



Material Safety Data Sheet

CCS EPOXY REPAIR KIT

Part B

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Issue Date: 6/09/07

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: 1800 124 863

Australia Wide: 131 126

Product Name: CCS Epoxy Repair Kit Part B

Use: Repair of Concrete and masonry coating.

UN Number: 2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S

Dangerous Goods Class: 8

Packing Group: III

Hazchem Code: 3X

Poison Schedule: 5

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Benzyl Alcohol	100-51-6	30 – 60%
Isophorone diamine	2855-13-2	10 – 30%
m-Xylenediamine	1477-55-0	10 – 30%
Salicylic acid	130296-87-6	<10%

3. HAZARD IDENTIFICATION

Hazardous according to the criteria of Worksafe Australia

Classification: Harmful

Risk Phrases:	R20	Harmful by inhalation	
	R21	Harmful in contact with skin	
	R22	Harmful if swallowed	
	R34	Causes burns	
	R43	May Cause skin sensation	
	R51	Toxic to aquatic organisms	
	R53	May cause long term adverse effects in the aquatic environment	
	Safety Phrase:	S(2)	Keep out of reach of children
		S24	Avoid skin contact
		S26	In case of eye contact, rinse immediately with plenty of water and seek medical attention
		S28	After skin contact wash immediately with soap and water
S36/37/39		Wear suitable protective clothing, gloves and eye/face protection	
	S45	In case of accident or if you feel unwell, seek medical advise immediately	
	S61	Avoid release to the environment. Refer to MSDS	



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3. HAZARD IDENTIFICATION (cont.)

ACUTE HEALTH EFFECTS

Swallowed: Not a likely source of exposure, however, harmful if swallowed, will cause irritation and chemical burns to contacted tissues. Symptoms may include nausea, vomiting, abdominal pain and diarrhea.

Eye: Corrosive. Product vapour in low concentration can cause lacrimation, conjunctivitis and corneal edema when absorbed in to the tissue .of the eye from the atmosphere. Burns to the eye may cause blindness. Contact of undiluted product with the eyes causes severe irritation and pain and may cause burns, necrosis and permanent injuries.

Skin: Corrosive. Will cause severe irritation and chemical burns to the skin, necrosis and tissue damage. The product can also be absorbed through the skin resulting in nausea, headache and general discomfort.

Inhaled: Harmful if inhaled. Inhalation of vapours, aerosols and mist may cause severe damage to contacted tissues and produce scarring.

Chronic Product is a skin sensitizer. Prolonged or repeated contact with this material may result in allergic reactions/sensitization, adverse respiratory effects (such as cough, tightness of chest. Effects from inhalation may be delayed. Dryness of nasal passages and sore throat can be experienced when .material is inhaled or a long period of time.
Pre-existing conditions such as; asthma, chronic respiratory diseases (Bronchitis, emphysema), eye diseases, skin disorders and allergies can be aggravated by exposure.

4. FIRST AID MEASURES

Swallowed	DO NOT induce vomiting. Administer 3 or 4 glasses of milk or water. Seek medical advice.
Eye	If contact with the eye(s) occurs, holding eyelids apart, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.
Skin	Remove all contaminated clothing. Remove product and wash immediately with soap and water. Cover the affected area with sterile dressing or clean sheeting and transport for medical attention. Do not apply greases or ointments. Control shock if present. Clean contaminated clothing before re-using.
Inhaled	Move the victim to fresh air. Give assisted respiration (e.g. mouth to mouth) if breathing is difficult or has ceased. Supplemental oxygen may be indicated. If victim has stopped breathing begin artificial respiration, Seek medical attention. Prevent aspiration of vomit by turning patient's head to the side.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically or consult a Poisons Information Centre. Caution should be taken when performing gastric lavage due to the corrosive nature of this product.



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5. FIRE-FIGHTING MEASURES

Hazardous Decomposition or Byproducts	Burning produces obnoxious and toxic fumes. Gaseous combination of carbon, hydrogen, nitrogen and oxygen may occur at elevated temperatures.
Fire Fighting Precautions	Wear self-contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin exposure.
Extinguishing Media	Water fog (not a direct stream of water), foam, carbon dioxide and dry chemicals.
Hazchem Code	3X

6. ACCIDENTAL RELEASE MEASURES

Spills & Leaks	remove source of ignition. Increase ventilation. Wear sufficient respiratory protection and full protective clothing to minimise skin exposure. If possible, contain the spill. Place inert absorbent such as vermiculite, sand or dirt onto material. Use clean tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Mop up the remaining material and place into the same container.
Disposal	Disposal of this material should be undertaken by a registered chemical disposal company.

7. HANDLING AND STORAGE

Storage Precautions	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Store at room temperature in sealed container.
Storage Regulations	This material is a scheduled (S5) poison and must be stored, handled and maintained according to the appropriate Commonwealth regulations.
Handling	Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Ensure adequate ventilation. Keep away from sources of ignition – No smoking.
Proper Shipping Name	AMINES, LIQUID, CORROSIVE N.O.S.*

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards have been established for this product by Worksafe Australia

However; components

1477-55-0 m-Xylenediamine TWA (mg/m³) 0.1 Peak limitation

TWA = The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.



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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. Use personal protective equipment in a combination appropriate to the degree and nature of exposure should be selected from the following list:

CLOTHING: PVC apron and sleeves, or full PVC covering, safety shoes/boots.

GLOVES: PVC.

EYES: Safety glasses with side-shields, chemical goggles or face shield to protect eyes.

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

1. Short elevated exposures eg spillage – goggles and correct respiratory protection should be worn. NB If the 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.

RESPIRATORY PROTECTION: Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. When gases exceed the exposure standards then the use of a half-face respirator with organic vapour cartridge is recommended. For high concentration use an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus, complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant.

If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear pale yellow liquid
Melting Point:	Not applicable
Boiling Point:	Not available
Vapour Pressure:	Not available
Vapour Density:	Not available
Evaporation Rate:	Not available
Solubility in Water:	Partial
Specific Gravity:	1.05(H ₂ O=1)
Corrosiveness	Corrosive to soft metals.
pH Value	ca. 11
Stability	Stable under normal conditions of use.
Materials to Avoid	Strong oxidising agents. Strong bases and acids.



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10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides, carbon monoxide and unidentified organic compounds (some containing nitrogen) may be formed during thermal or oxidative decomposition or combustion.

HAZARDOUS POLYMERISATION: Will not occur.

INCOMPATIBILITIES: Avoid contact with strong oxidising agents and concentrated acids.

CONDITIONS TO AVOID: Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION

No data available

Skin Irritation: Irritant.

Eye Irritation: irritant, but not sufficient to trigger an EC label.

Skin Sensitisation: May cause skin sensitiser.

Mutagenicity: Not mutagenic

Carcinogenicity: Not a carcinogen.

Fertility Impairment: Does not impair fertility.

Development Toxicity: May cause slight foetotoxicity at doses, which are maternally toxic.

Human Effects: Prolonged/repeated contact may cause defatting of the skin, which can lead to dermatitis. Aspiration into lungs may cause chemical pneumonitis, which can be fatal.

12. ECOLOGICAL INFORMATION

R51 Toxic to aquatic organisms

R53 May cause long term adverse effects in the aquatic environment

Mobility: (1)

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.

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Product Name: CCS Epoxy Repair Kit Part B Hardener

UN Number: 2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S



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Dangerous Goods Class: 8

Packing Group: III

Hazchem Code: 3X

Poison Schedule: 5

Transport

This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Class 8 – Corrosive Substances are incompatible in a placard load with any of the following:

- Class 1, Explosives
 - Class 4.3, Dangerous When Wet Substances
 - Class 5.1, Oxidising Agents & Class 5.2 – Organic Peroxides
 - Class 6, Toxic Substances (where the toxic substances are cyanides and the corrosives are acids),
 - Class 7, Radioactive Substances
- and are incompatible with food and food packaging in any quantity.

15. REGULATORY INFORMATION

POISON SCHEDULE: 5

Classification: Harmful

Risk Phrases:

R20	Harmful by inhalation
R21	Harmful in contact with skin
R22	Harmful if swallowed
R34	Causes burns
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Safety Phrase:

S(2)	Keep out of reach of children
S24	Avoid skin contact
S26	In case of eye contact, rinse immediately with plenty of water and seek medical attention
S28	After skin contact wash immediately with soap and water
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S45	In case of accident or if you feel unwell, seek medical advise immediately
S61	Avoid release to the environment. Refer to MSDS

16. OTHER INFORMATION

CONTACT PERSON/POINT: National 24hr Emergency Response 1800 124 863

POISON'S SCHEDULE: 5

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.



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Supersedes: All previous Material Safety Data Sheets Issued

REASONS FOR UPDATE:

MSDS's are updated frequently. Please ensure that you have a current copy.

ontact Point

Emergency Advice All Hours:

Australia Wide: 131 126

River Sands Pty Ltd

Tel: +61 7 3287 6444

Fax: +61 7 3287 6445

Contact: Technical Manager – River Sand Pty Ltd

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 are 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