



Designer Concrete CRS 3000 Cement Modifier Part B

Safety Data Sheet according to WHS and ADG requirements:

Issue Date: 24 February 2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier:

Product Name:	Designer Concrete CRS 3000 Cement Modifier Part B
Product Code:	Not Available
Other means of identification:	MC-1834R Emulsion
Synonym(s):	Designer Concrete CRS 3000 Cement Activator Part B

Relevant identified uses of the substance or mixture and uses advised against:

Cement Modifier Part B of Designer Concrete CRS 3000 Concrete Resurfacing Product System (coating) used in residential and commercial existing concrete flatwork applications; and, mixed in accordance with the product mix design specified by Designer Concrete Coatings Pty Ltd

Details of the supplier of the safety data sheet:

Registered Company Name:	Designer Concrete Coatings Pty Ltd
Address:	19 Liverpool Street, Ingleburn, NSW, 2565, Australia
Telephone:	+61 2 9829 3311
Fax:	+61 2 9829 3544
Website:	www.designerconcrete.com.au
Email:	sales@designerconcrete.com.au

Emergency telephone number:

Association / Organisation:	Not Available
Emergency telephone number:	1800-033-882 (24-hours) Quote MC-1834R Emulsion
Other emergency telephone numbers:	Australian Poisons Information Centre: 131 126 Transport Emergency Only: 000 Or, contact doctor at once.

SECTION 2: HAZARDS IDENTIFICATION

This material is not classified as hazardous according to health criteria of Safe Work Australia. However, caution must still be taken in handling and storage for health & safety.

Signal Word: **Not Applicable:** GHS Label Elements: **Not Applicable:**

Hazard Classification:

Flammable Liquids – Not Applicable
Aspiration Hazard – Not Applicable
Skin Corrosion / Irritation – Not Applicable
Serious eye damage / irritation – Not Applicable
Toxic to reproduction – Not Applicable
Specific Target Organ Toxicity (Single Exposure) – Not Applicable

Specific Target Organ Toxicity (Repeated Exposure) – Not Applicable
Poisons Schedule Aust – Not Scheduled

Hazard Statement(s)

H225	Not Applicable
H304	Not Applicable
H315	Not Applicable
H318	Not Applicable
H336	Not Applicable
H361	Not Applicable
H373	Not Applicable

Precautionary Statement(s) Prevention

P102	Keep out of reach of children
P103	Read label before use
P201	Obtain special instruction before use
P202	Do not handle until all safety precautions have been read and understood
P210	Not Applicable
P233	Keep container tightly closed
P240	Not Applicable
P241	Not Applicable
P242	Not Applicable
P243	Not Applicable
P260	Not Applicable
P264	Wash hands, face and all exposed skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective clothing, gloves, eye / face protection and suitable respirator as required

Precautionary Statement(s) Response

P101	If medical advice is needed, have product container or label on hand
P301+310	If SWALLOWED: Go to Section 11.
P331	Do NOT induce vomiting
P302+352	If ON SKIN: Wash with soap and water
P303+361+353	If ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P304+340	If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312	Call doctor / physician if you feel unwell
P305+351+338	If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P363	Wash contaminated clothing before re-use
P337+313	If eye irritation persists seek medical advice / attention
P370+378	Not relevant to this material.

Precautionary Statement(s) Storage

P405	Store locked-up
P403+235	Not Applicable

Precautionary Statement(s) Disposal

Poisons Schedule:	Not Scheduled
P501	Dispose of contents / container in accordance with local, regional, national and international regulations

DANGEROUS GOODS CLASSIFICATION:

NOT classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail; and, the New Zealand NZS5433: Transport of Dangerous Goods on Land”

CLASS: Not Applicable

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

The Product is a Mixture

Component:	CASRN	Concentration:
Octylphenoxyethoxyethanol	9036-19-5	>= 1.0 - < 2.5%

SECTION 4: FIRST AID MEASURES

Facilities should be available where this product is used to carry out first aid procedures.

Description of Necessary First Aid Measures:**Inhalation:**

If an irritation occurs, the affected parties should be moved (or move themselves) away from the product or its vapours into a source of fresh air. Professional medical attention should be sought if symptoms persist.

Skin Contact:

The affected areas should be washed thoroughly with mild soap and lukewarm water as quickly as possible.

Eye Contact:

Eyes should be immediately and thoroughly flushed with lukewarm water for as long as necessary to alleviate the problem (or for at least 15-minutes). Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Removal of contact lenses after an eye injury should only be conducted. Professional medical assistance should be sought if symptoms persist.

Ingestion:

The patient should be given water to drink and medical attention should be sought if any abdominal symptoms occur. Vomiting should not be induced, but if vomiting occurs the patient should be leant forward or placed on their left hand side to maintain an open airway.

PPE for First Aiders:

Wear overalls, safety glasses and impervious gloves. Refer to Section 7: Precautions for Safe Handling.

Medical Attention:

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES:

Extinguishing Media:**Suitable Extinguishing Equipment:**

Use extinguishing media appropriate for surrounding fire.

Specific Hazards:

No Data Available.

Fire Fighting Further Advice:

Material can spatter above 100°C. Dried product can burn

Special Protective Equipment and Precautions for Fire Fighters:

Wear breathing apparatus when fighting fire (as for other material present).

Hazchem Code: None Allocated.

SECTION 6: ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:

In the event of a spill or release of the product from transport vehicle or storage area in a sensitive environment including near water bodies:

1. Advise the applicable state-based road authority. Material can create slip hazard conditions
2. Advise the applicable state-based environment body
3. Advise the product manufacturer/supplier emergency contact: 1800-033-882. Quote MC-1834R Emulsion.

Methods and Materials for Containment and Clean-Up Procedures:

In the event of a spill or release of the product from a transport vehicle or storage area where containment barriers do not exist in order to contain and clean up:

Secure the site by:

- Covering the material with an inert material such as sand or earth in order to protect against material emissions and gravitational flows into waterways.
- Bunding the area and cover drains to protect against over-ground run-off into waterways, surrounding land and drainage systems.
- Clean up the spill immediately once the site is secured.
- Collect the material and load, transport and store all of the material released and dispose of safely in a landfill or licensed recovery facility.
- Check the surrounding area to ensure all material has been captured. Collect all material if possible or seek advice from state-based environment body.

Dangerous Goods – Initial Emergency Response Guide Not Applicable

SECTION 7: HANDLING AND STORAGE:

Precaution(s) for Safe Handling:

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapours or mist. Precautionary PPE is advised as follows:

- A suitable respiratory protective device conforming to AS/NZS 1715:2009 – Selection, use and maintenance of respiratory protective devices. A Class P1 Particulate Respirator is typically most appropriate.
- Suitable gloves conforming to AS/NZS 2161:2008 – Occupational Protective Gloves. Standard duty rubber or neoprene gloves are typically most appropriate.
- Full length protective trousers and shirts (or overalls).
- Suitable boots for the site.
- Suitable eye protection conforming to AS/NZS 1336: 1997 – Recommended practises for occupational eye protection. Low impact goggles with direct ventilation (HT or CT with C, D optional) are typically most appropriate

Additional Safe Handling Procedures Should Include:

- Limit exposure to the product
- Wash any areas of the body that the product may have come into contact after exposure.
- Regularly clean enclosed areas where the product is stored or dispensed or install a ventilation system.
- When handling this material ensure the environment is protected from releases.
- As with all vapour generating materials, ensure adequate ventilation.
- Shower and change after completion of product use for its intended purpose.
- Wash hands and face after handling and after completion of product use for its intended purpose.

Conditions for Safe Storage:

When storing this material, keep from freezing as product stability may be affected. Stir well before use.

- Store in closed containers away from direct heat sources or well ventilated areas to prevent evolution of monomer vapours.
- Storage Temperature: 1 - 49°C

This material is **NOT classified as a Dangerous Good** under the criteria of Australian Dangerous Goods Code.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION:

National Exposure Standards:

No specific exposure standards have been allocated. However due to possible evolution of monomer vapours if the material is heated during processing operations, exposure controls are provided in the ways listed below:

Control Parameters: Not Available.

	TWA ¹		STEL ²	
	ppm	mg/m3	ppm	mg/m3
	-	-	-	-

¹Time Weighted Average concentration

²Short-Term Exposure Limit.

Engineering Controls:

2mg/m³ (American Conference of Government Occupational Hygienists, 1986)

Biological Limit Values:

As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

Engineering Controls – Ventilation:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation with minimum capture velocity of 0.5 m/sec (100ft/min) at the point of vapour evolution. Refer to the current edition of “Industrial Ventilation: A Manual of Recommended Practice” published by the American Conference of Government Industrial Hygienists for information on the design, installation, use and maintenance of exhaust systems. If adequate ventilation is not available and the product is used in confined spaces wear an appropriate respirator.

Exposure Controls:**Personal Protection Equipment (PPE).****OVERALLS; SAFETY SHOES; SAFETY GLASSES; GLOVES; RESPIRATOR.****Eye / Face Protection:**

Refer to Section 7.

Skin Protection:

Refer to Section 7.

Respiratory Protection:

Refer to Section 7.

Selection and use of PPE should be in accordance with the recommendations in one or more of the relevant Australian / New Zealand Standards. Including:

AS/NZS 1336: Eye and Face Protection – Guidelines.

AS/NZS 1337: Personal Eye Protection – Eye and face protectors for occupational applications.

AS/NZS 1715: Selection, use and maintenance of respiratory protective equipment.

AS/NZS 2161: Occupational protective gloves.

AS/NZS 2210: Occupational protective footwear.

AS/NZS 4501: Occupational protective clothing set.

Hygiene Measures:

Keep away from foodstuffs, drink and animal foodstuffs & feeding troughs. When using the material, do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapours. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

Property	Unit of Measurement	Typical Value
Appearance	Not Applicable	White Milky Liquid
Odour	Not Applicable	Acrylic-like
Solubility	Not Applicable	Dilutable
Vapour Pressure @ 20°C Water	mmHg	17
Boiling Point (760 mmHg)	°C	100 - Water

Evaporation Rate (Butyl Acetate = 1)	-	< 1 Water
Melting Point / Range	°C	0 (Water)

Auto Ignition Temperature	°C	Not Applicable
Decomposition Point	°C	None Identified
Flash Point	°C	Non-Combustible
Relative Density	Water = 1	1.0 – 1.2
Flammability Limits	% (v/v)	Not Applicable
Relative Vapour Density (Air = 1)		< 1 Water
pH	-	9.3 – 10.2
Dynamic Viscosity	mPa.s	10 – 60
Percent Volatility	%	52 – 54 Water

No other data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No reactivity hazards are known for the material. Refer to Section 7.

Chemical Stability:

This material is stable when stored and used in accordance with this Safety Data Sheet and directions on the product label.

Conditions to Avoid:

None Identified

Incompatible Materials:

None Identified

Hazardous Decomposition Products:

Thermal decomposition may yield acrylic monomers

Hazardous Reactions:

None Identified. Product will not undergo polymerisation.

SECTION 11: TOXICOLOGICAL INFORMATION:

Acute Health Effects:

Ingestion:

Ingestion is unlikely through normal use. However, swallowing any amount of this product may cause immediate or delayed abdominal discomfort.

It is not recommended to repeatedly swallow this product. LD50, Rat, > 5,000 mg/kg

Eye Contact:

In the event that any dose of this material comes into contact with the eyes it may have an immediate or delayed irritating effect to certain sensitised individuals resulting in redness and watering or an infection.

It is not recommended to repeatedly allow this material to come into contact with the eyes.

Skin Contact:

Any level of skin contact with this product may lead to immediate or delayed skin irritations and in susceptible people with sensitive skin, dermatitis or skin infection.

It is not recommended for people susceptible to skin irritations to repeatedly allow this material to come into contact with the skin. LD50, Rabbit, > 5,000 mg/kg

Inhalation:

Product test data not available, however, inhalation of large amounts of vapour from this product may have an immediate or delayed effect to irritate or sensitise the nose, throat and lungs, and exacerbate pre-existing conditions such as asthma and bronchitis

It is not recommended for people to repeatedly inhale this material.

Sensitisation:

Not Available. Refer to component data.

Specific Target Organ Systemic Toxicity (Single Exposure):

Not Available. Refer to component data.

Specific Target Organ Systemic Toxicity (Repeated Exposure):

Not Available. Refer to component data.

Carcinogenicity:

Not Available. Refer to component data.

Teratogenicity:

Not Available: Refer to component Data.

Reproductive Toxicity:

Not Available. Refer to component data.

Mutagenicity:

Not Available. Refer to component data.

Aspiration Hazard:

Not Available. Refer to component data.

Additional Information:

No data available for this material. The information shown is based on profiles of compositionally similar materials.

COMPONENTS INFLUENCING TOXICOLOGY:**Octylphenoxypolyethoxyethanol.**

- **Acute Inhalation Toxicity:**
The LC50 has not been determined.
- **Sensitisation:**
Did not cause allergic skin reactions when tested in humans. For respiratory sensitisation, no relevant data found.
- **Specific Target Organ Systemic Toxicity (Single Exposure):**
Evaluation of available data suggests that this material is not an STOT-SE toxicant.
- **Specific Target Organ Systemic Toxicity (Repeated Exposure):**
In animals, effects have been reported on the following organ(s): Liver.
- **Carcinogenicity:**
No relevant data found.

- **Teratogenicity:**
Did not cause birth defects or any foetal effects in laboratory animals.
- **Reproductive Toxicity:**
No relevant data found.
- **Mutagenicity:**
In-vitro genetic toxicity studies were negative.
- **Aspiration Hazard:**
Based on physical properties, not likely to be an aspiration hazard.

Chronic Health Effects:

No chronic health effects expected from product use when handled in accordance with the safety advice recommended within this Safety Data Sheet.

SECTION 12: ECOLOGICAL INFORMATION:

Information based on available data:

General Information:

There is no data available for this product.

Ecotoxicity:

Octylphenoxypolyethoxyethanol.

Acute Aquatic Hazard (Fish):

Material is slightly toxic to aquatic organism's on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

Acute Toxicity to Aquatic Invertebrates:

LC50, Daphnia magna, 48-Hour, > 1,000 mg/l

Toxicity to Bacteria:

IC50, Bacteria, 16-Hour, Respiration rates, 1,000 – 2,400 mg/l

Persistence and Degradability:

Octylphenoxypolyethoxyethanol.

- **Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environment conditions.
- **Theoretical Oxygen Demand:** 1.9 – 1.95 mg/mg (Estimated)
- **Chemical Oxygen Demand:** 2.0 mg/mg (Estimated)

Bioaccumulation Potential:

Octylphenoxypolyethoxyethanol.

No information is available.

Mobility in Soil:

Octylphenoxypolyethoxyethanol.

No information is available.

Results of PBT and vPvB Assessment:**Octylphenoxypolyethoxyethanol.**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Other Adverse Effects:

This substance is not on the Montreal Protocol list of substances that deplete the Ozone layer.

SECTION 13: DISPOSAL CONSIDERATIONS:

Disposal Methods: Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

Special Precautions for Landfill or Incineration: Not Relevant.

SECTION 14: TRANSPORT INFORMATION:**Road & Rail Transport:**

Classified as NOT a Dangerous Goods by criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land.

UN No:	None Allocated:	Hazchem Code:	None Allocated:
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Proper Shipping Name:	None Allocated
DG Class:	None Allocated
Subsidiary Risk:	Not Applicable
Packaging Group:	Not Applicable
Hazchem Code:	None Allocated
Initial Emergency Response Guide:	Not Applicable

Precautionary Measures: No information available.

Other Special Storage or Transport Information: Transport in sealed container.

Marine Transport:

Classification for SEA transport (IMO-IMDG): Not regulated for transport. Consult IMO regulations before transporting ocean bulk.

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code.

UN No:	None Allocated
Proper Shipping Name:	None Allocated
DG Class:	Not Applicable
Packaging Group:	Not Applicable

Air Transport:

Classification for AIR transport (IATA/ICAO). Not regulated for transport.

UN No:	None Allocated
Proper Shipping Name:	None Allocated
DG Class:	Not Applicable
Packaging Group:	Not Applicable

The transport information contained herein is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regions or country variations in regulations. It is the responsibility of the transporting organisation to follow applicable laws, regulations and rules relating to the transportation of this material.

SECTION 15: REGULATORY INFORMATION:

Poisons Schedule: Not Scheduled.

Australian Inventory of Chemical Substances (AICS)

All ingredients in this preparation are listed in the Australian Inventory of Chemical Substances, (AICS).

SECTION 16: OTHER INFORMATION:

Revision Requirement: Information updates of all sections to comply with Code of Practice Safe Work Australia December 2011.

Abbreviations:

ADG: Australian Code for Transport of Dangerous Goods by Road and Rail.

CAS Number: Chemical Abstracts Number.

HMIS: Hazardous Materials Identification System.

TWA: Time - Weighted Average airborne concentration over an 8-hour working day, for 5-day working week over an entire working life.

STEL: Short-Terms Exposure Limit; the average airborne concentration over a 15-minute period which should NOT be exceeded at any time during a normal -8-hour working day.

Disclaimer:

This Safety Data Sheet (SDS) has been prepared to the best belief of the manufacturer as to its accuracy and reliability as at the date of issue. No warranty expressed or implied is made as to its full reliability or completeness but is considered the appropriate information required by the user in the context of how the product must be handled and used in the workplace and including in conjunction with other products or materials present. Since the manufacturer cannot anticipate or control the conditions under which this information may or will be used, it is the user's responsibility to determine the safety, risk and fitness-for-purpose of the product under the conditions and environment where the product is intended to be used; and, responsibility to ensure that the SDS issue date is current. This information given is a non-controlled document and Designer Concrete Coatings Pty Ltd shall not be liable for personal injury or property damage associated with use or misuse of the product.