

MATERIAL SAFETY DATA SHEET

SILICA SAND

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Silica Sand
Product Code	
Other Names	
Product Use	Drainage, Fill, Playground
Supplier Name	Tremline Pty Ltd trading as The Hills BARK BLOWER 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

Ingredient (common name)	CAS Number	Percentage
Sand – Crystalline Silica (quartz)	14808-60-7	95%
Mineral and Organic Impurities	various	<5%

4. FIRST AID MEASURES

**Repeated inhalation of silica sand dust containing crystalline silica may cause scarring of the lung (silicosis).
Persons exposed to crystalline silica increase the risk of silicosis, bronchitis and lung cancer if they smoke.**

Inhalation	If inhaled remove to fresh air.
Ingestion	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.
Suitable Extinguishing Media	Water Spray
Hazardous Combustion Products	No information available
Fire Fighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Exposion Hazards	Non Combustible Material
Hazchem Code	Not Allocated

6. ACCIDENTAL RELEASE MEASURES

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 cleanup. 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

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. Care should be taken with large stockpiles where the steep face of a stockpile could collapse eventuating in injury or death. Cover all loads when transporting by road.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)

Aluminium oxide:

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

Engineering Controls

Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.

Respiratory Protection

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

Granular Sand ranging in colour from tan to orange brown

Odour

Normally no odour

Solubility in Water

Insoluble

pH

Between 4.5 – 7.0

Boiling Point

Not applicable

Melting Point

Not applicable

Vapour Pressure

Not applicable

Specific Gravity (H₂O=1)

2.0-3.0

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

Does not auto ignite

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGY INFORMATION

Silica Sand **Silica Sand** 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).

Routes of Exposure Inhalation, ingestion, eye and skin

Acute Health Effects

Inhalation: May cause irritation, inflammation and sensitisation of the nose, throat and lungs.

Ingestion: Unlikely under normal conditions, but swallowing this product will result in abdominal discomfort and increase the risk of gastrointestinal infections.

Eye: May cause irritation resulting in redness and watering or even eye infection.

Skin: May cause irritation and in some people may lead to skin sensitisation, dermatitis or skin infection.

Chronic Health Effects Repeated inhalation may cause scarring of the lung (silicosis), lung cancer, chronic bronchitis and increase the risk of scleroderma (thickening of the connective tissue) and kidney disease.

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
Abbreviations Used	Reviewed by Tremline Pty Ltd trading as The Hills Bark Blower 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 The Hills Bark Blower	1300 BLOWIT
Tremline Pty Ltd trading as The Hills Bark Blower – Emergency Number	000
Police and Fire Brigade	13 11 26
Poisons Information Centre	

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This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]