

ACS Shotcrete XL

Hazardous according to the criteria set by NOHSC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

River Sands Pty Ltd
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Emergency Advice All Hours:
Australia Wide: 131 126

Product Name: ACS Shotcrete XL

Use: Cement based Shotcrete mix made for use in a wide range of civil engineering and mining applications

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	70 to 80%	14808-60-7
Cementitious component	20 to 30%	65997-15-1

3. HAZARD IDENTIFICATION

Hazardous according to criteria set by of Worksafe Australia. This product contains crystalline silica.

ACUTE HEALTH EFFECTS

Swallowed: Small amounts ingested incidental to normal handling will have little or no effect. Larger amounts ingested may cause stomach pains and discomfort.

Eye: Will cause moderate to severe irritation to the eye and must be promptly removed to prevent further damage. Rubbing the eye after exposure will cause severe irritation through mechanical abrasion.

Skin: May cause superficial burns to damp skin, especially if trapped against skin by clothing. Prolonged or repeated skin exposures may cause drying and cracking of the skin and possibly lead to dermatitis.

Inhaled: Will cause coughing and a dry throat. Over several years prolonged or repeated exposure to high dust concentrations may lead to lung disorders. In severe cases these may include cancer.

Chronic: 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.

4. FIRST AID MEASURES

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Swallowed: If swallowed, contact Doctor. **DO NOT induce vomiting** and give glass of water.
Eye: If in eyes, flush with water for at least 15 minutes, ensuring eyelids are held open. See a Doctor if irritation continues.
Skin: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.
Inhaled: Move to fresh air. Monitor for respiratory distress. Seek medical attention if irritation occurs.

First Aid Facilities: Eye wash fountain shall be available.
Advice to Doctor: 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

6. ACCIDENTAL RELEASE MEASURES

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

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:

High Alumina cement	10mg/m ³ TWA
Portland Cement	10mg/m ³ TWA
Crystalline Silica	0.1 mg/m ³ respirable dust TWA
	0.7 mg/m ³ 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.

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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.

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

Appearance: Grey cement coloured free flowing powder
Boiling Point: Not relevant

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Vapour Pressure: Not relevant
Bulk Density: ~1300 kg/m³
Flash Point: Not relevant
Flammability Limits: Not relevant
Solubility in Water: Negligible

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.
HAZARDOUS DECOMPOSITION PRODUCTS: None allocated.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: None allocated.
CONDITIONS TO AVOID: None allocated.

11. TOXICOLOGICAL INFORMATION

No toxicological information is available for this product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways, drains or sewers as material will harden there for possibility of block flow of water.

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. Suitable for disposal by approved waste disposal agent.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Poison Schedule: This material is not poisonous.

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Risk Statement: R38 Irritating to skin.
R41 Risk of serious damage to eyes.

Safety Statement: S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a Doctor or Poisons Information Centre.
S62 if swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Hazard Category: Irritant

16. OTHER INFORMATION

PRINCIPAL REFERENCES:

Material Safety Data Sheet – River Sands Pty Ltd
Issue date: 31/07/2007
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.

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 is 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.

End of MSDS