

MATERIAL SAFETY DATA SHEET

PRODUCT NAME **ECOBRIK**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	ADVANCE CONCRETE TECHNOLOGIES
Address	Cnr Cook & Bannister Roads, Canning Vale, Western Australia, AUSTRALIA, 6155
Telephone	(08) 9334 4750
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Emergency	(08) 9334 4750
Email	sales@ecobrick.com.au
Synonym(s)	AAC BRICK
Use(s)	CONSTRUCTION
MSDS Date	03 July 2008

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
CALCIUM OXIDE	Ca-O	1305-78-8	<20%
SILICA, CRYSTALLINE - QUARTZ	Si-O2	14808-60-7	<2%
ALUMINIUM	Al	7429-90-5	<1%
DIETHYLENE GLYCOL	C4-H10-O3	111-46-6	<1%
SAND	Si-O2	87347-84-0	<80%
PORTLAND CEMENT	Not available	65997-15-1	<20%
GYPSUM	Ca-S-O4-2(H2-O)	13397-24-5	<2%
MAGNESIUM OXIDE	Mg-O	1309-48-4	<2%

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
Inhalation	Exposure is considered unlikely. Due to product form / nature of use, an inhalation hazard is not anticipated.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Due to product form and application, ingestion is considered unlikely.
Advice to Doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases if strongly heated.
Fire and Explosion	Non flammable. No fire or explosion hazard exists.
Extinguishing	Non flammable.

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6. ACCIDENTAL RELEASE MEASURES

Spillage Collect and reuse where possible.

7. STORAGE AND HANDLING

Storage Store in cool, dry, well ventilated area, removed from acids (eg hydrofluoric acid) and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	2,2'-Oxybis[ethanol]	NOHSC (AUS)	23.0	100.0	--	--
	Aluminium (metal dust)	NOHSC (AUS)	--	10.0	--	--
	Calcium oxide	NOHSC (AUS)	--	2.0	--	--
	Gypsum (Calcium sulphate)	NOHSC (AUS)	--	10.0	--	--
	Magnesium oxide (fume)	NOHSC (AUS)	--	10.0	--	--
	PORTLAND CEMENT	NOHSC (AUS)	--	10.0	--	--
	Silica, Crystalline Quartz	NOHSC (AUS)	--	0.1	--	--

Biological Limits No biological limit allocated.

Engineering Controls Do not inhale dust/powder. Use with adequate natural ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation or dampening with water is recommended. Maintain dust levels below the recommended exposure standard.

PPE Wear cotton or leather gloves. If cutting or sanding with potential for dust generation, wear dust-proof goggles and a Class P1 (Particulate) Respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	LIGHT GREY SOLID BLOCK	Solubility (water)	INSOLUBLE
Odour	ODOURLESS	Specific Gravity	NOT AVAILABLE
pH	ALKALINE	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE	Autoignition Temperature	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to Avoid Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with strong acids (eg. hydrofluoric acid).

Decomposition May evolve toxic gases if heated to decomposition.

Hazardous Polymerization is not expected to occur.

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Reactions

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low toxicity - slightly corrosive. Adverse health effects, usually associated with long term exposure to high crystalline silica dust levels are not anticipated, due to product form. This product may only present a hazard if bricks are cut, sanded or drilled with dust generation. Use safe work practices to avoid dust generation - inhalation. Chronic exposure to dust may cause lung fibrosis (silicosis). Crystalline quartz and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1). CEMENT CONTACT DERMATITIS: Individuals using wet cement, mortar, grout or concrete could be at risk of developing cement dermatitis. Symptoms of exposure include itchy, tender, swollen, hot, cracked or blistering skin with the potential for sensitisation. The dermatitis is due to the presence of soluble (hexavalent) chromium.
Eye	Due to product form and nature of use, an eye hazard is not anticipated. Product may only present a hazard if bricks are cut, drilled or sanded with dust generation, which may result in mechanical irritation.
Inhalation	Irritant - slightly corrosive. Exposure considered unlikely. An inhalation hazard is not anticipated unless bricks are cut, or drilled with dust generation which may result in severe mucous membrane irritation & bronchitis. Hexavalent chromium is reported to cause respiratory sensitisation, however due to the trace amount present, a hazard is not anticipated under normal conditions of use.
Skin	Low irritant. Prolonged or repeated contact may result in mild irritation due to mechanical action.
Ingestion	Ingestion is considered unlikely due to product form.
Toxicity Data	DIETHYLENE GLYCOL (111-46-6) LD50 (Ingestion): 3300 mg/kg (cat) LD50 (Skin): 11890 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

Environment	The main component/s of this product occur naturally in the earth's crust. It is not anticipated to cause any adverse effects to plants or animals.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	Reuse where possible. No special precautions are required for this product.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name	None Allocated				
UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

15. REGULATORY INFORMATION

Poison Schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information	ABBREVIATIONS: ADB - Air-Dry Basis. BEI - Biological Exposure Indice(s) CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds. CNS - Central Nervous System. EINECS - European INventory of Existing Commercial chemical Substances. IARC - International Agency for Research on Cancer. M - moles per litre, a unit of concentration. mg/m3 - Milligrams per cubic metre. NOS - Not Otherwise Specified. NTP - National Toxicology Program. OSHA - Occupational Safety and Health Administration. pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). ppm - Parts Per Million. RTECS - Registry of Toxic Effects of Chemical Substances.
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TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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End of Report