

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, Roof Tiles, Ball Clay and Fill Materials

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 Various Clay, Oxides, Quartz and other minerals

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 adverse health effects, particularly if the crystalline silica is of respirable size (approximately $< 7 \mu\text{m}$ 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		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 (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, Eureka Tiles or Bristle Roofing Office

COMPANY DETAILS

SOUTH AUSTRALIA

(Austral Bricks)

Greenwith Road
Golden Grove SA 5125

Telephone: (08) 8251 1166

Facsimile: (08) 8251 4324

WESTERN AUSTRALIA

(Austral Bricks)

Dardarup Road,
Waterloo. WA 6228

Telephone: (08) 9276 3000

Facsimile: (08) 9276 3245

NEW SOUTH WALES

(Eureka Tiles)

62 Belmore Road,
Punchbowl. NSW 2196

Telephone: 1300 387 352

Facsimile: 1300 765 792

WESTERN AUSTRALIA

(Bristle Roofing and Austral Bricks)

Harper Street,
Caversham. WA 6055

Telephone: (08) 9261 9999

Facsimile: (08) 9261 9988

TASMANIA

(Austral Bricks)

Cressy Road,
Longford. TAS 7301

Telephone: (03) 6391 1511

Facsimile: (03) 6391 2121

VICTORIA

(Eureka Tiles)

Cnr Charlesworth & Stawell Streets,
Ballarat. VIC 3350

Telephone: (03) 5332 3307

Facsimile: (03) 5332 3307

WESTERN AUSTRALIA

(Austral Bricks)

245 South Western Hwy,
Armadale. WA 6112

Telephone: (08) 9399 0333

Facsimile: (08) 9399 6509

VICTORIA

(Austral Bricks)

Stud Road,
Scoresby. VIC 3179

Telephone: (03) 9881 3333

Facsimile: (03) 9887 1307

QUEENSLAND

(Austral Bricks)

103 Riverview Road,
Riverview. QLD 4303

Telephone: (07) 3816 2934

Facsimile: (07) 3816 0508

WESTERN AUSTRALIA

(Austral Bricks)

Military Road
Bellevue. WA 6056

Telephone: (08) 9250 0515

Facsimile: (08) 9274 5092

VICTORIA

(Austral Bricks)

Craigieburn Road East,
Craigieburn. VIC 3064

Telephone: (03) 9303 4000

Facsimile: (03) 9303 2319

QUEENSLAND

(Austral Bricks)

105 Gardner Road,
Rosedale. VIC 4123

Telephone: (07) 3347 2111

Facsimile: (07) 3849 4028

WESTERN AUSTRALIA

(Austral Bricks)

Kiln Road,
Cardup. WA 6201

Telephone: (08) 9550 6565

Facsimile: (08) 9525 1850

NEW SOUTH WALES

(Austral Bricks)

1 Kiama Street,
Bowral. NSW 2576

Telephone: (02) 4861 1333

Facsimile: (02) 4861 4156

WESTERN AUSTRALIA

(Austral Bricks)

10 Bonner Drive
Malaga. WA 6090

Telephone: (08) 9249 7267

Facsimile: (08) 9249 7231

NEW SOUTH WALES

(Austral Bricks)

Wallgrove Road,
Horsley Park. NSW 2175

Telephone: (02) 9830 7700

Facsimile: (02) 9831 2383