

MATERIAL SAFETY DATA SHEET

CHEMCOTE AQUA 3000 PART A



1. IDENTIFICATION

Product Name:	CHEMCOTE AQUA 3000 PART A
Other Names:	Not applicable
Recommended Use:	Resin component of a two-pack water based epoxy sealer and waterproofing membrane. Applied by brush and roller.
Supplier:	Newkem Australia Pty. Ltd
ABN:	43 000 549 548
Street Address:	1 Cumberland Avenue, South Nowra NSW 2541
Telephone:	(02) 4423 0044
Fax:	(02) 4421 4392
Email	sales@newkem.com.au
Emergency Phone:	Mon-Fri 8:30am – 5:00pm 02 4423 0044
After Hours:	0411 430 484

2. 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 SWA
Not a Dangerous Good according to the ADG Code.

Risk Phases:

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

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Safety Phases:

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

SUSDP Classification:	S5
ADG Classification:	Class 9 (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)
UN Number:	3082
Hazchem Code:	2X

3. COMPOSITION: Information on Ingredients

Chemical Characterization:	Coloured liquid
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Chemical Ingredient	<u>CAS No.</u>	<u>Proportion</u>
Epoxide Resin		20-40%

Other ingredients determined to be not hazardous to 100%.

4. FIRST AID MEASURES

General:	Keep the victim calm
Information:	
Ingestion:	Oral toxicity is low. No hazards anticipated from ingestion incidental to industrial exposure. Do not induce vomiting. Seek immediate medical assistance.
Eye Contact:	Splashes may cause slight temporary eye irritation. Irrigate with copious amounts of water for at least 15 minutes, keeping eyelids open. Seek medical assistance.

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Skin Contact: 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.

Inhalation: Possible irritation. If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

First Aid Facilities: Eye wash and normal washroom facilities

Advice to Doctor: Contact Poisons Information Centre. In Australia phone 131126

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, dry chemical and foam. Water fog or fine spray is the preferred medium for large fires

Hazards from Combustion Products: 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.

Special Protective Equipment for Fire Fighters: Fire-fighters must wear full protective equipment, including self-contained breathing apparatus.

Hazchem Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Ensure drain valves are closed at all times. Clean up and report spills immediately.

Methods for Clean-up: 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.

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7. HANDLING AND STORAGE

Safe Handling: Once the water is driven off the material is combustible. Eliminate all ignition sources.

Safe Storage: 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: No exposure standards have been established for this material by SWA.

Biological Limit Engineering Controls: No biological limit allocated. Natural ventilation should be sufficient under normal conditions.

Personal Protective Equipment (PPE): 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale blue, viscous liquid
Odour	Mild odour
Boiling Point	No specific data. Expected to decompose before boiling.
Vapour Pressure	No data
Vapour Density	No data
Evaporation Rate	No data
Solubility in water	Soluble
Solubility (aromatic solvent)	Insoluble
Specific Gravity	1.3
Viscosity, 25°C	
Low Shear	20-30 Pa.s
Flash Point	>100°C
Flammability	Product is non-flammable. However, may combust after a prolonged period above 100°C and the water has evaporated.
Flammable Limits – Lower	Not applicable
Flammable Limits-Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of use. Keep containers closed when not in use.
Conditions to Avoid:	The material is combustible. Avoid heat, sparks, flames and other ignition sources. Ensure ventilation is sufficient is to prevent a build-up of vapour.
Incompatible Materials:	Acids, bases, oxidising agents, amines and polymerisation initiators.

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Hazardous Decomposition Products: Upon fire decomposition, carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, distance judgement, and unconsciousness followed by coma and death.

Hazardous Polymerisation: 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.

11. TOXICOLOGICAL INFORMATION

Toxicology Information: No toxicity data is available for this product.

Classification of Hazardous Ingredients.

	Ingredient	Risk Phases
Bisphenol A - (epichlorhydrin), Reacted Product:	Conc >= 5%: Xi; R36/R38; R43 LD ₅₀ (Oral), Rat >5000mg/kg LD ₅₀ (Dermal), Rabbit 20,000mg/kg	
Skin:	Except for skin sensitivity, repeated exposure is not expected to cause any adverse skin effects.	
General:	Not classified as carcinogenic by ASCC, IRAC or NTP. No evidence of development, reproductive or genetic toxicity.	

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12. 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.

Ecotoxicity:	Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. Insufficient data to be sure of status.
	LC ₅₀ fathead minnow (96hr):3.1mg/L EC ₅₀ 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
Persistence & Degradability:	Bio concentration potential is moderate (BCF 100-3000 or logPow 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.
Mobility:	Potential for mobility in soil is low (Koc 500-2000) Henry's law constant (H): <6.94x10 ⁻⁹ atm*m ³ /mole Estimated at 25°C. Partition coefficient, soil organic carbon/water estimated (Koc) 1800-4400
Bioaccumulative Potential:	Bioconcentration potential is moderate (BCF 100-3000 or Log Pow 3-5)

13. DISPOSAL CONSIDERATIONS

Waste Disposal:	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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14. TRANSPORT

Note: The main ingredient in the 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.

UN Number: 3082

ADG Classification: Class 9 – ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazchem Code: 2X

15. REGULATORY INFORMATION

Hazardous according to the criteria of SWA.

Poisons schedule: S5

Labelling: Xi – Irritant

R-Phase(s):

R43	May Cause sensitisation by skin contact
R36/38	Irritating to eyes and skin
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

S-Phase(s):

S28	After contact with skin, wash immediately with of 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

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16. OTHER INFORMATION

Reason for Issue: 5 year update.

Acronyms:

ASCC	Australian Safety and Compensation Council
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
ADG	Australain Dangerous Goods
SWA	Safe Work Australia
NOHSC	National Occupational Health and Safety Commission
NTP	National Toxicology Program (USA)
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number