

# MATERIAL SAFETY DATA SHEET

## Recycled Aggregates

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	Recycled Aggregate
<b>Product Code</b>	-
<b>Other Names</b>	10mm and 20mm Recycled Aggregate
<b>Product Use</b>	Drainage, behind retaining walls, backfill in trenches, construction material
<b>Supplier Name</b>	Tremline Pty Ltd trading as The Hills Bark Blower
<b>Address</b>	Corner Annangrove and Sedger Roads Kenthurst NSW 2156
<b>Telephone Number</b>	02 9654 2288
<b>Emergency Telephone</b>	1300 BLOWIT

### 2. HAZARDS IDENTIFICATION

#### STATEMENT OF HAZARDOUS NATURE:

HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

Dust of recycled aggregates may contain crystalline silica some of which may be respirable (particles small enough to go into the deep parts of the lungs when breathed in). As a result of above Dust in/on the supplied product or created when product is processed, abraded, crushed, or blown, is classified as Hazardous according to the Australian criteria for the classification of chemicals.

Recycled Aggregates are classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Recycled aggregates are aggregates derived from the processing of materials previously used buildings or constructions made up of material like brick, concrete and quarry material and processed into a product by crushing and screening.

#### Substances / Mixtures

Ingredient	Content
Aggregate, Sand, crush stone or gravel or slag, quartz, VENM containing crystalline silica (quartz),	30 to 90%
Portland Cement	1 to 50%
Water	2 to 30%
Ashes, Residue (Flyash)	Up to 20%
Gypsum (CaSO <sub>4</sub> .2H <sub>2</sub> O)	Up to 10%
Limestone (CaCO <sub>3</sub> )	Up to 10%
Hexavalent Chromium (Contaminant)	2 to 20ppm

#### Additional Ingredients May Include:

Ingredient	Content
Pigment (Colouring)	Up to 10%
Alkyltrialkoxo silane/siloxane	Up to 5%
Fatty Acid salt Not	Up to 5%

Mineral Filler

Up to 5%

Other Additives

Up to 1%

Notes:

1. Depending upon the source material, may contain varying amounts of respirable quartz (crystalline silica) and ACM.
2. Chromium VI is a trace impurity in Portland Cement.
3. Although rare, may contain trace amounts (<0.01%) of Respirable Elongated Mineral Particulates. The levels detected are determined to be well below the threshold level.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

**Eye** - If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** - If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** - If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** - For advice, contact a Poisons Information Centre (PIC) or a doctor (at once). Due to product form and application, ingestion is considered unlikely. First aid facilities Eye wash facilities and safety shower are recommended.

##### **Most important symptoms and effects, both acute and delayed**

Some Individuals may exhibit an allergic response upon exposure to this product, possibly due to the trace amounts of chromium present. Chronic exposure to crystalline silica may result in lung fibrosis (silicosis). Principal symptoms of silicosis include coughing and breathlessness. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).

#### 5. FIRE FIGHTING MEASURES

Non-flammable. Non-combustible

Use an extinguishing agent suitable for the surrounding fire.

#### 6. ACCIDENTAL RELEASE MEASURES

**Wear Personal Protective Equipment (PPE)** as detailed in Section 8 of this SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

##### **Prevent product from entering drains and waterways**

Contain spillage, keep moist and place in suitable containers for disposal or reapplication. Within enclosed environments clean spill site using wet methods or an approved industrial vacuum device. Avoid generating dust.

#### 7. HANDLING AND STORAGE

**Before use carefully read the SDS.**

##### **Installing**

Install and handle only with water added to the product, including through any loading and stockpiling. A perimeter



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and exclusion zone of 10m is to be established when installing this product. Only trained personnel/workers to install this product.

# Refer to - 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**The use of safe work practices**

It is recommended to avoid eye or skin contact and inhalation. Silica dust can be generated when product is handled, limit for asbestos in accordance with AS4964-2004 is 0.1g / kg. Observe good personal hygiene, including washing hands before eating. All stockpiles and dumps should be inspected, maintained, and damp. This product is recycled through the system of crushing and screening. Keep product moist to prevent any development of dust.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure standards**

Ingredient	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
QUARTZ (RESPIRABLE DUST)	SWA (AUS)	-	0.1	-	-
CHROMIUM (VI) COMPOUNDS	SWA (AUS)	-	0.05	-	-
PORTLAND CEMENT	SWA (AUS)	-	10	-	-

limit for asbestos in this product in accordance with AS4964-2004 is 0.1g / kg.

**Biological limits**

No biological limit values have been entered for this product.

**Engineering Controls**

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain Quartz (Crystalline Silica) levels below the recommended exposure standard. Keep product moist, never allow dust to be generated.

**PPE Personal protective equipment**

PPE should meet recommended national standards. Check with PPE suppliers.

**Eye / Face**

Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes.

**Hands**

Wear PVC, rubber or cotton gloves when handling material to prevent skin contact.

**Body**

Wear long sleeved shirt and full-length trousers.

**Respiratory**

Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site-specific risk assessment.

**Maintenance of PPE**

Clean all PPE after handling product, dispose of unwanted or damaged items. Wash clothing separately.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	MOULDABLE GENERALLY GREY MIXTURE
Odour	SLIGHT ODOUR
Flammability	NON-FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT RELEVANT
Melting point	> 1200°C
Evaporation rate	NOT AVAILABLE – only moisture content
pH	7 – 12 (depending on the nature of recycled materials)
Vapour density	NOT AVAILABLE
Specific gravity	2.32
Solubility (water)	INSOLUBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT EXPLOSIVE
Oxidising properties	NON-OXIDISING
Odour threshold	NOT AVAILABLE

### Other information

Particle Size	Ranging from dust (<6mm) up to 90mm
Bulk density	1.32 t/m <sup>3</sup>

## 10. STABILITY AND REACTIVITY

### Reactivity

Carefully review all information provided in section 10

### Chemical stability

Stable under recommended conditions of storage.

### Possibility of hazardous reactions

Polymerization will not occur.

### Conditions to avoid

Avoid wetting product to a point of slurry. Avoid dust generation.

### Incompatible materials

Incompatible with oxidising agents (eg. hypochlorites) and strong acids (eg. hydrofluoric acid).

### Hazardous decomposition products

May evolve toxic gases if heated to decomposition (>1200°C).

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### **Acute toxicity**

No known toxicity data is available for this product. Based on available data, the classification criteria are not met.

#### **Skin**

Contact with powder or wetted form may result in irritation, rash, dermatitis and possible burns with prolonged and repeated contact.

#### **Eye**

Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.

#### **Sensitization**

Some individuals may exhibit an allergic response upon exposure to this product, possibly due to the trace amounts of chromium present.

#### **Mutagenicity**

Insufficient data available to classify as a mutagen.

#### **Carcinogenicity**

This product contains crystalline silica and trace amounts of hexavalent chromium compounds which are classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk.

#### **Reproductive**

Insufficient data available to classify as a reproductive toxin.

#### **STOT – single exposure**

Over exposure may result in irritation of the nose and throat, with coughing. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated.

#### **STOT – repeated exposure**

Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are cough and breathlessness.

#### **Aspiration**

This product is not expected to present an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

### Toxicity

The main component/s of this product are not anticipated to cause any adverse effects to the environment.

### Persistence and degradability

Product is persistent and non-degradable.

### Bio accumulative potential

This product is not expected to bioaccumulate.

### Mobility in soil

A low mobility would be expected in a landfill situation.

### Other adverse effects

Prevent contamination of drains or waterways.

### 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment methods**

Waste disposal Reuse or recycle where possible. Alternatively, ensure product is kept moist to prevent dust generation and dispose of within an approved landfill site. Contact the manufacturer for additional information. Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

### 15. REGULATORY INFORMATION (AICS).

#### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Poison schedule**

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

#### **Classifications**

Xi; Irritant, Xn; Harmful

#### **Risk phrases**

R43: May cause sensitisation by skin contact.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

#### **Safety phrases**

S22: Do not breathe dust.

S24/25: Avoid contact with skin and eyes.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell seek medical advice immediately.

#### **Inventory listing(s)**

AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or exempt.

### 16. OTHER INFORMATION

#### **Abbreviations**

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indices(s).

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

IARC - International Agency for Research on Cancer. mg/m<sup>3</sup> - Milligrams per Cubic Metre.

#### **Product name**

Recycled Concrete



EST. 1997



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### **Report status**

This document has been compiled by The Hills Bark Blower, installer and supplier of the product as their Safety Data Sheet ('SDS').

The information presented herein is based on data considered to be accurate from the producer/manufacturer as of the date of preparation of this SDS. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, without a risk assessment for safe use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the products. This Safety Data Sheet (SDS) applies only to the formulated material as supplied by The Hills Bark Blower. It does not apply where the formulation has been altered. In this case a new SDS may be required to reflect the modified material. Contact us for further information.

### **Prepared by**

The Hills Bark Blower from information gathered from suppliers.

### **Revision History**

Revision 01

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