

## 1: Identification of Material and Supplier

### 1.1 Product identifier

**Product Name:** Crystalline silica sand  
**Other Names:** Unscreened sand, Screened sand, washed sand, bedding sand

### 1.2 Uses and uses advised against

**Use(s):** backfill for utility pipes such as water, gas or electric. Horse arena construction, Sandbags, concrete sand, sand pits, paving, turf sand, rendering

### 1.3 Details of the supplier of the product

**Supplier name:** Batesford Quarry  
**Address:** 240 Fyansford-Gheringhap Rd, Fyansford, Victoria, 3218, PO Box 120, Geelong, Victoria, 3220  
**ABN:** 90 577 930 8561  
**Telephone:** (03) 5222 7100  
**Email:** [Mark.malone@batesfordquarry.com.au](mailto:Mark.malone@batesfordquarry.com.au)  
**Website:** [www.batesfordquarry.com.au](http://www.batesfordquarry.com.au)

### 1.4 Emergency telephone numbers

**Contact:** Mark Malone  
**Business Hours:** (03) 5222 7100  
**After Hours:** 0409 590 139  
**Emergency A/H:** 13 11 26 (Poisons Information Centre)

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

Classified as Hazardous according to Safe Work Australia Criteria

#### GHS Classification(s):

Serious eye Damage / Eye irritation:	Category 1
Specific Target organ Systemic Toxicity (Repeated Exposure):	Category 2
Skin corrosion / irritation:	Category 2

### 2.2 Label Elements

**Signal Word:** Warning

**Pictogram:**



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### Hazard Statement(s):

- H319 Causes eye irritation.  
 H335 May cause respiratory irritation.  
 H373 Causes damage to organs through prolonged or repeated exposure if inhaled.

### Prevention Statement(s):

- P202 Do not handle until all safety precautions have been read and understood.  
 P261 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P281 Use personal protective equipment as required.

### Response Statement(s):

- P302 + P352 **IF ON SKIN:** Wash with plenty of soap and water.  
 P304 + P340 **IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTRE or doctor/physician if you feel unwell  
 P314 Get medical advice/attention if you feel unwell

### Storage Statement(s):

### Disposal Statement(s):

- P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other Hazards

No information

## Section 3: Composition/Information on Ingredients

### 3.1 Substances / Mixtures

Name	CAS No.	Content (%)
Crystalline silica - quartz	14808-60-7	10-<30

**Ingredient notes** Approximately 1% of this material is composed of particles less than <10 microns in diameter (i.e. in the respirable particle size range)

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

- Eye:** Irrigate with copious quantities of water for 15 minutes with eyelids held open  
 Do not rub eyes  
 In all cases of eye contamination, it is recommended to seek medical advice
- Inhalation:** Remove exposed person from source of exposure to fresh air  
 Seek medical advice if effects persist
- Skin:** Wash contaminated area of skin with water

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	Remove contaminated clothing and launder before re-use
	Seek medical advice if irritation develops or persists
<b>Ingestion:</b>	Rinse mouth and lips with water
	If swallowed, give plenty of water to drink
	Do not induce vomiting
	Seek medical advice if symptoms persist
<b>First aid facilities:</b>	Eyewash Facilities should be available

### **4.2 immediate medical attention and special treatment**

Treat symptomatically

## **Section 5: Fire Fighting Measures**

### **5.1 Extinguishing media**

Use of an extinguishing agent suitable for the surrounding fire.

### **5.2 Special hazards arising from the substance or mixture**

Non-flammable. May evolve toxic gasses if strongly heated.

May conduct extreme Heat if mixed with acids.

### **5.3 Advice for fire fighters**

No fire hazards exist.

### **5.4 Hazchem code**

None allocated

## **Section 6: Accidental Release Measures**

### **6.1 Personal Precautions**

Wear personal Protective equipment 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 keep moist and place into suitable containers for disposal or reapplication.

Within enclosed environments clean spill area with wet methods or an approved industrial vacuum device. Avoid generating dust.

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

Section 8 Exposure controls / Personal protection.

Section 13 Disposal controls

## **Section 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.

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Observe good personal hygiene, including washing hands prior to eating, drinking and smoking in contaminated areas

### 7.2 Conditions for safe storage

Store in a cool place, dry, well ventilated area, removed from incompatible substances. Ensure material is well Marked. If stored in containers, ensure containers are adequately labelled

### 7.3 Specific end use(s)

No information

## Section 8 – Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure Standards

Chemical	CAS Number	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Crystalline silica - quartz	14808-60-7	-	0.05	-	-

#### Biological limits

No biological limits have been added for this product.

### 8.2 Exposure controls

**Engineering Controls:** Avoid inhalation. Use in well ventilated areas. Where inhalation risk exists a mechanical extraction, ventilation is recommended. Maintain dust levels below the recommended exposure limits.

#### Personal Protective Equipment (PPE):

**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, long trousers or overalls.

**Respiratory:** Where inhalation exists wear a class P2 (particulate) Respirator, dependent on the site-specific risk assessment.



## Section 9 – Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Light tan / grey free flowing granular material
<b>Odour</b>	Odourless
<b>Flammability</b>	Non-flammable
<b>Flash point</b>	N/A
<b>Boiling point</b>	>1414 <sup>o</sup> C
<b>Melting point</b>	>1650 <sup>o</sup> C
<b>Evaporation rate</b>	N/A
<b>PH</b>	12 at 5g/100ml
<b>Vapor density</b>	N/A
<b>Specific gravity</b>	2700kg / m <sup>3</sup>
<b>Solubility (water)</b>	Insoluble
<b>Vapor 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 relevant
<b>Decomposition temperature</b>	>1710 <sup>o</sup> C
<b>Viscosity</b>	Not available
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Not available
<b>Odour Threshold</b>	Not relevant
<b>Bulk density</b>	1140 kg / m <sup>3</sup>
<b>Particle size</b>	1% less than 7 µm

## Section 10 – Stability and Reactivity

### 10.1 Reactivity

Carefully review all information provided in 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

### 10.4 conditions to avoid

Avoid dust generation.

### 10.5 incompatible materials

No incompatible materials.

### 10.6 Hazardous decomposition products

This material will not decompose to form hazardous products.

## Section 11 – Toxicological Information

### 11.1 Information on toxicological effects

<b>Acute toxicity:</b>	<p>This product is expected to be of a high toxicity, under normal conditions of use adverse health effects are not anticipated.</p> <p>Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation</p> <p>Silicosis occurs after a few months or as long as two years following exposures to extremely high concentrations of respirable crystalline silica. Symptoms of acute silicosis include severe disabling shortness of breath, weakness and weight loss, which often leads to death</p>
<b>Skin:</b>	silica dust: May cause irritation through mechanical abrasion.
<b>Eye:</b>	silica dust: May cause irritation Through mechanical abrasion.
<b>Inhalation:</b>	<p>Repeated inhalation of respirable crystalline silica (quartz) may cause silicosis, a fibrosis (scarring) of the lungs. Silicosis is irreversible and may be fatal. Silicosis increases the risk of contracting pulmonary tuberculosis. Some studies suggest that repeated inhalation of respirable crystalline silica may cause other adverse health effects including lung and kidney cancer</p>
<b>Carcinogenicity:</b>	<p>Repeated or prolonged breathing of silica dust may result in a chronic disease of the lung. The International Agency for Research on Cancer (IARC – Monograph 68) has classified exposure to respirable crystalline silica as a Group 1 carcinogen.</p>
<b>mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive:</b>	Not expected to be a reproductive hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics:</b>	Silica dust: Discomfort in the chest. Shortness of breath. Coughing
<b>Aspiration:</b>	No respiratory sensitizing effects known.

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### STOT- Single

**Exposure:** Not classified as causing organ effects from single exposure.

### STOT- Chronic

**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.

## Section 12 – Ecological Information

### 12.1 Toxicity

Not expected to be harmful to aquatic organisms. Discharging Crystalline silica (quartz) dust and fines into waters may increase total suspended particulate (TSP) levels that can be harmful to certain aquatic organisms.

### 12.2 Persistence and degrading

Not applicable.

### 12.3 Bio accumulative potential

Not applicable.

### 12.4 Mobility in soil

Not applicable.

### 12.5 other adverse effects

No other adverse environmental effects

## Section 13 – Disposal Considerations

### 13.1 Waste Treatment methods

**Waste disposal:** Do not allow fine particulate matter to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with fine particulates. Dispose of to approved council Landfill. Contact the manufactures/supplier for additional information (if required)

**Legislation:** Dispose of in accordance with the relevant legislation

## Section 14 – Transport Information

Not classified as a dangerous good by the criteria of the ADG code, IMDG or IATA

Transport type	Land transport (ADG)	Sea transport (IMDG/IMO)	Air transport (IATA/ICAO)
14.1 UN Number	None allocated	None allocated	None allocated
14.2 Proper shipping name	None allocated	None allocated	None allocated
14.3 Transport Hazard class	None allocated	None allocated	None allocated
14.4 Packing Group	None allocated	None allocated	None allocated

### 14.5 Environmental hazards:

No information provided

### 14.6 Special precautions for user:

No Hazchem code allocated for this product

## Section 15 – Regulatory Information

### 15.1 Safety, health and environment regulations/ legislation specific for the substance or mixture:

**Poisons Schedule:** A poison schedule number has not been allocated for this product using the criteria in the standard for the uniform scheduling of medicines and poisons (SUSMP).

**Classifications:** Safe work 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 Classification 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.

This material is classified as hazardous according to criteria of Safe Work Australia.

This material is not classified as a dangerous good under the criteria of the 7<sup>th</sup> Australian Dangerous Goods Code.

## Section 16 – Other Information

### Additional information:

### Personal protective guidelines:

The recommendation for personal protective equipment contained within this report is provided as a guide only. Attributing factors such as the method of application, working environment, quantity used, product concentration and controls being readily available.

### Health effects and exposure:

The adverse effects of exposure depend several factors; This may include effectiveness of control measures in place, protective equipment and the methods of application. The user will assess the risk and apply the appropriate controls and methods where appropriate.

### Abbreviations:

CAS#	Chemical abstract service number
GHS	Globally harmonised system
Mg/m <sup>3</sup>	milligrams per cubic metre
OEL	occupational exposure limit
pH	relates to hydrogen ion concentration using scale of 0 (highly acidic) to 14 (highly alkaline)
ppm	parts per million
STEL	short term exposure limit
SUSMP	standard for the Uniform Scheduling of medicines and poisons
SWA	safe work Australia
TLV	threshold limit value
TWA	time weighted average

### Revision History:

Revision	
3.0	Updated Oct 2020
2.0	Converted to GHS October 2019
1.0	Initial release February 2017

### Literature References:

- SafeWork Australia 'Hazardous Chemical Information System' (HCIS) online database.
- Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)] 3rd Edition (Updated for Amendments)
- National Transport Commission, *Australian Code for the Transport of Dangerous Goods by Road and Rail*, 7<sup>th</sup> Edition, Commonwealth of Australia 2007.

**[End of SDS]**

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