

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| Product Name | B Horizon Subsoil |
| Product Code | |
| Other Names | B Horizon |
| Product Use | Media for lower level of planter boxes |
| 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

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| 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

| Ingredient (common name) | CAS Number | Percentage |
|--|-------------------|-------------------|
| Compost, mulches and other organic gardening material | Not Applicable | 25% |
| Clinker ash (which consist mostly of silicon dioxide present in two forms: amorphous, which is rounded and smooth, and crystalline, which is sharp, pointed and hazardous, aluminium oxide and iron oxide) | Not Applicable | 50% |
| Raw pine bark | Not Applicable | 10% |
| Composted Pine Bark | Not Applicable | 15% |

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.

5. FIRE FIGHTING MEASURES

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

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| Suitable Extinguishing | Water Spray |
| Media Hazardous Combustion | No information available Products Fire Fighting Equipment Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. |
| Unusual Fire or Explosion Hazards | Non-Combustible Material |
| Hazchem Code | Not Allocated |

6. ACCIDENTAL RELEASE MEASURES

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| 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. |
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7. HANDLING AND STORAGE

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| 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 | Store in a cool, dry area. Avoid generating and inhaling dust. |

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

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| Exposure Standards (Safe Work Australia) | Aluminium oxide: |
| | TWA: - ppm / 10 mg/m ³ |
| | STEL: - ppm / - mg/m ³ |
| | Fumed silica (respirable dust): |
| | TWA: - ppm / 2 mg/m ³ |
| | STEL: - ppm / - mg/m ³ |
| | Quartz (crystalline silica): |
| | TWA: - ppm / 0.1mg/m ³ |
| | STEL: - ppm / - mg/m ³ |
| | Titanium dioxide: |
| TWA: - ppm / 10 mg/m ³ | |
| STEL: - ppm / - mg/m ³ | |
| Nickel (metal): | |
| TWA: - ppm / 1mg/m ³ | |
| STEL: - ppm / - mg/m ³ | |
| Nickel (soluble compounds as Ni) | |
| TWA: - ppm / 0.1 mg/m ³ | |
| STEL: - ppm / - mg/m ³ | |
| Engineering Controls | Local exhaust ventilation is recommended when vapours can be |

Respiratory Protection

released in excess of established airborne exposure limits.

If exposed to dust wear a Safe Work Australia approved P1 or P2 particulate respirator (dust mask). See Australian Standards AS/NZS 1715 and 1716 for more information.

Eye Protection

Non-fogging dust resistant goggles or safety glasses. See Australian Standards AS 1336 and AS/NZS 1337 for more information.

Skin Protection

Wear standard duty gloves, loose, comfortable protective clothing and boots. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.

Hygienic Practices

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

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

pH

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

Hazardous Decomposition

No information available

Products

No information available

Hazardous Polymerization Will not occur.
Conditions to Avoid No information available

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) 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.
Ingestion: 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 should ensure that they are adequately protected from tetanus.

Existing Conditions Aggravated by Exposure Pre-existing respiratory diseases.

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.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers Dispose according to applicable local and state government regulations.

Special precautions for landfill or incineration Please consult your state Land Waste Management 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 Treline Pty Ltd trading as Scapeworks 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
Treline Pty Ltd trading as Scapeworks Australia 02 9654 2288
Treline Pty Ltd trading as Scapeworks Australia – Emergency Number 1300 BLOWIT
Police and Fire Brigade 000
Poisons Information Centre 13 11 26