

1. INDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Turf Underlay
Product Code	
Other Names	Turf Soil
Product Use	Media soil for under turf, fill in areas in some lawns
Supplier Name	Tremline Pty Ltd trading as Scapeworks Australia Corner Annangrove Rd and Sedger Rds. Kenthurst NSW 2156
Telephone Number	02 9654 2288
Emergency Telephone	1300 BLOWIT

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS

Classified as hazardous according to the criteria of Safe Work Australia

Hazards	Xn – Harmful
Risk Phrases	R20 – Harmful by inhalation
	R42 – May cause sensitisation by inhalation.
	R43 – May cause sensitisation by skin contact
Safety Phrases	S22 – Do not breathe dust.
	S36/37/39 – Wear suitable protective clothing, gloves, and eye/face protection.
	S38 – In case of insufficient ventilation, wear suitable respiratory equipment

3. COMPOSITION/ INFORMATION ON INGREDIENTS

CAS Number	Percentage			
Not Applicable	40%			
Not Applicable	20%			
dioxide present in two forms: amorphous,				
which is rounded and smooth, and crystalline,				
Not Applicable	10%			
Not Applicable	30%			
	Not Applicable ne, Not Applicable			

4. FIRST AID MEASURES

Inhalation -	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give
	oxygen. Seek medical attention if symptoms persist.

- Ingestion If swallowed immediately rinse mouth with water. Give plenty water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
 Skin - If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair thoroughly with soap and plenty of water. Seek medical attention if symptoms persist. Launder protective clothing before re-use.
- **Eyes -** If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek medical attention if symptoms persist.

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5. FIRE FIGHTING MEASURES

For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.

Suitable Extinguishing Media Hazardous Combustion Unusual Fire or Explosion Hazards Hazchem Code	Water Spray No information available Products Fire Fighting Equipment Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Non-Combustible Material Not Allocated
6. ACCIDENTAL RELEASE MEASU	JRES
Spills	In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection, P1 or P2 particulate respirator (dust mask) and impervious elbow-length gloves. Evacuate general area and deny access to unnecessary and unprotected personnel. Spilled area should be wet down with water to reduce dust generation before clean-up. If unable to reuse or recycle, dispose of waste materials according to applicable local and state government regulations.
7. HANDLING AND STORAGE	
Handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation. Avoid inhaling dust which can be generated during processing, handling, and storage. Use a P1 or P2 particulate respirator (dust mask).
Storage Stockpiles	Store in a cool, dry area. Avoid generating and inhaling dust. Stockpiles are to be maintained and baddered 1:4 Ratio on all sides and piles kept moist to limit dust.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure Standards	Aluminium oxide:
(Safe Work Australia)	TWA: - ppm / 10 mg/m3
	STEL: - ppm / - mg/m3
	Fumed silica (respirable dust):
	TWA: - ppm / 2 mg/m3
	STEL: - ppm / - mg/m3
	Quartz (crystalline silica):
	TWA: - ppm / 0.1mg/m3
	STEL: - ppm / - mg/m3
	Titanium dioxide:
	TWA: - ppm / 10 mg/m3
	STEL: - ppm / - mg/m3
	Nickel (metal):
	TWA: - ppm / 1mg/m3
	STEL: - ppm / - mg/m3
	Nickel (soluble compounds as Ni)
	TWA: - ppm / 0.1 mg/m3
	STEL: - ppm / - mg/m3

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Scapeworks	Safety Data Sheet Turf Underlay	Tremline Pty Ltd - ABN 12 075 880 652 T/A Scapeworks Australia P.O. Box 422, Round Corner NSW 2158. Australia 02 9654 2288 info@scapeworksaustralia.com.au
Engineering Controls	Local exhaust ventilation is recom when vapours can be	mended
Respiratory Protection	released in excess of established a exposure limits. If exposed to dust wear a Safe Wo Australia approved P1 or P2 partic respirator (dust mask). See Austra	ork culate
Eye Protection	Standards AS/NZS 1715 and 1716 more information. Non-fogging dust resistant goggle safety glasses. See Australian Stan AS 1336 and AS/NZS 1337 for mor	s or idards
Skin Protection	information. Wear standard duty gloves, loose, comfortable protective clothing a boots. See Australian Standards A and 2919 and AS/NZS 2210 for mo	nd S 2161
Hygienic Practices	information. Food, beverages and tobacco proc should not be stored or consumed where this material is i Always wash hands before smokir eating, drinking or using the toilet contaminated clothing and other protective equipment before stora re-use. Provide eyewash fountains and sa showers in close proximity to poir potential exposure.	n use. ng, Wash age or fety

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown to grey blend of natural
	organic and mineral substances
Odour	Non specific earthy odour
Solubility in Water	Insoluble
рН	No information available
Boiling Point	Not applicable
Melting Point	Not applicable
Vapour Pressure	Not applicable
Specific Gravity (H2O=1)	No information available
Evaporation Rate (H2O=1)	Not applicable
Flash Point (Closed Cup)	Not applicable
Flammable Limit – Lower	Not applicable
Flammable Limit – Upper	Not applicable
Auto-ignition Temperature	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.	
Incompatible Materials	No information available	
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Hazardous Decomposition	No information available		
Products			
Hazardous Polymerization	Will not occur.		
Conditions to Avoid	No information ava		

11. TOXICOLOGY INFORMATION

Clinker	Clinker ash contains crystalline silica. Inhaling dust generated during handling may cause scarring of the lung (silicosis), lung cancer and chronic bronchitis. It also			
	may increase the risk of scleroderma (thickening of the connective tissue) and			
	kidney disease (increased prevalence of renal abnormalities and end stage – renal			
	disease – glomerulonephritis).			
	Clinker ash also contains environmental toxins in significant amounts, including			
	arsenic (43.4 ppm); barium (806 ppm); beryllium (5 ppm); boron (311 ppm);			
	cadmium(3.4 ppm); chromium (136 ppm); chromium VI (90 ppm); cobalt (35.9			
	ppm); copper (112 ppm); fluorine (29 ppm); lead (56 ppm); manganese (250 ppm); nickel (77.6 ppm); selenium (7.7 ppm); strontium (775 ppm); thallium (9 ppm);			
	vanadium (252 ppm); and zinc (178 ppm).			
	Compost (mulch) is made from organic materials, including composted pine bark,			
	and contains living micro-organisms, including bacteria, fungi, and protozoa. May			
	also contain mineral and fertiliser additives. Inhalation of dust and/or liquid mists			
	may irritate, inflame or sensitise the nose, throat and lungs resulting in illnesses			
	ranging from hay fever or asthma to pneumonia (eg Legionnaire's disease) I or			
	pneumonia-like illnesses. Direct contact with this material or its			
	dust and/or liquid mists (bio-aerosols) may cause skin irritation			
	(dermatitis), and skin or eye infection or irritation.			
Routes of Exposure	Inhalation, ingestion, eye and skin			
Acute Health Effects	Inhalation: abdominal discomfort and increase the risk of gastro-intestinal infections.			
	May cause irritation resulting in redness and watering or even eye infection.			
Chronic Health Effects	Repeated inhalation of dust (bio-aerosols) from these products may result in			
	respiratory irritation, inflammation or sensitisation resulting in illnesses ranging			
	from hay fever and asthma to pneumonia (eg Legionnaire's disease) and			
	pneumonia-like illnesses.			
	It may also cause scarring of the lung (silicosis), lung cancer, chronic bronchitis			
	and increase the risk of scleroderma (thickening of the connective tissue) and			
	kidney disease.			
	All people working with these and other landscaping and horticultural products			
Evisting Conditions Assurated	should ensure that they are adequately protected from tetanus.			
Existing Conditions Aggravated	Pre-existing respiratory diseases.			
by Exposure Carcinogenicity	The International Agana, for Personal on Cancer (IAPC) has elassified envitalling			
Carcinogenicity	The International Agency for Research on Cancer (IARC) has classified crystalline silica as a Type 1 carcinogen - Carcinogenic to humans, based on sufficient			
	evidence in humans and animals.			
12. ECOLOGICAL INFORMATION				
Ecotoxicity	No information available.			
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ECOTOXICITY	No information available.
Mobility	No information available.

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13. DISPOSAL CONSIDERATIONS

Disposal methods and	Dispose according to applicable local and state
containers	government regulations.
Special precautions for landfill	Please consult your state Land Waste Management
or incineration	Authority for more information.

14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the

Transport of Dangerous goods by road or rail.

UN Number	Not applicable
Proper Shipping Name	Not applicable
Dangerous Goods Class	Not applicable
Hazchem Code	Not applicable
Packing Group	Not applicable
Special Precautions	Not applicable

15. REGULATORY INFORMATION

Silicon dioxide is listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION Last Revision of MSDS Rev 2.0 04/01/2018) Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au Revised by Tremline Pty Ltd trading as Scapeworks Australia Abbreviations Used IARC: International Agency for Research on Cancer NTP: National Toxicology Program (ULS)

	Australia
Abbreviations Used	IARC: International Agency for Research on Cancer
	NTP: National Toxicology Program (U.S.)
	OSHA: Occupational Safety and Health Administration
	(U.S.)
	STEL: Short term exposure limit
	TWA: Time weighted average
Emergency Contacts	02 9654 2288
Tremline Pty Ltd trading as Scapeworks	1300 BLOWIT
Australia	
Tremline Pty Ltd trading as Scapeworks	
Australia – Emergency Number	
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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