



Material Safety Data Sheet

CCS Ultra Epoxy WB Hardener

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Issue Date: 14/10/09

Hazardous according to the criteria set by NOHSC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CONCRETE COLOUR SYSTEMS

A Division of River Sands Pty Ltd

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CARBROOK QLD 4129

Tel: +61 7 3287 6444

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Emergency Advice All Hours:

Australia Wide: 131 126

Product Name:

Use: Catalyst for part A

UN Number: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S

Dangerous Goods Class: 9

Packing Group: III

Hazchem Code: 2X

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
MIXTURE OF AMINES AND POLYAMINES	30-60%	Proprietary
ETHYL ALCOHOL	10-30%	64-17-5
WATER	10-30%	7732-18-5
SURFACTANTS	<10%	Proprietary

3. HAZARD IDENTIFICATION

Hazardous according to the criteria set by NOHSC.

Non-Dangerous Goods according to the criteria of the ADG Code.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by AIR and MARINE only.

Hazard Category: Xi – Irritant

Risk Phrases

R36 Irritating to eyes

R38 Irritating to skin

R43 May cause sensitization by skin contact

R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

Safety Phrases

S24/25 Avoid contact with skin and eyes

S29 Do not empty into drains

S36 Wear suitable protective clothing

S37/38 Wear suitable gloves and eye/face protection



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4. FIRST AID MEASURES

Swallowed: If swallowed, **DO NOT induce vomiting**. Rinse mouth with water and give water to drink. Seek medical attention immediately.

Eye: Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open.

Skin: Remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Seek medical attention if redness, blistering or swelling occurs.

Inhaled: Remove victim to fresh air and provide oxygen if breathing is difficult. Seek medical attention.

First Aid Facilities: Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard: Combustible product.

EXTINGUISHING MEDIA: Water spray jet, foam, dry chemical or carbon dioxide. Do not use high volume water jet.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate personnel to safe area. If product is on fire wear full protective clothing and self-contained breathing apparatus. Cool fire exposed containers with water. Do not allow fire extinguishing media to enter drains and waterways.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product will burn. Carbon monoxide, nitrogen oxides and carbon dioxide may be released if incomplete combustion occurs.

6. ACCIDENTAL RELEASE MEASURES

SPILLS and DISPOSALS:

Extinguish or remove all sources of ignition and static sources, and stop leak if safe to do so. Prevent product from entering drains and waterways. Ventilate area and remove all personnel.

SMALL SPILLS:

Take up with a vacuum absorbent material and place in non-leaking labeled containers; seal tightly for disposal.

LARGE SPILLS:

Remove all sources of ignition. Evacuate the hazard area of unprotected personnel. Wear protective equipment as specified in the Personal Protection section of their MSDS. Dike and contain. Take up with a vacuum truck or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay sand or other suitable absorbent material; place in non-leaking labeled containers for proper disposal. Place used absorbent in suitable sealed containers for disposal.



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7. HANDLING AND STORAGE

Handling Precautions

Avoid breathing vapours and contact with product. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Ensure adequate ventilation. Suitable respiratory protective equipment should be used if occupational exposure limits are exceeded. Do not empty into drains.

Storage Precautions

Store in a cool, well ventilated place away from ignition sources, acids, foodstuffs and clothing. Keep containers closed tightly when not in use. Store in suitable, labeled containers and keep upright once opened.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Chemical Name	TWA (mg/m ³)	STEL (mg/m ³)
Ethyl Alcohol	1880	None allocated

Engineering Controls

Adequate ventilation should be provided to maintain airborne concentration levels to a level as low as reasonably practicable. Keep in a well ventilated area when not in use. Take precautionary measures against static discharge.

Personal Protection Equipment

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

CLOTHING: overalls, safety shoes/boots.

GLOVES: Butyl, EVAL-Laminate

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

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:	Yellowish liquid with amine like odour
Melting Point:	Not measured
Boiling Point:	Not measured
Vapour Pressure:	Not measured
Vapour Density:	Not measured
Evaporation Rate:	Not measured
Solubility in Water:	Soluble in water
Specific gravity:	0.9693



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10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during thermal or oxidative decomposition or combustion.

HAZARDOUS POLYMERISATION: Will not occur

INCOMPATIBILITIES: Avoid contact with acids.

CONDITIONS TO AVOID: High temperatures, warm storage, ignition sources and incompatibles

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Skin:	Has corrosive effect on skin.
Swallowed:	Oral LD ₅₀ (rat) is 1030 mg/kg. Corrosive effect on mucous membranes of respiratory tract
Inhalation:	No data available
Eye:	Corrosive effect on the eyes
Acute/Chronic Toxicity:	Does not contain 0.1% or more of any substance which is listed as a carcinogen by Worksafe Australia.

Information based on the properties of the resin. Product specific toxicological data has not been tested.

12. ECOLOGICAL INFORMATION

Ecotoxicology: the product is toxic to aquatic organisms and may cause long term harmful effects in aquatic environments. Acute LD₅₀ for Rainbow trout is 82 mg/l. The resin mixture is highly toxic for aquatic organisms. Acute LD₅₀ for Ide is 185 mg/l and for water flea is 42 mg/l.

Degradation: surfactant is not expected to be biodegradable according to the AS 4351 Part 2 test method. The COD is 1.94 g O₂/g. The BOD (5 day) is 0g O₂/g.

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. Normally suitable for disposal by approved waste disposal agent.



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14. TRANSPORT INFORMATION

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Use:

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Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S

Dangerous Goods Class: 9

Packing Group: III

Hazchem Code: 2X

Environmental Hazards: Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road/ADG, Rail/RID. Classed as a dangerous good by IMDG, IATA-DGR. Marine pollutant (IMDG).

15. REGULATORY INFORMATION

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16. OTHER INFORMATION

Sources for data: Suppliers MSDS
National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Ed
[NOHSC: 2011(2003)]
Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(1999)]

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:

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

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