

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	BLUEWATER POOL ALGICIDE AND WINTERISER
Recommended Use:	Biocide. Sanitising solutions containing this product may be used on hard non-porous food contact surfaces such as equipment and utensils without a following potable water rinse under these conditions: (1) Such surfaces are thoroughly drained and any collection of liquid removed therefrom before contact with food products is made. (2) The sanitising solutions are used in accordance with label directions.
Supplier:	Chempro Group Limited – T/A: Bluewater Poolcare
Street Address:	28 Bowden Road Mount Wellington Auckland New Zealand
Telephone Number:	+64 9 914 8599
Facsimile:	+64 9 309 9264
Emergency Telephone:	N Z 0800 243 622 or International +64 3 353 0199 (ALL HOURS)

2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:	Subclass 6.1 Category D - Substances which are acutely toxic. Subclass 8.2 Category B - Substances that are corrosive to dermal tissue. Subclass 8.3 Category A - Substances that are corrosive to ocular tissue.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Components / CAS Number	Proportion	Risk Phrases
Benzyl alkyl dimethyl ammonium chloride 8001-54-5	30 - 60%	R22, R34, R41
Water 7732-18-5	30 - 60%	-

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

Inhalation:	Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin Contact:	If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor. Seek immediate medical assistance. For skin burns, cover with a clean, dry dressing until medical help is available.
Eye Contact:	Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Ingestion: Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. If vomiting occurs give further water. Seek immediate medical assistance.

Medical attention and special treatment: Treat symptomatically. Can cause corneal burns. Probable mucosal damage may contraindicate use of gastric lavage. Single dose of activated charcoal is the recommended gastrointestinal decontamination procedure - Adult 50-100g, Child 1-2 g/kg.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Non-combustible material.

Precautions for fire fighters and special protective equipment:

Decomposes on heating emitting toxic fumes, including those of oxides of nitrogen , oxides of carbon and hydrogen chloride . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

Suitable Extinguishing Media:

Not combustible, however, if material is involved in a fire use: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up:

Wear protective equipment to prevent skin and eye contact and breathing in vapours. Slippery when spilt. Avoid accidents, clean up immediately. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children.

Conditions for safe storage:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).

Engineering controls:

Use in well ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Minimum recommended requirements: OVERALLS, RUBBER BOOTS, CHEMICAL GOGGLES, FACE SHIELD, SAFETY SHOES, GLOVES (Long), APRON.

Wear overalls, chemical goggles, face shield, elbow-length impervious gloves, splash apron and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. If risk of inhalation exists, wear suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Colourless to Pale yellow
Odour:	Slight Almond
Solubility:	Soluble in water .
Specific Gravity:	0.98
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	Not applicable
Flammability Limits (%):	Not applicable
Autoignition Temperature (°C):	Not applicable
Boiling Point/Range (°C):	100
pH:	8.0

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid:	Avoid contact with foodstuffs.
Incompatible materials:	Incompatible with strong oxidising agents , and strong reducing agents .
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Hydrogen chloride.
Hazardous reactions:	None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Eye contact:	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
Skin contact:	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
Inhalation:	Breathing in mists or aerosols may produce respiratory irritation.
Long Term Effects:	No information available for the product.
Toxicological Data:	No LD50 data available for the product. For the constituent Benzylalkyldimethyl ammonium chloride : Oral LD50 (rat): 680-1050 mg/kg Dermal LD50 (rabbit): 3418 mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.

UN No: 1903
Class-primary 8 Corrosive
Packing Group: II
Proper Shipping Name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ALKYLDIMETHYLBENZYL AMMONIUM CHLORIDE)
Hazchem Code: 2X

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1903
Class-primary: 8 Corrosive
Packing Group: II
Proper Shipping Name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ALKYLDIMETHYLBENZYL AMMONIUM CHLORIDE)

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 1903
Class-primary: 8 Corrosive
Packing Group: II
Proper Shipping Name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ALKYLDIMETHYLBENZYL AMMONIUM CHLORIDE)

15. REGULATORY INFORMATION

Classification: Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses: Subclass 6.1 Category D - Substances which are acutely toxic.
Subclass 8.2 Category B - Substances that are corrosive to dermal tissue.
Subclass 8.3 Category A - Substances that are corrosive to ocular tissue.

HSNO Approval Number: HSR006501 – “Benzalkonium chloride, >33% in a

16. OTHER INFORMATION

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Chempro Logistics Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Chempro Logistics representative or Chempro Logistics Limited at the contact details on page 1.

Chempro Logistics Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.