not in use. Handle containers with care. Open slowly to control possible pressure release. Do not open near naked flame, sources of heat or ignition. Open slowly to control possible pressure release. No splash filling. Material will accumulate static charge which may cause an electrical spark (ignition source). Use bonding and/or earthing measures to avoid discharge (electrical spark) but not this may not eliminate the hazard.

Section 8 - Exposure Controls and Personal Protection

Workplace Exposure Standards – New Zealand

NZ Workplace Exposure Standards	Ingredient	WES-TWA	WES-STEL
	Ethyl benzene	100ppm, 434ng/m ³	125ppm, 543mg/m ³
	Naphthalene	10ppm, 52mg/m ³	15ppm, 79mg/m ³
	Cumene	N/A	75ppm, 375mg/m ³

- Engineering Controls:** 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.
- Eye Protection:** Avoid contact with eyes. Always use safety glasses or a face shield when handling this product. Select eye protection in accordance with AS/NZS 1337.
- Skin Protection:** Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. PVC gloves are recommended. Protective gloves should be suitably resistant to material and comply with AS 2161. Replace frequently.
- Respiratory:** A respirator should be worn when airborne concentrations approach the WES. Respirator should have appropriate Type A filter complaint with AS/NZS 1716. Respirator must be used and maintained in accordance with AS/NZS 1715.

Section 9 - Physical and Chemical Properties

Appearance	Clear, colourless	Solubility	Negligible
Physical State	Liquid	% Volatiles	100%
Odour	Hydrocarbon	Vapour Pressure	N/A
Specific Gravity	0.81-0.82g @20°C	Vapour Density	N/A
pH	No Data	Flash Point	41°C
Explosive Limits	0.6-7.0%	Viscosity	N/A
Boiling Point	154-192°C		

Section 10 - Stability and Reactivity

- Stability:** Stable under normal conditions.
- Conditions to be avoided:** Sources of heat and ignition, open flames.
- Hazardous decomposition products:** Carbon monoxide and carbon dioxide and other organic complexes on incomplete burning or oxidation.
- Hazardous Polymerization:** Will not occur.
- Incompatible Groups** Natural Rubber, Butyl Rubber, EPDM, Polystyrene

Section 11 - Toxicological Information

IF SWALLOWED:	Minimally toxic. Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema.
IF IN EYES:	This product is slightly irritating to eyes, with short lasting discomfort, but will not permanently damage the eye tissue.
IF ON SKIN:	This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.
IF INHALED:	May be irritating to eyes, nose, throat and lungs. May cause central nervous system depression.
CHRONIC TOXICITY:	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).

Acute	Oral	Naphthalene: LD50 (oral, rat): 490mg/kg Ethylbenzene: LD50 (oral, rat): 3,280mg/kg 1,2,4 Trimethyl benzene: LD50 (oral, rat) = 3280mg/kg
	Dermal	Naphthalene: LD50 (dermal, rat): 1120mg/kg
	Inhaled	Ethyl Benzene: LC50 (inhalation, rat): 18mg/L/4 h Trimethyl benzene: LC50 (Inhalation ,rat)= 18mg/L/4 h
	Eye	The mixture is not considered to be an eye irritant.
	Skin	Causes mild skin irritation.
Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	Suspected of causing cancer.
	Reproductive/ Developmental	Suspected of damaging fertility or the unborn child.
	Systemic	May cause damage to organs through prolonged or repeated exposure.
	Aggravation of existing conditions	None known.

Section -12 Ecological Information

Aquatic:	Using EC50 for the ingredients, the calculated EC50 for the the mixture is > 100mg/L
<i>Fish Toxicity, Lc50 (96hr):</i>	Cumene: LC50 (Rainbow Trout): 2.7mg/L
<i>Crustacean Toxicity (Daphnia Magna), EC50 (48hr):</i>	Cumene: EC50: 1.4mg/L
<i>Green Algae Toxicity, EC50 (72hr):</i>	Mesitylene EC50: 2.5mg/L
<i>Blue-green algae toxicity (Cyanobacteria), EC50 (72hr):</i>	Cumene: EC50: 2.6mg/L
Bioaccumulation:	Not expected to bio accumulate significantly.
Degradability:	Expected to be biodegradable. Oxidizes by photo-chemical reactions in air.
Soil:	No evidence of soil toxicity.
Terrestrial vertebrate:	See acute toxicity.
Terrestrial invertebrate:	No evidence of terrestrial invertebrate toxicity.
Biocidal:	No data.
Environmental effect levels:	No EELs are available for this mixture.

Section 13 - Disposal Considerations

Restrictions:	This product is not suitable for disposal by either landfill or sewers, drains, natural streams or rivers; local council and resource consent conditions may apply.
Disposal method:	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated Packaging:	Disposal of contaminated packaging must comply with the hazardous Substances (Disposal) notice 2017 clause 12. Ensure that the package is incapable of containing any substance and is disposed in a manner consistent with the requirements of the substance it contained. Reuse or recycle packaging if possible.

Section - 14 Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN Number:	1300	Proper shipping name:	TURPENTINE SUBSTITUIITE
Class(es):	3	Packing group:	III
Sub. risk	9	Hazchem Code:	3Y

ADG CODE:

UN Number:	1300	Proper shipping name:	TURPENTINE SUBSTITUIITE
Class(es):	3	Packing group:	III
Sub. risk	9	Hazchem Code:	3Y

IMDG:

UN Number:	1300	Proper shipping name:	TURPENTINE SUBSTITUIITE
Class(es):	3	Packing group:	III
Sub. risk	9	Hazchem Code:	3Y

IATA:

UN Number:	1300	Proper shipping name:	TURPENTINE SUBSTITUIITE
Class(es):	3	Packing group:	III
Sub. risk	9	Hazchem Code:	3Y

Section – 15 Regulatory Information

New Zealand:

This product is an approved substances under the Hazardous Substances and New Organisms Act (HSNO) Approval Code: HSR002652, Solvents (Flammable, Toxic [6.7]) Group Standard 2017.

All Components are list on the NZIoC.

Specific Controls

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied.
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency Plan	Threshold quantity: 1,000L

Certified Handler	Not required.
Tracking	Not required.
Bunding & Secondary Containment	Threshold quantity 1,000L
Signage	Threshold Quantity 1,000L
Location Compliance Certificate	Required if > 500L (Closed containers greater than >5L); 1,500L (closed containers up to and including >5L); 250L (open containers).
Fire Extinguisher	Threshold quantity 500L

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, Local Council Rules and Regional Council Plans.

Section 16 - Other information

Date	Reason for review
September 2021	5 yearly update

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