



# COLLINS

COLLINS CONSTRUCTION MATERIALS PTY LIMITED

## MATERIAL SAFETY DATA SHEET

### Sandstone, Road Base and Fill

Hazardous ("Xn" Harmful, "Xi Irritant, "T" Possible Carcinogen by inhalation - Category 2)  
according to the *Approved Criteria for Classifying Hazardous Substances*  
[NOHSC:1008(2004)]

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### Section 1 - Identification of the Material and Supplier

**Product (Material) Name:** Road Base, Sandstone, Crushed Sandstone, Fill  
**Other Name:** 100CSS,75CSS,40CSS,20CSS,Compactable Fill  
**Supplier Name:** Collins Construction Materials Pty Limited  
**Supplier Address:** 17 Fitzpatrick Street, Revesby, NSW 2212  
**Supplier Telephone:** (02) 9774 1544  
**Supplier Fax:** (02) 9792 1532  
**Supplier Emergency Tel (24 hours):** 0413 605 663  
**Emergency Services Tel (24 hours):** 000

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## Section 2 - Hazards Identification

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**Hazard Classification:**      **HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.** Due to the small silica particles in this product it is classified as a hazardous substance according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008)2004)]

Sand Uses become more hazardous with users such as sand blasting, crushing and grinding.

**Risk Phases:**

- R20** Harmful by Inhalation (Applies to dust)
- R22** Harmful if Swallowed
- R42** May cause sensitisation by inhalation
- R43** May cause sensitisation by skin contact
- R48** Danger of serious damage to health by prolonged exposure through inhalation (applies to dust)
- R49** May cause cancer by inhalation

"Xn" Harmful

"Xi" Irritant

"T" Possible Carcinogen inhalation (Category 2).

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## Section 3 - Composition/Information on Ingredients

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**Common Names/Synonyms:**      Crushed Sandstone, fill

**CAS Number:**      Not applicable

**Origin:**      Naturally occurring extractive and extracted material.

**Recommended Use:**      To be used for general construction road works, fill under slabs, roads or within trenches as a compactable sub base, as a blended material with other product such as stabilisation. Depending on the source materials in the crystalline silica (quartz) within the sandstone, of any particular product can range from 0-100%.

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## Section 4 - First Aid Measures

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Facilities should be available where this product is used to carry out first aid procedures.

### Description of Necessary First Aid Measures

**Ingestion:** Swallowing this product may cause immediate or delayed abdominal discomfort and potentially increase the risk of gastro-intestinal infections.

**The patient should be given water to drink and medical attention should be sought if any abdominal symptoms occur. Vomiting should not be induced, but if vomiting occurs, the patient should be leant forward or placed on their side to maintain an open airway, seek medical attention.**

**Eye:** In the event that this material or the dust comes into contact with the eyes it may have an immediate or delayed effect resulting in redness, watering and/or infection.

**Eyes should be immediately and thoroughly flushed with water for as long as necessary to alleviate the problem (or for at least 15 minutes). Ensure complete irrigation of the eye by keeping eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Removal of contact lenses after an eye injury should only be conducted by skilled personnel. Professional medical assistance should be sought if symptoms persist.**

**Skin:** Skin contact with this product and/or their ducts may lead to immediate or delayed skin irritations and in susceptible people skin sensitisation, dermatitis and/or skin infection.

**The affected areas should be washed thoroughly with mild soap and lukewarm water as quickly as possible.**

**Inhalation:** Inhalation of dust from this product may have an immediate or delayed effect to irritate, inflame or sensitive the nose, throat and lungs and exacerbate pre-existing conditions such as asthma and bronchitis. The repeated inhalation of dust from these products may lead to asthma, bronchitis, cancer, pneumonia

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or other pneumonia-like illnesses. Children, pregnant women, the elderly, people with pre-existing conditions or the immuno-compromised may at a particular risk from these illnesses if exposed to this product.

**If an irritation occurs, the affected parties should be moved (or move themselves) away from the product or its dusts into a source of fresh air. The patient should be laid down, kept warm and be rested. Prostheses such as false teeth, which may block the airways should be removed where possible prior to initiating first aid procedures. Professional medical attention should be sought if symptoms persist.**

## Specific Medical Attention and Treatment

**First Aid Facilities:** Eye wash and normal washroom facilities. Conditions should be treated symptomatically or consult a Poisons Information Centre.

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## Section 5 - Fire Fighting Measures

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**Suitable Extinguishing Media:** Not relevant (Not flammable)

**Hazards from Combustion Products:** Not relevant (Not flammable)

**Precautions for Fire Fighters & Special Protective Equipment:** Not relevant (Not flammable)

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## Section 6 - Accidental Release Measures

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### Emergency Procedures

In the event of a spill or release of the product from a transport vehicle or storage area:

1. Advise the Roads & Maritime Services 132 701  
(if a spill occurs from a transport vehicle)
2. Advise the Department of Environment & Conservation (DEC) on the pollution line and complete any necessary reports as advised. 131 555



3. Advise the product supplier emergency contact 0413 801 154

## Methods and Materials for Containment and Clean Up Procedures

In the event of a spill or release of the product from a transport vehicle or storage area in order to contain and clean up:

- Secure the site by:
  - covering the material with a sheet/tarpaulin secured to the ground in order to protect against dust emissions and gravitational flows into waterways.
  - bunding the area and cover drains to protect against over ground run off in waterways, surrounding land and drainage systems.
- Clean up the spill immediately once the site is secured. Avoid generating dust. Wetting down before sweeping up dust may be a useful control measure.
- Collect the material (using a vacuum system if required to avoid making dust airborne or wetting down before collection may be a useful control measure), load, transport and store all the material released for use as planned or dispose of safely on a solid waste suitable landfill.
- Check the surrounding area to ensure all material has been captured. Collect all material if possible or seek Department of Environment & Conservation (DEC) advice if this has not been possible.

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## Section 7 - Handling and Storage

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When handling this material that workers stay away from equipment that is moving and/or processing material and avoid coming into contact with the product by wearing:

- A suitable respiratory protective device conforming with AS/NZS 1715:1994- Selection, use and maintenance of respiratory protective devices. A Class P1 Particulate Respirator is typically most appropriate in dusty conditions with suitable PPE.
- Suitable eye protection conforming with AS/NZS 1336: 1997 - Recommended practices for protection. Low impact goggles with indirect ventilation (HT or CT with C, D optional) are typically most appropriate.

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Additional handling procedures should include:

- Limit exposure to the product if dusty
- Wet down product to reduce dust
- Wash any areas of the body that the product may have come into contact after exposure.
- Launder protective work clothes prior to re-use.
- Check the atmosphere regularly against the relevant exposure standards (Section 8)
- Regularly vacuum enclosed areas where the product is used or install another a dust extraction system.

When handling this material ensure the environment is protected from releases by not moving the material during adverse weather conditions such as wind and precipitation, bunding the handling area and providing wind breaks.

### Conditions for Safe Storage

When storing this material:

- Protect stockpiles from wind and other adverse weather with a sheet/tarpaulin or wind break secured to the ground.
- Bund the storage area.

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## Section 8 - Exposure Control/Personal Protection

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### National Exposure Standards

No specific exposure standards have been allocated for Ferrous Alumina Silicate ( $\text{Fe}_3\text{AlSiO}_4$ ). However due to the silica dust in the product, concentration for monitoring exposure are provided by Table 1 in Section 6.16 of the *Approved Criteria for Classifying Hazardous Substances [HOHSC:1008(2004)]* and a number of standard are applicable as listed below:

- **Total Inhalable Dust**  
10mg/m<sup>3</sup> (National Occupational Health & Safety Commission 2012)
- **Total Respirable Dust**  
2mg/m<sup>3</sup> (American Conference of Governmental Occupational Hygienists, 1986)
- **Respirable Crystalline Silica**  
0.1mg/m<sup>3</sup> (National Occupational Health & Safety Commission, 2004).

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<b>Biological Limit Values:</b>	No Biological Limit Allocated
<b>Engineering Controls:</b>	Use only in well ventilated areas.
<b>Personal Protection Equipment:</b>	Breathing masks (respirators)P1 or P2, safety glasses with side shields, gloves, full length overalls, boots.

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## Section 9 - Physical and Chemical Properties

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<b>Appearance:</b>	May range from light grains to brown or dark rocks
<b>Odour:</b>	No odour
<b>pH:</b>	3-10
<b>Electrical Conductivity:</b>	Not relevant
<b>Vapour Pressure:</b>	Not relevant
<b>Vapour Density:</b>	Not relevant
<b>Boiling Point/Range:</b>	Not relevant
<b>Freezing/Melting Point:</b>	Not relevant
<b>Solubility:</b>	Not soluble
<b>Specific Gravity or Density:</b>	2.0 to 2.6 cubic tonnes per cubic metre (t/m <sup>3</sup> )
<b>Flashpoint:</b>	Not relevant
<b>Information for Flammable Materials:</b>	Not Flammable

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## Section 10 - Stability and Reactivity

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<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Dust generation
<b>Incompatible Materials:</b>	None
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Reactions:</b>	None

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## Section 11 - Toxicological Information

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### Acute Healthy Effects

- Ingestion:** Ingestion is unlikely through normal use. However, swallowing any amount of this product may cause immediate or delayed abdominal discomfort and potentially increase the risk of gastro-intestinal infections.
- Eye:** In the event that any dose of this material or the dust comes into contact with the eyes it may have an immediate or delayed irritating effect resulting in redness and watering or an infection.
- Skin:** Any level of skin contact with this product and/or their dusts may lead to immediate or delayed skin irritations and in susceptible people skin sensitisation, dermatitis or skin infection.
- Inhalation:** Inhalation of any amount of dust from this product may have an immediate or delayed effect to irritate, inflame or sensitise the nose, throat and lungs, and exacerbate pre-existing conditions such as asthma and bronchitis. Prolonged inhalation of dust can cause cancer or pneumoconiosis (or silicosis), a disease that causes scarring or hardening (nodular fibrotic changes) of lung tissue.

### Chronic Health Effects

The repeated inhalation of dust from these products may lead to respiratory irritation, inflammation or sensitisation and illnesses such as asthma, bronchitis, cancer, pneumonia or other pneumonia-like illnesses. Children, pregnant women, the elderly, people with pre-existing conditions or the immuno-compromised may be at a particular risk from these illnesses if exposed to this product. It is not recommended to repeatedly swallow this material or repeatedly allow it to come into contact with the eyes. All people who come into contact with this product should safeguard themselves from tetanus.

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## Section 12 - Ecological Information

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**Ecotoxicity:** Natural quarry products pose no ecology risk. They are non toxic to aquatic and terrestrial organisms and are not biodegradable.

**Persistence/  
Degradability:** Not harmful persistent, no harmful degrading.

**Mobility:** Only mobile in significant water and wind.

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## Section 13 - Disposal Considerations

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**Disposal Methods:** Solid waste suitable landfill

**Special Precautions for Landfill or  
Incineration:** Not relevant

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## Section 14 - Transport Information

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**UN Number:** None

**Proper Shipping Name:** None

**Class and Subsidiary Risk(s):** None

**Packing Group:** None

**Special Precautions for User:** Trucks to use a tarpaulin to cover the load.



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## Section 15 - Other Information

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**Date of Issue:** 8 Sept 2013

**Date of Revision:** 8 Sept 2018

**Specific of Query Contact:**

**Name:** Jason Lewis

**Position:** General Manager, Production Manager

**Query Telephone:** 0413 605 663

**Weighbridge:** (02) 4658 1666

**END OF MSDS**

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