



Material Safety Data Sheet
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CCS Armourthane
Part B

Hazardous according to criteria of Worksafe Australia
Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code)
for Transport by Road and Rail; DANGEROUS GOODS.

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 Armourthane Part B (Hardener)
Use: Part B of a clear Two-Pack, Poly-Urethane based, clear coating used to protect decorative masonry surfaces.

UN Number: 1263
Proper Shipping Name: Paint
Dangerous Goods Class: 3
Packing Group: III
Hazchem Code: 3[Y] E
Poison Schedule: 5

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Resin	30-60%	proprietary
Benzene, Dimethyl	30-60%	1330-20-7
1-methoxy-2-propanol acetate	10-30%	108-65-6

3. HAZARD IDENTIFICATION

Hazardous according to the criteria of Worksafe (Australia)
Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; **DANGEROUS GOODS.**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code)
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Classification Xn Harmful
F Flammable

Risk Phrases: R10 Flammable
R20/21/22 Harmful by inhalation, contact with skin and if swallowed
R36 Irritating to eyes
R65 Harmful: May cause lung damage if swallowed
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness or dizziness



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3. HAZARD IDENTIFICATION (continued)

Safety Phrases: **S2** Keep out of reach of children
S9 Keep in a well ventilated place
S16 Keep away from sources of ignition - No Smoking. Take precautionary measures against static discharges.
S23 Do not breathe in vapours
S24/25 Avoid contact with skin and eyes
S29 Do not empty into drains
S36/37/39 Wear suitable clothing, gloves eye and face protection
S45 In case of accident or if you feel unwell seek medical advice immediately (show product label whenever possible)
S62 If swallowed do not induce vomiting: seek medical advice immediately and show this container or label

4. FIRST AID MEASURES

Swallowed: If swallowed, seek medical advice urgently. **DO NOT induce vomiting.** Immediately wash out mouth with water and give plenty of water to drink. Lean patient forward to reduce risk of aspiration if vomiting occurs keep head below hips.
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.
If irritation persists see a Doctor.
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.
Due to the risks of lung damage by aspiration of this product, gastric lavage should only be undertaken after endotracheal intubation.
If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

5. FIRE-FIGHTING MEASURES

Specific hazards: Combustible material **Fire/Explosion Hazard**

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide or foam

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling fire exposed containers when using water spray; boil-over may occur when the product temperature reaches the boiling point of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling.



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5. FIRE-FIGHTING MEASURES (continued)

Flammability

Flammable liquid Avoid all sources of ignition, heat and naked flames. Vapours may travel a considerable distance to source of ignition and ignite.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION: Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas.

SPILL OR LEAK PROCEDURE: Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Take precautionary measures against static electricity. Water spray may reduce vapour; but it may not prevent ignition in closed spaces.

SMALL SPILLS: Take up with dry sand, dirt, vermiculite or other inert materials. DO NOT use sawdust. Use non-sparking tools or HEPA vacuum system. Place into labelled drum(s) for later disposal.

LARGE SPILLS: Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. **Consult an expert regarding disposal of this product.**

7. HANDLING AND STORAGE

Flammability

Flammable liquid, Vapour may form explosive mixtures with air. Avoid heat and all ignition sources. Use only in well ventilated areas. Flameproof equipment is necessary in any area where product is being used. Product transfer and storage equipment must be earthed. Prevent build-up of flammable vapours. Consult AS1940 for further information on safe storage and handling of flammable liquids. Handle in accordance with state or territory regulations for flammable liquids. Take precautionary measures against static electricity. Store in original packages as approved by manufacturer

Storage

Store in a cool place and out of direct sunlight.
Store away from sources of heat or ignition
Store away from oxidizing agents
Keep containers closed, when not using the product.
Store in original packages as approved by manufacturer

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards have been established for this product by Worksafe Australia. However, exposure standards for ingredients are stated below:

Chemical Name	TWA (mg/m³)	STEL (mg/m³)
Acrylic Resin	100	Not available
Aromatic hydrocarbon solvent	100	not available
1-methoxy-2-propanol acetate	50	100



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

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

Where mists or vapours are generated exhaust ventilation should be provided to maintain airborne concentration levels to a level as low as reasonably practicable.

Personal Protection 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. PVC gloves
3. PVC apron and sleeves, or full PVC covering
4. PVC or rubber boots

Where concentration of vapour or mist is expected to approach the exposure limit, the following additional equipment is recommended;

1. Short elevated exposures, e.g. spillage – goggles and correct respiratory protection should be worn.
NB. If vapour/mist concentrations exceed the exposure limit by more than 10 times, air supplied apparatus should be used.
2. For prolonged elevated exposures – full face air supplied or self contained breathing apparatus should be worn.

CONTAMINATION

If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Observe good personal hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid, homogeneous liquid with an acrylic odour.
Boiling Point: >120°C
Vapour Pressure: <2.5 @ 20°C
Specific Gravity: Approx 0.95 @ 25°C
Flash Point: >200°C
Solubility in Water: Negligible
Viscosity: Approx 2000 centipoise @ 25°C
Density: Not available
Percent Volatiles: <80 %



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10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Hazardous Decomposition: Emits oxides of carbon when heated to decomposition
Hazardous Polymerization: Will not occur.
Incompatible: Strong alkalis, acids, nitrates and oxidizing agents.
Conditions to avoid: Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION

Acute Data Not established for this product

Swallowed: Harmful to mouth, throat and stomach. There is some probability that this product could be aspirated into the lungs and hence, if vomiting occurs, this may lead to chemical pneumonitis which can be fatal.

Eye: May cause irritation to the eyes, with effects including tearing, pain, stinging and blurred vision.

Skin: Harmful by skin contact. Effects including redness, itchiness, drying and defatting.

Inhalation: Harmful by inhalation may cause lung damage, central nervous system depression, May cause irritation to the nose, throat and respiratory system with effects including Dizziness, headache staggering gait, nausea and if the concentration of vapours is high enough, and unconsciousness.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis.
Prolonged exposure may lead to kidney and liver damage. Permanent central nervous system and blood changes occur due to high solvent exposure over time.

Carcinogen: Product contains no known substances indicated to have carcinogenetic effects.

Reproductive Effects Unknown, does not contain chemicals implicated in adverse reproductive effects.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways, drains or sewers.

Not established for this product However;
It could be toxic to the biomass in a treatment plant and could be toxic to fish. Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public or environment occurs or is likely to occur.

Movement and Partitioning: The product will float on water

Degradation and Persistence: All solvents are readily biodegradable and oxidize by photo-chemical reactions with air. No specific data is available

Ecotoxicology: No specific Ecotoxicology data was found for either of the ingredients



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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

UN Number: 1263

Proper Shipping Name: Paint

Dangerous Goods Class: 3

Packing Group: III

Hazchem Code: 3[Y] E

Poison Schedule: 5

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15. REGULATORY INFORMATION

Classification Xn Harmful
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16. OTHER INFORMATION

PRINCIPAL REFERENCES:

Material Safety Data Sheet – River Sands Pty Ltd

Issue date: 26/March/2008

Approved by: Damien Wirth- Work Place Health and Safety Officer

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



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16. OTHER INFORMATION (continued)

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

REASONS FOR UPDATE:

1. 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 DOCUMENT