

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

NEW SOUTH WALES

(Austral Bricks)

Wallgrove Road,
Horsley Park. NSW 2175
Telephone: (02) 9830 7700
Facsimile: (02) 9831 2383

NEW SOUTH WALES

(Eureka Tiles)

**62 Belmore Road,
Punchbowl. NSW 2196**

Telephone: 1300 387 352
Facsimile: 1300 765 792

NEW SOUTH WALES

(Austral Bricks)

1 Kiama Street,
Bowral. NSW 2576
Telephone: (02) 4861 1333
Facsimile: (02) 4861 4156

NEW SOUTH WALES

(Bristile Roofing)

Unit 3, 23-27 Second Ave
Blacktown. NSW 2148
Telephone: (02) 9679 7911
Facsimile: (02) 9679 9596

QLD

QUEENSLAND (Austral Bricks)

103 Riverview Road,
Riverview. QLD 4303
Telephone: (07) 3816 2934
Facsimile: (07) 3816 0508

QUEENSLAND (Austral Bricks)

105 Gardner Road,
Rosedale. VIC 4123
Telephone: (07) 3347 2111
Facsimile: (07) 3343 2899

QUEENSLAND (Bristile Roofing)

164 Viking Drive
Wacol. QLD 4076
Telephone: (07) 3212 2444
Facsimile: (07) 3212 2499

WA

WESTERN AUSTRALIA

(Bristile Roofing/Austral Bricks)

Harper Street,
Caversham. WA 6055
Telephone: (08) 9261 9999
Facsimile: (08) 9261 9988

WESTERN AUSTRALIA

(Austral Bricks)

245 South Western Hwy,
Armadale. WA 6012
Telephone: (08) 9399 0333
Facsimile: (08) 9399 6509

WESTERN AUSTRALIA

(Austral Bricks)

Military Road
Bellevue. WA 6056
Telephone: (08) 9250 0515
Facsimile: (08) 9274 5092

WESTERN AUSTRALIA

(Austral Bricks)

Kiln Road,
Cardup. WA 6201
Telephone: (08) 9550 6565
Facsimile: (08) 9525 1850

WESTERN AUSTRALIA

(Austral Bricks)

10 Bonner Drive
Malaga. WA 6090
Telephone: (08) 9249 7267
Facsimile: (08) 9249 7231

WESTERN AUSTRALIA

(Austral Bricks)

Waterloo Road,
Waterloo. WA 6228
Telephone: (08) 9276 3000
Facsimile: (08) 9276 3245

VIC

VICTORIA (Head Office)

(Austral Bricks & Austral Masonry)

Craigieburn Road East,
Craigieburn. VIC 3064
Telephone: (03) 9303 4000
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41-55 Elliott Road
Dandenong. VIC 3175
Telephone: (03) 8710 8710
Facsimile: (03) 8710 8700

SA

SOUTH AUSTRALIA

(Austral Bricks)

Greenwith Road,
Golden Grove. SA 5125
Telephone: (08) 8251 1166
Facsimile: (08) 8251 4324

TAS

TASMANIA (Austral Bricks)

Cressy Road,
Longford. TAS 7301
Telephone: (03) 6391 1511
Facsimile: (03) 6391 2121