

**SAFETY DATA SHEET****1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER****1.1 Product identifier**

**Product name:** SILICA SAND

**Synonym(s):** • 3-5MM Aggregate • Bundy 800 (Medium) Sand • Glass Sand • Superfine Sand • Softfall Sand  
• Top Dressing Sand • Bunker Sand • Bio-Retention Filter Blend • Synthetic Grass Sand • Foundry Sand  
• Traction Sand • Boiler Sand • C3, C2, C1, F16, F14, F12, F8, F6, F4 and SF2 Sands

**1.2 Uses and uses advised against**

**Use(s):** • Decorative Aggregate • Water Filtration • Glass Manufacture • Foundry Casting • Concrete • Sports Surfaces • Traction Aid • Textured and Render Finishes • Inert Filler • Adhesives and Grouts • Epoxy Flooring • 3D Printing

**1.3 Details of the supplier of the product**

**Supplier Name Address:** SUNSTATE SANDS AUSTRALIA PTY LTD

**Telephone:** Palm Beach Rd, Coonarr, QLD, 4670, AUSTRALIA

**Fax:** (07) 4159 7811 (07) 4159 7656

**Email:** [mail@sunstatesands.com.au](mailto:mail@sunstatesands.com.au)

**Website:** [www.sunstatesands.com.au](http://www.sunstatesands.com.au)

**1.4 Emergency telephone number(s)**

**Emergency:** (07) 4159 7811

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

**CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS**, especially when the product is further processed, abraded or crushed. Dust created from this kind of processing will contain crystalline silica, which may be respirable (*particles small enough to go into the deep parts of the lungs when breathed in*). Recommendations on exposure controls and personal protection (*see Section 8.0*) should be followed.

**GHS classification(s)** Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 1 of 8	

**2.2 Label elements**



<b>Signal word</b>	<b>WARNING</b>	<b>Pictogram(s)</b>	<b>Hazard statement(s)</b>
H373			May cause damage to organs through prolonged or repeated exposure.

**Prevention statement(s)**  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

**Response statement(s)**  
P314 Get medical advice/attention if you feel unwell.

**Storage statement(s)** None allocated.

**Disposal statement(s)**  
P501 Dispose of contents/container in accordance with relevant regulations.

**2.3 Other hazards** No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.1 Substances / Mixtures**

Ingredient	CAS Number	EC Number	Content
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	>60%

**4. FIRST AID MEASURES**

**4.1 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 Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Due to product form and application, ingestion is considered unlikely.

**First aid facilities:** Eye wash facilities and safety shower should be available.

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 2 of 8	

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

Chronic exposure to crystalline silica may result in lung fibrosis (silicosis). Principal symptoms of silicosis are coughing and breathlessness. Crystalline silica is classified as carcinogenic to humans (IARC Group 1).

### **4.3 Immediate medical attention and special treatment needed** Treat symptomatically.

---

## **5. FIRE FIGHTING MEASURES**

**5.1 Extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.

**5.2 Special hazards arising from the substance or mixture:** Non flammable. May evolve toxic gases if strongly heated.

**5.3 Advice for firefighters:** No fire or explosion hazard exists.

**5.4 Hazchem code** None allocated.

---

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures :**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

### **6.2 Environmental precautions**

Prevent product from entering drains and waterways.

### **6.3 Methods of cleaning up**

Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust. If spillage is to be swept or shovelled into containers, it should be wetted down with water to reduce dust generation.

### **6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

---

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs.

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 3 of 8	

### 7.3 Specific end use(s)

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Quartz (respirable dust)	SWA (AUS)	--	0.05	--	--

### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

**Engineering controls:** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Wet where possible. Maintain dust levels below the recommended exposure standard.

### 8.3 PPE:

**Eye / Face:** Wear dust-proof goggles.

**Hands:** Wear PVC or rubber or cotton gloves.

**Body:** When using large quantities or where heavy contamination is likely, wear coveralls.

**Respiratory:** Where an inhalation risk exists, wear a Class P1 (Particulate) respirator or a Class P2 (Particulate) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance:** GRANULAR SOLID  
**Odour:** ODOURLESS  
**Flammability:** NON FLAMMABLE  
**Flash point:** NOT RELEVANT

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 4 of 8	

<b>Boiling point:</b>	NOT AVAILABLE
<b>Melting point:</b>	> 1200°C
<b>Evaporation rate:</b>	NOT AVAILABLE
<b>pH:</b>	NOT AVAILABLE
<b>Vapour density:</b>	NOT AVAILABLE
<b>Specific gravity:</b>	NOT AVAILABLE
<b>Solubility (water):</b>	< 2 g/L
<b>Vapour pressure:</b>	NOT AVAILABLE
<b>Upper explosion limit:</b>	NOT RELEVANT
<b>Lower explosion limit:</b>	NOT RELEVANT
<b>Partition coefficient:</b>	NOT AVAILABLE
<b>Autoignition temperature:</b>	NOT AVAILABLE
<b>Decomposition temperature:</b>	NOT AVAILABLE
<b>Viscosity:</b>	NOT AVAILABLE
<b>Explosive properties:</b>	NOT AVAILABLE
<b>Oxidising properties:</b>	NOT AVAILABLE
<b>Odour threshold:</b>	NOT AVAILABLE

**9.2 Other information**

**Bulk density:** 1500 kg/m<sup>3</sup>

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity:** Carefully review all information provided in sections 10.2 to 10.6.

**10.2 Chemical stability:** Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions :** Polymerization will not occur.

**10.4 Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources.

**10.5 Incompatible materials:** Incompatible with strong acids (e.g. hydrofluoric acid).

**10.6 Hazardous decomposition products:** May evolve silicon oxides when heated to decomposition.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity:** **Information available for the product:**  
No known toxicity data is available for this product. Based on available data, the classification criteria are not applicable.

**Skin:** Contact may result in mechanical irritation, redness, rash and dermatitis.

**Eye:** Contact may result in mechanical irritation, lacrimation and redness.

**Sensitisation:** Not classified as causing skin or respiratory sensitisation.

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 5 of 8	

- Mutagenicity:** Insufficient data available to classify as a mutagen.
- Carcinogenicity:** Crystalline silica is classified as carcinogenic to humans (IARC Group 1). However, there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis.
- Reproductive** Insufficient data available to classify as a reproductive toxin.
- STOT – single exposure:** Not classified as causing organ damage from single exposure.
- STOT – repeated exposure:** Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused by deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness.
- Aspiration:** This product is a solid and aspiration hazards are not expected to occur.

### 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity:** Silica Sands pose no ecological risk. They are non-toxic to aquatic and terrestrial organisms and are biodegradable.
- 12.2 Persistence and degradability:** Product is persistent and non-degradable.
- 12.3 Bioaccumulative potential:** This product is not expected to bioaccumulate.
- 12.4 Mobility in soil:** Low mobility would be expected in a landfill situation.
- 12.5 Other adverse effects** No information provided.

### 13. DISPOSAL CONSIDERATIONS

#### **13.1 Waste treatment methods:**

- Waste disposal:** Ensure product is covered with moist soil to prevent dust generation and dispose of to approved Council landfill. Contact the manufacturer/supplier for additional information (if required).
- Legislation:** 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**

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
<b>14.1 UN Number</b>	None Allocated	None Allocated	None Allocated

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 6 of 8	

<b>14.2 Proper Shipping Name</b>	None Allocated	None Allocated	None Allocated
<b>14.3 Transport Hazard Class</b>	None Allocated	None Allocated	None Allocated
<b>14.4 Packing Group</b>	None Allocated	None Allocated	None Allocated

**14.5 Environmental hazards:** No information provided

**14.6 Special precautions for user:** Hazchem code - None Allocated

### 15. REGULATORY INFORMATION

#### 15.1 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:** Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

**Hazard codes:** Xn Harmful

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

**Safety phrases:**  
 S22 Do not breathe dust.  
 S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
 S53 Avoid exposure - obtain special instructions before use.

**Inventory listing(s):** **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)** All components are listed on AICS, or are exempt.

### 16. OTHER INFORMATION

**Additional Information:**

**Personal Protective Equipment Guideline:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Health Effects From Exposure:**

It should be noted that the effects from exposure to this product will depend on several factors including frequency and duration of use; quantity uses; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 7 of 8	

report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS#	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m <sup>3</sup>	Milligrams per Cubic Metre
OEL pH	Occupational Exposure Limit relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

**Disclaimer:**

The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. When used in other preparations, formulations or in mixtures, it is necessary to ascertain whether the classification of hazards has changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it is recommended. In such cases a reassessment may be necessary and should be made by the user. This SDS should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work. It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come into contact with, handle or use this product in any way. They should check the adequacy of the information provided within this SDS before passing it on to their customers / staff.

**End of SDS**

**Date of Issue:** 18.12.2020  
**Authorised by:** Matt Holloway  
**Issue Number:** 13  
**Maximum Review Interval:** 5 years.

Prepared by:	Samantha Austin	Document Ref No:	SSB-HSE-SDS-E11-11.01	Ver No:	13
Approved by:	Darren Wardle	Issue Date	18.12.2020	Page 8 of 8	