



## MATERIAL SAFETY DATA SHEET

Issue Date July, 2010  
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PRODUCT NAME **Aqua Blok Moisture Seal**

# Material Safety Data Sheet

## Aqua Blok Moisture Seal Part A

The information contained within this MSDS details health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user of this product should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Construction Technologies Australia Pty Ltd. Construction Technologies Australia Pty Ltd makes no representation as to the completeness and accuracy of the data contained in this data sheet. It is the user's obligation to evaluate and use this product safely, and to comply with all relevant Federal, State and Local Government laws and regulations. Construction Technologies Australia Pty Ltd shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendation or information contained herein, from normal use of the material, or any hazard inherent in the nature of the material.

### COMPANY DETAILS

Company	:	Construction Technologies Australia Pty Ltd
Address	:	P. O. Box 1135, Browns Plains, QLD 4118, Australia
Telephone numbers	:	(07) 3489 3000
Facsimile number	:	(07) 3489 3099

### HAZARDS IDENTIFICATION

**Note:** The main ingredient in this product is classed as a **MARINE POLLUTANT** only and so the Dangerous Goods classification that follows is for **MARINE transport only**. Not classed as a Dangerous Good for Storage or Road and Rail transport.

This product is classified as: Hazardous according to the criteria of ASCC Australia  
Not a Dangerous Good according to the Australian Dangerous Goods Code (ADG).

#### Risk Phases:

<b>R43</b>	May cause sensitisation by skin contact.
<b>R36/38</b>	Irritating to eyes and skin.
<b>R51/53</b>	Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.
<b>R68</b>	Possible risk or irreversible effects.

#### Safety Phases:

<b>S2</b>	Keep out of reach of children.
<b>S24/25</b>	Avoid contact with skin and eyes.
<b>S28</b>	After contact with skin, wash immediately with plenty of soap and water.
<b>S61</b>	Avoid release to the environment. Refer to special instructions/ Material Safety Data Sheets.
<b>S36/37/39</b>	Wear suitable protective clothing, gloves and eye/face protection.

<b>SUSDP Classification:</b>	S5
<b>ADG Classification:</b>	Class 9 (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)

<b>UN Number:</b>	3082
<b>Hazchem Code:</b>	2X



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**COMPOSITION: Information on Ingredients**

<b>Chemical Characterization:</b>	Coloured liquid	
<b>Chemical Ingredient</b>	<b><u>CAS No.</u></b>	<b><u>Proportion</u></b>
Epoxide Resin		20-40%
Other ingredients determined to be not hazardous		to 100%.

**FIRST AID MEASURES**

<b>General:</b>	Keep the victim calm
<b>Information:</b>	
<b>Ingestion:</b>	Oral toxicity is low. No hazards anticipated from ingestion incidental to industrial exposure. <b>Do not</b> induce vomiting. Seek immediate medical assistance.
<b>Eye Contact:</b>	Splashes may cause slight temporary eye irritation. Irrigate with copious amounts of water for at least 15 minutes, keeping eyelids open. Seek medical assistance.
<b>Skin Contact:</b>	Splashes may cause irritation. Repeated exposure may cause dermatitis in susceptible individuals due to the degreasing effect of surfactants present. Wash contact area immediately with soap and water. Remove contaminated clothing and launder before re-use.
<b>Inhalation:</b>	Possible irritation. If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.
<b>First Aid Facilities:</b>	Eye wash and normal washroom facilities
<b>Advice to Doctor:</b>	Contact Poisons Information Centre. In Australia phone <b>131126</b>

**FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Carbon dioxide, dry chemical and foam. Water fog or fine spray is the preferred medium for large fires.
<b>Hazards from Combustion Products:</b>	Once the water is driven off the material is combustible vapours may form flammable mixtures with air on heating at or above flash point. Will emit dense fumes when heated strongly and/or on thermal decomposition.
<b>Special Protective Equipment for Fire Fighters:</b>	Fire-fighters must wear full protective equipment, including self-contained breathing apparatus.
<b>Hazchem Code:</b>	2X



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**PRODUCT NAME**      **Aqua Blok Moisture Seal**

### ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures:</b>	Prevent fluid from escaping to drains and waterways. Contain leaking packaging in containment drum. Ensure drain valves are closed at all times. Clean up and report spills immediately.
<b>Methods for Clean-up:</b>	Eliminate all ignition sources. Increase ventilation if possible. Contain spill using sand, earth, vermiculite or other suitable absorbent. Alternatively, add calcium chloride or Alum to the spill to coagulate solids. Place contaminated absorbent in drums for disposal. Personnel involved in clean-up must use recommended protective equipment. Dispose of in accordance with local regulations.

### HANDLING AND STORAGE

<b>Safe Handling:</b>	Once the water is driven off the material is combustible. Eliminate all ignition sources.
<b>Safe Storage:</b>	Store in cool, dry, well-ventilated place remote from all sources of heat and ignition. Ensure ventilation is sufficient to prevent a build-up of vapour.

### EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards:</b>	No exposure standards have been established for this material by NOHSC.
<b>Biological Limit:</b>	No biological limit allocated
<b>Engineering Controls:</b>	Natural ventilation should be sufficient under normal conditions
<b>Personal Protective Equipment (PPE):</b>	Use water impervious gloves (Viton), safety glasses or chemical goggles, safety boots and long sleeved overalls. Wash hands before eating, drinking, smoking and going to the toilet. Ensure protective equipment is decontaminated before re-use.

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Pale Grey, viscous liquid
<b>Odour</b>	Mild odour
<b>Boiling Point</b>	No specific data. Expected to decompose before boiling.
<b>Vapour Pressure</b>	No data
<b>Vapour Density</b>	No data
<b>Evaporation Rate</b>	No data
<b>Solubility in water</b>	Soluble
<b>Solubility(aromatic solvent)</b>	Insoluble
<b>Specific Gravity</b>	1.3
<b>Viscosity, 25°C</b>	
<b>Low Shear</b>	20-30 Pa.s
<b>Flash Point</b>	>100°C
<b>Flammability</b>	Product is non-flammable. However, may combust after a prolonged period above 100°C and the water has evaporated.



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<b>Flammable Limits – Lower</b>	Not applicable
<b>Flammable Limits-Upper</b>	Not applicable

**STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable under normal conditions of use. Keep containers closed when not in use.
<b>Conditions to Avoid:</b>	The material is combustible. Avoid heat, sparks, flames and other ignition sources. Ensure ventilation is sufficient to prevent a build-up of vapour.
<b>Incompatible Materials:</b>	Acids, bases, oxidising agents, amines and polymerisation initiators.
<b>Hazardous Decomposition Products:</b>	Upon fire decomposition, carbon dioxide, and if combustion is incomplete carbon monoxide and smoke. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, distance judgement, and unconsciousness followed by coma and death.
<b>Hazardous Polymerisation:</b>	This product may undergo polymerisation in a mass of more than 500G and in the presence of an aliphatic amine. polymerisation is often accompanied by the liberation of heat, and may lead to dangerous or explosive situation. If the product is seen to be heating up, treat as a fire incident.

**TOXICOLOGICAL INFORMATION**

<b>Toxicology Information:</b>	No toxicity data is available for this product.
<b><u>Classification of Hazardous Ingredients.</u></b>	
	<b>Ingredient Risk Phases</b>
<b>Bisphenol A - (epichlorhydrin), Reacted Product:</b>	Conc>= 5%: Xi; R36/R38; R43 LD50 (Oral), Rat >5000mg/kg LD50 (Dermal), Rabbit 20,000mg/kg
<b>Skin:</b>	Except for skin sensitivity, repeated exposure is not expected to cause any adverse skin effects.
<b>General:</b>	Not classified as carcinogenic by ASCC, IRAC or NTP. No evidence of development, reproductive or genetic toxicity.

**ECOLOGICAL INFORMATION**

Specific data for this product is not available, the following information is based on **tests with BIS phenol A + epichlorohydrin reacted product** the main ingredient in this product.

<b>Ecotoxicity:</b>	Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.
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	Insufficient data to be sure of status.
	LC50 fathead minnow (96hr):3.1mg/L EC50 daphnia magna (48hr immobilisation); 1.4-1.7mg/L IC 50 bacteria (18hr, growth inhibition) >42.6mg/L Invertebrate toxicity value ChV Daphnia magna (21 day):0.55mg/L
<b>Persistence &amp; Degradability:</b>	Bio concentration potential is moderate (BCF 100-3000 or log Pow 3-5). Based on OECD guidelines, material cannot be considered to be readily biodegradable (12% biodegradation in 28 days, OECD test 302B). However, this does not mean that the Material will not degrade under environmental conditions.
<b>Mobility:</b>	Potential for mobility in soil is low (Koc 500-2000) Henry's law constant (H): <math>6.94 \times 10^{-9}</math> atm*m <sup>3</sup> /mole Estimated at 25°C. Partition coefficient, soil organic carbon/water estimated (Koc) 1800-4400
<b>Bioaccumulative Potential:</b>	Bioconcentration potential is moderate ( BCF 100-3000 or Log Pow 3-5)

### DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	Dispose of in accordance with Local, State and Federal regulations. In some areas certain wastes must be tracked. The hierarchy of controls that the user should always investigate: reduce, re-use and recycle and only if all else fails should disposal be considered i.e. controlled incineration or landfill.
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### TRANSPORT

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<b>UN Number:</b>	3082
<b>ADG Classification:</b>	Class 9 – ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>Hazchem Code:</b>	2X

### REGULATORY INFORMATION

<b>Hazardous according to the criteria of NOHSC.</b>	
<b>Poisons schedule:</b>	S5
<b>Labelling:</b>	Xi – Irritant
<b>R-Phase(s):</b>	R43 May Cause sensitisation by skin contact R36/38 Irritating to eyes and skin



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<b>S-Phase(s):</b>	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.
	S28	After contact with skin, wash immediately with soap and water
	S61	Avoid release to the environment. Refer to special Instructions/ Safety Data Sheets
	S24/25	Avoid contact with skin and eyes
	S37/39	Wear suitable gloves and eye/face protection

### OTHER INFORMATION

<b>Reason for Issue:</b>	Upgrade to 16-point MSDS format.
<b>Acronyms:</b>	
<b>ASCC</b>	Australian Safety and Compensation Council
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>IARC</b>	International Agency for Research on Cancer
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>NTP</b>	National Toxicology Program (USA)
<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs & Poisons
<b>UN Number</b>	United Nations Number

### CONTACT POINT

CTA Customer Support : (07) 3489 3000 or info@ctaust.com.au

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Australia Poisons Information Centre : 13 11 26

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Police & Fire Brigade: : 000