



Classified as hazardous according to criteria of
Worksafe Australia
CCS Densifier

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: CCS Densifier
Use: To increase resistance and reduce absorption of liquids on cementitious floors

UN Number: 1719
Proper Shipping Name: Caustic Alkali Liquid contains Potassium Hydroxide
Dangerous Goods Class: Corrosive
Packing Group: III
Hazchem Code: 2R
Poison Schedule: 5

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients Name	CAS	Proportion
Potassium hydroxide	1310-58-3	>0.5% X <2%

Balance of formulation consists of ingredients determined as non-hazardous or component is below potentially hazardous amounts.

3. HAZARD IDENTIFICATION

Hazardous substance, according to the criteria set by NOHSC Australia.

Classified as dangerous according to the criteria set by Australian Dangerous Goods Class

Classification: Corrosive (pH as supplied: 11.0- 12.5)

Risk Phrases: **R22** Harmful if swallowed
R34 Causes Burns

Safety Phrases: **S1/2** Keep locked up and 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
S36/37/39 Wear suitable protective clothing, gloves, and eye/ face protection
S45 In case of accident or if you feel unwell seek medical attention (show this label where possible)

4. FIRST AID MEASURES

Swallowed: If swallowed, contact Doctor or Emergency Advice All Hours Australia Wide on 131 126 immediately. **DO NOT induce vomiting** and give glass of water to rinse out mouth and wash any residue off skin.



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4. FIRST AID MEASURES (continued)

- Eye:** If in eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open and see a Doctor.
- 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, shower and normal washroom facilities.
- Advice to Doctor:** Treat symptomatically as with exposure to alkaline substances. If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

5. FIRE-FIGHTING MEASURES

Specific hazards: Non-flammable material under ADG code

Special protective precautions and equipment: Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable extinguishing media: Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: 2R

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Large spills: Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services and dilute with plenty of water.

7. HANDLING AND STORAGE

Handling Precautions: Wear protective goggles, face shield, rubber gloves and protective clothing to prevent skin and eye contamination. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

Precautions for Storage: Keep in cool, dry storage area. Keep containers closed when not in use. Only store material in original container, do not store with dangerous when wet substances (class 4.3), oxidising agents (class 5), cyanides (class 6), strong acids (class 8) or foodstuffs.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: None established for this product however exposure limits for;

Potassium Hydroxide TWA 2mg/m³ peak limit applies

Peak limitation notice: For some rapidly acting substances and irritants, the averaging of airborne concentration over an eight hour period is inappropriate. These substances may induce acute effects after relatively brief exposure to high concentrations and so the exposure standard for these substances represents a maximum or peak concentration to which workers may be exposed. See Chapter 6: Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment, published by Worksafe Australia.

Documentation notice American Conference of Governmental Industrial Hygienists (ACGIH), Documentation of Threshold Limit Values and Biological Exposure Indices, 6th Edition, ACGIH, Cincinnati, Ohio, 1991

Personal Protective Equipment:

Avoid contact with the skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure, should be selected from the following list:-

- (1) Eye protection
- (2) Neoprene, butyl rubber gloves
- (3) Leather boots

CONTAMINATION

If contamination occurs, change clothing taking care to avoid skin contact with the contaminated area, and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Observe good personal hygiene. Eye wash fountains and safety showers should be available for emergency use.

Engineering Controls: Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels as low as is reasonably practicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White watery liquid
Odour:	Slight odour
Melting Point:	Not applicable
Boiling Point:	100°C
Solubility in Water:	soluble
Specific Gravity (H₂O=1):	1.15 – 1.25 kg/l
Vapour Pressure:	Similar to water
Viscosity:	> 50 cps
Volatiles:	not established
pH as supplied:	11.0-12.5

10. STABILITY AND REACTIVITY

Stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Do not store in aluminium or white alloy containers, and keep away from acids



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Incompatible Materials: Not to be loaded or stored with dangerous when wet substances (class 4.3), oxidising agents (class 5), cyanides (class 6), strong acids (class 8), cationic detergents or foodstuffs..

Hazardous decomposition products: Upon combustion of product will result in Carbon Monoxide and Carbon Dioxide. With long-term contact with metals may result in the generation of hydrogen gas.

Hazardous reactions: Hazardous reactions may occur with dangerous when wet substances (class 4.3), oxidising agents (class 5), cyanides (class 6), strong acids (class 8) and cationic detergents.

11. TOXICOLOGICAL INFORMATION

Classification: Corrosive (pH as supplied: 12.0-14.0)

Eye Contact: Irritant, causing burns, pain, redness and tearing.

Skin Contact: Irritant, causing burns, pain and redness. Frequent or prolonged contact may cause dermatitis

Inhalation: At ambient temperatures, a low irritation hazard
If heated or sprayed in a confined space product may cause irritation to the respiratory tract causing coughing, sneezing, nasal discharge, headache, hoarseness and nose and throat pain.

Ingestion: May be harmful causing abdominal pain, nausea, vomiting, and gastrointestinal tract irritation.

Reproductive Effects: None known.

Does not contain chemicals implicated in adverse reproductive effects.

Other Information: None established

12. ECOLOGICAL INFORMATION

Information on Ecological Effects: Avoid contaminating waterways.

Ecotoxicity: low

Persistence and degradability: Product is not biodegradable

Mobility: Low, once reacted with calcium, precipitates

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Empty containers must be decontaminated. Dispose of material through a licensed waste contractor. Suitable for disposal by approved waste disposal agent.

14. TRANSPORT INFORMATION

UN Number: 1719

Proper Shipping Name: Caustic Alkali Liquid contains Potassium Hydroxide

Dangerous Goods Class: 8

Packing Group: III

Hazchem Code: 2R

Transport Information: Not to be loaded with dangerous when wet substances (class 4.3), oxidising agents (class 5), cyanides (class 6), strong acids (class 8), cationic detergents or foodstuffs.



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15. REGULATORY INFORMATION

Poison Schedule: 5
OHS: Considered a Hazard
Environmental: Not considered a Hazard

Classification: Corrosive (pH as supplied: 11.0- 12.5)

Risk Phrases: **R22** Harmful if swallowed
R34 Causes Burns

Safety Phrases: **S1/2** Keep locked up and 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
S36/37/39 Wear suitable protective clothing, gloves, and eye/ face protection
S45 In case of accident or if you feel unwell seek medical attention (show this label where possible)

16. OTHER INFORMATION

PRINCIPAL REFERENCES:

Material Safety Data Sheet – River Sands Pty Ltd

Issue date: 01/05/07

Issued by: Tess Flores – Technical Manager

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.

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.

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