SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1. Product Identifier
Product Name: Concrete Roof Tiles
Synonym(s): Roof Tiles

1.2. Uses and uses advised against
Use(s): Building products used in residential, civil and commercial building construction.

1.3. Details of the supplier of the product
Supplier Name: Bristile Roofing NSW
Address: Horsley Park (Head Office), 738-780 Wallgrove Road, Horsley Park, NSW, 2175, Australia
Telephone: (02) 9830 7888
Fax: (02) 9830 7889
Email: infoNSW@brisleroofing.com.au
Website: www.brisleroofing.com.au

1.4. Emergency telephone number(s)
Emergency: (02) 9830 7888

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
NOT CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS

2.2. Label elements
No signal word, pictograms, hazard or precautionary statements have been allocated.

2.3. Other hazards
The solid product as supplied is classified as non-hazardous under normal conditions and does not present an inhalation, ingestion, skin, or eye hazard. However, dust created when the product is cut, grinded and machined may contain crystalline silica some of which may be respirable (particles small enough to go into deep parts of the lung when breathed in).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances/Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUARTZ (CRYSTALLINE SILICA)</td>
<td>14808-60-7</td>
<td>238-878-4</td>
<td>50% to 75%</td>
</tr>
<tr>
<td>NON-HAZARDOUS INGREDIENTS</td>
<td>Not Available</td>
<td>Not Available</td>
<td>25% to 50%</td>
</tr>
</tbody>
</table>
4. **FIRST AID MEASURES**

4.1. **Description of first aid measures**

**Eye** (Dust exposure) Flush gently with running water, irrigating under eyelids. Seek medical attention if irritation develops.

**Inhalation** (Dust exposure) If inhaled remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** (Dust exposure) Gently flush affected areas with water. Seek medical attention if irritation develops.

**Ingestion** Due to product form and application, ingestion is considered unlikely.

**First aid facilities** No information provided.

4.2. **Most important symptoms and effects, both acute and delayed**
See Section 11 for more detailed information on health effects and symptoms.

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**
If spilt, collect and reuse where possible.

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
Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2. Conditions for safe storage, including any incompatibilities
Ensure material is adequately labelled and protected from physical damage.

7.3. Specific end use(s)
No information provided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Exposure standards

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Quartz (respirable dust) 14808-60-7</td>
<td>--</td>
<td>0.1</td>
</tr>
</tbody>
</table>

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.

PPE
Eye/face If cutting or sanding with potential for dust generation, wear dust-proof goggles.
Hands Wear leather or cotton gloves.
Body Not required under normal conditions of use.
Respiratory If cutting or sanding with potential for dust generation, wear a Class P1 (Particulate) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Appearance: COLOURED BRICKS
- Odour: ODOURLESS
- Flammability: NON FLAMMABLE
- Flash point: NOT RELEVANT
- Boiling point: NOT AVAILABLE
- Melting point: NOT AVAILABLE
- Evaporation rate: NOT AVAILABLE
Product Name: Concrete Roof Tiles

9.2. Other information
Density 1600 kg/m³ to 2300 kg/m³

10. STABILITY AND REACTIVITY

10.1. Reactivity
Carefully review all information provided in Section 10.

10.2. Chemical Stability
Stable under recommended conditions of storage.

10.3. Possibility of hazardous reactions
Polymerisation is not expected to occur.

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

10.5. Incompatible materials
No information provided.

10.6. Hazardous decomposition products
May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Health hazard: Low toxicity. Adverse health effects, usually associated with long term exposure to high crystalline silica dust levels, are not anticipated due to product form. This material may only present a hazard if cut, sanded or drilled with dust generation. Use safe work practices to avoid dust generation – inhalation. Chronic exposure to
dust may result in lung fibrosis (silicosis). Crystalline silica is classified as carcinogenic to humans (IARC Group 1).

**Eye**
Due to product form and nature of use, the potential for exposure is reduced. Product may only present a hazard if material is cut, drilled or sanded with dust generation, which may result in mechanical irritation.

**Inhalation**
Exposure considered unlikely. An inhalation hazard is not anticipated unless cut, drilled or sanded with dust generation, which may result in irritation of the nose and throat.

**Skin**
Mechanical irritant. Prolonged or repeated contact may result in mild irritation due to mechanical action.

**Ingestion**
Ingestion is considered unlikely due to product form.

**Toxicity data**
No LD$_{50}$ data available for this product.

12. **ECOLOGICAL INFORMATION**

12.1. **Toxicity**
No information provided.

12.2. **Persistence and degradability**
No information provided.

12.3. **Bioaccumulative potential**
No information provided.

12.4. **Mobility in soil**
No information provided.

12.5. **Other adverse effects**
The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

13. **DISPOSAL CONSIDERATIONS**

13.1. **Waste treatment methods**
Waste disposal
Reuse where possible. Dispose of in accordance with local regulations.
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**

<table>
<thead>
<tr>
<th></th>
<th>LAND TRANSPORT (ADG)</th>
<th>SEA TRANSPORT (IMDG/IMO)</th>
<th>AIR TRANSPORT (IATA/ICAO)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1. UN NUMBER</strong></td>
<td>None Allocated</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td><strong>14.2. PROPER SHIPPING NAME</strong></td>
<td>None Allocated</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td><strong>14.3. TRANSPORT HAZARD CLASS</strong></td>
<td>None Allocated</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
</tbody>
</table>
14.4. PACKING GROUP

| 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

None allocated.

Risk phrases

None allocated.

Safety phrases

None allocated.

Inventory listing(s)

AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed AICS, or are exempt.

16. OTHER INFORMATION

Additional information

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

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 effect from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert 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. European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide
Product Name: **Concrete Roof Tiles**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>LC₅₀</td>
<td>Lethal Concentration, 50% / Median Lethal Concentration</td>
</tr>
<tr>
<td>LD₅₀</td>
<td>Lethal Dose, 50% / Median Lethal Dose</td>
</tr>
<tr>
<td>mg/m³</td>
<td>Milligrams per Cubic Metre</td>
</tr>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limit</td>
</tr>
<tr>
<td>pH</td>
<td>Relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline)</td>
</tr>
<tr>
<td>ppm</td>
<td>Parts Per Million</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>Specific target organ toxicity (repeated exposure)</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>Specific target organ toxicity (single exposure)</td>
</tr>
<tr>
<td>SUSMP</td>
<td>Standard for the Uniform Scheduling of Medicines and Poisons</td>
</tr>
<tr>
<td>SWA</td>
<td>Safe Work Australia</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
</tbody>
</table>

**Report status**

This document has been compiled by RMT of behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet (‘SDS’).

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.
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O’Connor WA 6163
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Facsimile: (08) 9337 8971

**Waterloo**
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Waterloo WA 6228
Telephone: (08) 9726 3000
Facsimile: (08) 9726 3245

**VIC**

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Facsimile: (03) 9308 1974

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Facsimile: (03) 5243 4220

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Northey Road,
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**Richmond**
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490 Swan Street,
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**TAS**

**North Tasmania**
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Longford TAS 7301
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Glenorchy TAS 7010
Telephone: (03) 6212 9120
Facsimile: (03) 6212 9150

**Email Addresses:**
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