



CONCRETE
COLOUR
SYSTEMS

Material Safety Data Sheet

CCS COLOUR HARDENER

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Issue Date: June 2013

Hazardous According to Criteria of Worksafe Australia

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CONCRETE COLOUR SYSTEMS

A Division of 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 Colour Hardener
Use: Pigmented cement based mixture for colouring concrete surfaces.
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
Cementitious Component	20 to 30%	65997-15-1
Silica Sand	65 to 75%	14808-60-7
Non-hazardous Component	Total 100%	----

3. HAZARD IDENTIFICATION

Classified as hazardous according to the criteria of Worksafe Australia, as product may contain crystalline silica

HEALTH EFFECTS:

SHORT TERM (ACUTE) EXPOSURE:

Swallowed: Alkaline corrosive to mouth and throat. May cause burning sensation and abdominal discomfort
Eyes: Irritating and corrosive to eyes. May cause chemical conjunctivitis and redness and watering of eyes with damage to cornea
Skin: It will dry the skin and may cause alkali burns and irritant contact dermatitis, especially as an ingredient in plastic (unhardened) wet concrete mortar and slurry. Due to trace amounts of hexavalent chrome (Cr6+), wet cement may cause chromium sensitisation and allergic contact dermatitis to some individuals.
Inhaled: Irritating to nose, throat and respiratory system causing coughing and sneezing

LONG TERM (CHRONIC) EXPOSURE:

Inhaled:

Repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs).
Studies have shown that smoking increases the risk of bronchitis, silicosis and lung cancer in persons exposed to crystalline silica. Small quantities of crystalline silica may be present in this product as a result of impurities in its ingredients.. Crystalline silica dust derived from the use of this product could be inadvertently inhaled during the dry cutting of concrete.



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Skin:

Repeated skin contact with cement in wet concrete, mortars and slurries has been associated with both irritant dermatitis and allergic (contact) dermatitis. The latter is due to the presence of traces of water-soluble hexavalent chromium in cement

Inhaled: Repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs).

Studies have shown that smoking increases the risk of bronchitis, silicosis and lung cancer in persons exposed to crystalline silica. Small quantities of crystalline silica may be present in this product as a result of impurities in its ingredients. Crystalline silica dust derived from the use of this product could be inadvertently inhaled during the dry cutting of concrete.

4. FIRST AID MEASURES

Swallowed: If swallowed, DO NOT induce vomiting. Wash mouth with water and seek medical attention.

Eye: Flush with plenty of water for at least 15 minutes, ensuring eyelids are held open. If irritation persists or recurs, seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin: Wash contacted area thoroughly with soap and plenty of water. Seek medical attention in event of irritation.

Inhaled: Move to fresh air.

First Aid Facilities: Eye wash fountain and availability of clean water

Advice to Doctor: Treat symptomatically

5. FIRE-FIGHTING MEASURES

This product is non-flammable and does not cause dust explosions.

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

Spills may be vacuumed or swept. Avoid generation of dust. Collect spilled material and seal in clean, dry, labeled containers for disposal.

7. HANDLING AND STORAGE

The product should be stored and transported in a manner to prevent ingress of water and emission of dust.

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 Crystalline Silica

10mg/m³ TWA
0.1 mg/m³ respirable dust TWA
0.7 mg/m³ STEL



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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 P2/P3 filter, or a powered air-supplied respirator fitted with P2 filter, should be used. Where exposure levels do exceed ten times the Workplace exposure standards, then a full face-piece respirator fitted with 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, smoking, applying cosmetics or using the toilet.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Coloured granular powder
Boiling Point:	some components begin to melt above 1200°C
Vapour Pressure:	Not applicable
Specific Gravity:	2.0 approximately
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Solubility in Water:	Insoluble
Percent Volatiles:	Not applicable
Viscosity:	Not applicable
pH:	>11

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Calcium Hydroxide form when water is added to cement based material; this is alkaline, abrasive and hygroscopic (moisture absorbing) material.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITIES: No hazardous incompatibilities are reported.

CONDITIONS TO AVOID: Avoid moisture

11. TOXICOLOGICAL INFORMATION

No toxicological information is available for this product

12. ECOLOGICAL INFORMATION

No environmental impact information is available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal:

This product should be disposed of in accordance with requirements of local authorities. Keep out of sewer and stormwater drains.

14. TRANSPORT INFORMATION

UN Number: None allocated

Proper Shipping Name: None allocated

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 6th Edition. Not classified as a Dangerous Good according to the UN, DOT(US), IACO(IATA) or IMO(IMDG).



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15. REGULATORY INFORMATION

POISON SCHEDULE: None allocated.

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

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.

Issue date: June 2013

Supersedes: All previous Material Safety Data Sheets Issued

REASONS FOR UPDATE:

Three (5) year Company revision of MSDS

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

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