

## Econo Bond

Hazardous according to criteria of Worksafe Australia

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**River Sands Pty Ltd**  
**ACN 009 919 215**  
**ABN 41 009 919 215**  
683 Beenleigh Redland Bay Rd  
CARBROOK QLD 4129  
Tel: +61 7 3287 6444  
Fax: +61 7 3287 6445

**Emergency Advice All Hours:**  
Australia Wide: 131 126

**Product Name:** Econo Bond  
**Use:** Cement based adhesive

**UN Number:** None allocated  
**Proper Shipping Name:** None allocated  
**Dangerous Goods Class:** None allocated  
**Packing Group:** None allocated  
**Hazchem Code:** None allocated  
**Poison Schedule:** None allocated

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

| SUBSTANCE NAME  | Proportion | CAS Number |
|---|------------|------------|
| Silica Sand   | 65 to 75%  | 14808-60-7 |
| Portland Cement   | 25 to 35%  | 65997-15-1 |
| Non hazardous ingredients or below cut off concentrations | to 100%    | -          |

### 3. HAZARD IDENTIFICATION

**Hazardous according to the criteria of NOHSC. This product may contain crystalline silica.**

#### ACUTE HEALTH EFFECTS

- Swallowed:** May cause nausea, stomach cramps and constipation.  
May cause caustic burns
- Eye:** In dust form, may cause burning and corneal scarring.
- Skin:** May cause irritation, burns and tissue damage. When mixed with water, the caustic properties of the cement in the mix can dry the skin and cause alkali burns.
- Inhaled:** Will cause coughing and a dry throat.
- Chronic:** Over several years prolonged or repeated exposure to high dust concentrations may lead to lung disorders. In severe cases these may include cancer.  
Prolonged or repeated inhalation of fine dusts may lead to congestive diseases of the lung or in extreme cases (after years of exposure) to lung cancer.

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### 4. FIRST AID MEASURES

|                              |  |
|------------------------------|--|
| <b>Swallowed:</b>            | If swallowed, contact Doctor. <b>DO NOT induce vomiting.</b> Rinse mouth with water and give person water to drink.                      |
| <b>Eye:</b>                  | If in eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open and see a Doctor if irritation continues. |
| <b>Skin:</b>                 | If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.                                       |
| <b>Inhaled:</b>              | Move to fresh air. Monitor for respiratory distress. Seek medical attention if irritation occurs.  |
| <b>First Aid Facilities:</b> | Eye wash fountain shall be available.  |
| <b>Advice to Doctor:</b>     | Treat symptomatically.   |

### 5. FIRE-FIGHTING MEASURES

**Fire Fighting Precautions:** Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise skin exposure.

**Extinguishing Media:** Use appropriate fire extinguisher for surrounding environment

**Hazchem Code** None Allocated

**FLAMMABILITY:** Non flammable.

### 6. ACCIDENTAL RELEASE MEASURES

**EMERGENCY ACTION:** None available

**Spills:** Recover spilled material by shovelling or sweeping into containers or using mechanical sweepers, avoid generating dust. If dust is created use personal protective equipment. Prevent dry material coming into contact with water. Product is designed to set with contact with water allowing for wet material to be shovelled into containers before material hardens. If contamination of drains or watercourses has occurred, advise the relevant state Environmental Protection Agency and local authorities. Otherwise blockage of waterways may occur.

**Disposal:** May be disposed of as inert landfill in accordance with local authority regulations.

### 7. HANDLING AND STORAGE

**Handling:** Use only in well ventilated areas. Wear protective clothing to minimise skin contact. The use of P1 Masks, tight fitting goggles and barrier creams is recommended.

**Storage:** Store in a cool dry place

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits** No exposure standards have been established for this material by NOHSC. However, exposure standards for ingredients are stated below:

**Portland Cement** 10mg/m<sup>3</sup> TWA  
**Crystalline Silica** 0.1 mg/m<sup>3</sup> respirable dust TWA  
0.7 mg/m<sup>3</sup> STEL

**TWA** Time-Weighted Average airborne concentration over an eight hour working day, for a five-day working week over an entire working life.

**STEL** Short Term Exposure Limit – the average airborne concentration over a 15 minute period which should not be exceeded at any time during normal eight-hour workday.

According to current knowledge these concentrations should neither impair the health, nor cause undue discomfort to, nearly all workers. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to, as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Engineering Controls** Use well-ventilated area. In Local ventilation should be considered if used in poorly ventilated or very confined space.

#### PERSONAL PROTECTION

**Body Protection:** Suitable PVC or rubber apron, coveralls, safety shoes/boots. Dusty clothing should be laundered before reuse. Avoid creating dust when removing or laundering clothes.

**Hand Protection:** Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves – Selection, use and Maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include method of handling, engineering controls as determined by appropriate risk assessments. Advice should be sought from appropriate glove manufacturers in order to ensure gloves are correct for application.

**Eye Protection:** Safety glasses with side shields or goggles should be worn as described in AS/NZS 1337 – Eye Protectors for Industrial Applications. Final choice of appropriate eye/face protection will vary according to individual circumstances.

**Respiratory Protection:** Where dust is generated, and exposure levels do not exceed ten times the Workplace Exposure standards, a half face piece respirator fitted with a P1 filter complying to AS/NZS 1715 and As/NZS 1716 is recommended.  
Where exposure levels do exceed ten times the Workplace exposure standards, then a full face-piece respirator fitted with

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P2/P3 filter, or a powered air-supplied respirator fitted with P2 filter, should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716. Respiratory Protective devices, in order to make necessary changes for individual circumstances. Filter capacity and respiratory type depends on the type of particulate i.e. dust or fume and exposure levels. Final choice of appropriate respiratory protection will vary according to individual circumstances. This can include handling and engineering controls as determined by appropriate risk assessments.

### Hygiene Measures

Do not store or consume food, drink or tobacco in an area where they may become contaminated with this material. Wash hands thoroughly before eating, drinking, and smoking, applying cosmetics or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |  |
|-----------------------------|--|
| <b>Appearance:</b>          | Grey cement coloured free flowing powder         |
| <b>Boiling Point:</b>       | Not relevant                                     |
| <b>Vapour Pressure:</b>     | Not relevant                                     |
| <b>Bulk Density:</b>        | ~1300 kg/m <sup>3</sup>                          |
| <b>Flash Point:</b>         | Not relevant                                     |
| <b>Flammability Limits:</b> | Not relevant                                     |
| <b>Solubility in Water:</b> | Insoluble, but reacts slowly with water to cure. |

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>STABILITY:</b>                        | Stable under normal conditions of use.                                  |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> | Minor ingredients could produce oxides of carbon or nitrogen in a fire. |
| <b>HAZARDOUS POLYMERIZATION:</b>         | Will not occur.   |
| <b>INCOMPATIBILITIES:</b>                | None allocated.   |
| <b>CONDITIONS TO AVOID:</b>              | None allocated.   |

## 11. TOXICOLOGICAL INFORMATION

No toxicological information is available for this product, however toxicity data found for constituents are stated below:

Crystalline silica is classified as a Class 1 Human Carcinogen according to IARC (International Agency for Research on Cancer), however the NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION (NOHSC) has yet to classify crystalline silica as a human carcinogen.

Repeated exposure to respirable crystalline silica dust may lead to silicosis, or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill health have occurred.

Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma. Exposure to fine dust (respirable crystalline silica dust) contained in the products must be prevented to avoid risk of lung disease.

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### 12. ECOLOGICAL INFORMATION

No environmental impact information is available for this product.

Avoid contaminating waterways, drains or sewers.

When in contact with water cements will cause the pH to rise and give a sufficient increase may be toxic to aquatic life in these circumstances.

### 13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent

### 14. TRANSPORT INFORMATION

|                               |                |
|-------------------------------|----------------|
| <b>UN Number:</b>             | None allocated |
| <b>Proper Shipping Name:</b>  | None allocated |
| <b>Dangerous Goods Class:</b> | None allocated |
| <b>Packing Group:</b>         | None allocated |
| <b>Hazchem Code:</b>          | None allocated |

### 15. REGULATORY INFORMATION

**Poison Schedule:** Not scheduled

**Risk Phrases:** R36/37/38 Irritating to eyes, respiratory system and skin  
R49(2) May cause cancer by inhalation

**Safety Phrases:** S22 Do not breathe dust  
S36/37/39 wear suitable protective clothing, gloves and eye/face protection.  
S38 If insufficient ventilation , wear suitable respiratory equipment.

**Hazard Category:** Irritant

### 16. OTHER INFORMATION

**PRINCIPAL REFERENCES:**

Material Safety Data Sheet – River Sands Pty Ltd

Issue date: 31st January 2008

Issued by: Tess Flores – Technical Manager

Supersedes: All previous Material Safety Data Sheets Issued

The customer is advised to consult the product Technical Data Sheets for further information including advice on suitable equipment.

Information used in the compilation of this MSDS obtained from investigations conducted at outside laboratories.

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### 16. OTHER INFORMATION (continued)

**REASONS FOR UPDATE:**

Product Release

MSDS's are updated frequently. Please ensure that you have a current copy.

**Contact Point**

**Emergency Advice All Hours:**

Australia Wide: 131 126

**River Sands Pty Ltd**

Tel: +61 7 3287 6444

Fax: +61 7 3287 6445

Contact: Paul Moorfoot – General Manager

**Disclaimer**

This Material Safety Data Sheet should be used in conjunction with the Technical Data Sheet. It does not replace them. The information given is based on our knowledge of the health and safety data of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any purpose other than that for which it was intended. If clarification or further information is needed to enable appropriate risk assessment, the user should contact River Sands Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions sent to customers. No liability whatsoever can be accepted with regard to the handling, processing or use of the product concerned which, in all cases, shall be in accordance with the appropriate regulations and / or legislation.

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