

MATERIAL SAFETY DATA SHEET

BUILDING PRODUCTS: RAW MATERIAL, CLAY, SHALE & SANDSTONE

These substances are classified as Hazardous according to criteria of Worksafe Australia.

IDENTIFICATION

Product Name:	Clay, Shale & Sandstone
Other Names:	Reef, Plastic, Fireclay
Manufacturer's Code:	Not Applicable
UN Number:	None Allocated
Dangerous Goods Class and Subsidiary Risk:	Not Dangerous Goods
Hazchem Code:	None Allocated
Poisons Schedule:	Not Scheduled
Use:	To manufacture Clay products, ie: Bricks, Pavers, Floor Tiles, Wall Tiles and Roof Tiles.

PHYSICAL DESCRIPTION / PROPERTIES

Appearance:	Soft Puggy Clay and Friable Brittle Soft Rock.
Melting Point:	Not Applicable
Vapour Pressure:	Negligible
Specific Gravity:	Variable
Flash Point:	Not Flammable
Flammability Limits:	Not Flammable
Solubility in Water:	Insoluble (water dispersible)
Other Properties:	Not Applicable

INGREDIENTS:

CHEMICAL NAME	CAS NUMBER	PROPORTION
Crystalline Silica (α Quartz)	14808-60-7	0.1 to 50%
Other ingredients determined not to be hazardous:		50% to 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS:

The physical form of the clay products supplied by The Brickworks Group of Companies pose little or no risk to human health. Risks to human health may arise from dust (which includes a hazardous component, crystalline silica) which is respirable.

ACUTE EFFECTS:

Swallowed:

May cause mild irritation due to the abrasive nature of the material.

Eyes:

May cause mild irritation due to the abrasive nature of the material.

Skin:

May cause mild irritation due to the abrasive nature of the material.

Inhaled:

If product is in an inhalable or respirable form, acute exposure may result in irritation to respiratory tract. If exposure is very large, then acute silicosis may occur. Acute silicosis is characterised by progressively laboured breathing.

CHRONIC EFFECTS:

Chronic inhalation of crystalline silica may result in serious adverse health effects, particularly if the crystalline silica is of respirable size (approximately < 7 µm aerodynamic diameter). Chronic exposure to crystalline silica in humans is associated with impairment of lung function. Reduced lung function may occur as a result of an increase in fibrotic tissue (silicosis), atrophy of gas exchange surfaces (emphysema) or airway obstruction (bronchiolitis).

Crystalline silica has been shown to induce lung cancer in laboratory animals and there is limited evidence that it may cause lung cancer in humans. The International Agency for Research on Cancer (IARC) has classified crystalline silica as a probable human carcinogen (2A).

FIRST AID:

Eyes:

If in eyes, wash with water for 15 minutes. If irritation persists, contact a doctor or **Poisons Information Centre – Telephone: 131126 (NATIONAL 24 HOUR)**.

Inhaled:

If discomfort or irritation occurs, remove to fresh air.

PRECAUTIONS FOR USE

Exposure Limits:

Worksafe Australia has endorsed an Exposure Standard, Time Weighted Average (TWA), of 0.1mg/m³ for Crystalline Silica. However, where a State or Local Authority prescribes a standard lower than 0.1 mg/m³, the lower standard applies.

Ingredient	CAS No.	TWA	TWA	STEL	STEL	Carc. Cat.	Notices
		(ppm)	(mg/m ³)	(ppm)	(mg/m ³)		
Silica - Crystalline:							
Cristobalite	14464-64-1	-	0.1	-	-	-	-
Quartz	14808-60-7	-	0.1	-	-	-	-
Tridymite	1317-95-9	-	0.1	-	-	-	-

TWA = Exposure standard - time-weighted average **STEL** = Exposure standard - short term exposure limit

ppm = Parts of vapour or gas per million parts of contaminated air by volume at 25°C and 1 atm

mg/m³ = Milligrams of substance per cubic metre of air. When entry is in this column only, the value is exact; when listed with a ppm value it is approximate. *Commonwealth of Australia. Chemical Gazette. No. C 6, Tuesday 4 June 1996.*

Engineering Controls:

Generating dusts from this product should be avoided. If dust generation is unavoidable, local exhaust ventilation, moisture suppression or good natural ventilation should be employed. Wear suitable protective equipment for the eyes, skin and respiratory system.

Personal Protection:

Inhalation:

As appropriate particulate (dust) respirator should be used where dust may be generated. Respiratory protection should comply with AS/NZS1716 (1994) Respiratory Devices.

Eyes:

Eye goggles should be worn as a general precaution if dust is likely to enter the eyes.

Flammability:

Not flammable.

SAFE HANDLING INFORMATION

Storage and Transport:

No special requirements.

Spills and Disposal:

Spills should be handled in a manner which avoids generating excessive dust.

OTHER INFORMATION:

CONTACT POINT:

Occupational Health and Safety Manager or Site Manager. For further information contact your nearest Austral Bricks or Bristle Roofing Office.

NSW

Horsley Park (Head Office)

738-780 Wallgrove Road,
Horsley Park NSW 2175

Telephone: (02) 9830 7700

Facsimile: (02) 9830 7770

Albion Park

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CBD Design Studio

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Coffs Harbour

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Coffs Harbour NSW 2450

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Port Macquarie

42 Jindalee Road,
Port Macquarie NSW 2444

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Punchbowl

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Punchbowl NSW 2196

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Facsimile: (02) 9915 9155

QLD

Rochedale (Head Office)

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Rochedale QLD 4123

Telephone: (07) 3347 2111

Facsimile: (07) 3343 2899

Cairns

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Edmonton QLD 4869

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Gold Coast

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Burleigh QLD 4220

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Toowoomba

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Toowoomba QLD 4350

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Townsville

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Garbutt QLD 4814

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SA

Golden Grove (Head Office)

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Golden Grove SA 5125

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Facsimile: (08) 8282 6360

Richmond

392 South Road,
Richmond SA 5033

Telephone: (08) 8152 0302

Facsimile: (08) 8443 2200

WA

Caversham (Head Office)

Harper Street,
Caversham WA 6055

Telephone: (08) 9261 9999

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Armadale

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Armadale WA 6012

Telephone: (08) 9399 0333

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Bellevue

Military Road
Bellevue WA 6056

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Bunbury

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Bunbury WA 6231

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Facsimile: (08) 9791 2517

Busselton

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Busselton WA 6280

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Cardup

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Cardup WA 6122

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Joondalup

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Joondalup WA 6027

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Facsimile: (08) 9300 2499

Malaga

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Malaga WA 6090

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Facsimile: (08) 9208 7900

O'Connor

Corner Stock & South Street,
O'Connor WA 6163
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Waterloo

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Waterloo WA 6228
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Facsimile: (08) 9726 3245

VIC

Wollert (Head Office)

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Wollert VIC 3750
Telephone: (03) 9303 4000
Facsimile: (03) 9308 1974

Deer Park

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Deer Park VIC 3023
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Facsimile: (03) 9361 8411

Geelong

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Grovedale VIC 3216
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Facsimile: (03) 5243 4220

Lynbrook

Corner Western Point Highway &
Northey Road,
Lynbrook VIC 3975
Telephone: (03) 9303 4708
Facsimile: (03) 9799 6910

Richmond

The Brick Studio
490 Swan Street,
Richmond VIC 3121
Telephone: (03) 9303 4740
Facsimile: (03) 9427 1592

Thomastown

140 High Street,
Thomastown VIC 3074
Telephone: (03) 9303 4077
Facsimile: (03) 9466 3792

TAS

North Tasmania

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South Tasmania

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