

SAFETY DATA SHEET

Product Name: Benzalkonium Chloride 500 g/L

Print/View Date: 5/06/2025

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1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	Benzalkonium Chloride 500 g/L
Recommended uses:	Disinfectant
Restrictions on Use/Supply:	The substance must not be applied onto or into water.
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz
Website:	www.kiwicare.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

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2. HAZARDS IDENTIFICATION

GHS Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
Acute Tox. 4 (Oral)	Not applicable for the UN RTDG Model Regulation		Warning	H302	P264 P270	P101 P301+P312 P330	No storage statements	P501
Acute Tox. 4 (Dermal)	Not applicable for the UN RTDG Model Regulation		Warning	H312	P280	P302+P352 P312 P322 P362	No storage statements	P501
Skin Corr. 1B			Danger	H314	P260 P264 P280	P301+P330+P331 P303+P361+P353 P304+P340 P305+P351+P338 P310 P321 P363	P405	P501
Eye Dam. 1	Not applicable for the UN RTDG Model Regulation		Danger	H318	P280	P305+P351+P338 P310	No storage statements	P501
Aquatic Acute 1			Warning	H400	P273	P391	No storage statements	P501

Signal word: DANGER

Dangerous Goods: Dangerous Goods (Class 8)

Packaging Group: II

Hazardous Substance (GHS) Codes: Acute Toxicity (Oral) Cat. 4

Acute Toxicity (Dermal) Cat. 4

Skin Corrosion Cat. 1B

Eye Damage Cat. 1

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Aquatic Acute Cat. 1

Toxic to terrestrial vertebrates.



Hazard Statement:

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe vapours.

P264 Wash hands and exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves and eye protection/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

P312: Call a POISON CENTER or doctor if you feel unwell.

P321: Specific treatment refer to first aid section on the label.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

P405: Store locked up.

P501: Rinse container and dispose to landfill or recycling where allowed. Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. Do NOT burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Pale yellow to colourless liquid

Ingredients

Ingredients	CAS #	Content %
Benzalkonium chloride	8001-54-5	50
Non specified non-hazardous ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible).

Ingestion: Rinse mouth and drink 1-2 glasses of water or milk. Do NOT induce vomiting. Immediately call a doctor or the National Poisons Centre on 0800 764 766 and have product label at hand.

Eye Contact: Causes serious eye damage. Rinse opened eye for several minutes under running water. Remove contact

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lenses, if present and easy to do. Continue rinsing. Immediately call a doctor or the National Poisons Centre on 0800 764 766 and have product label at hand.

Skin Contact:

Causes severe skin burns. Immediately remove all contaminated clothing and rinse skin with water/shower. If skin burns or irritation occurs, immediately call a doctor or the National Poisons Centre on 0800 764 766 and have product label at hand.

Inhalation:

Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a doctor or the National Poisons Centre on 0800 764 766 and have product label at hand.

Advice for Medical Doctors:

Treat symptomatically

5. FIRE FIGHTING MEASURES

HAZCHEM code:

2X

Specific Hazards:

None. Minimise the use of water to prevent environmental contamination.

Suitable Extinguishing Media:

Appropriate fire extinguishers are Water, CO₂, Powder, or Alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions.

Fire Fighting Advice:

Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

Hazardous Products of Combustion:

Carbon monoxide (CO), nitrogen oxides (NO_x), hydrogen chloride (HCl), and ammonia (NH₃)

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:

Prevent leakage or spillage if safe to do so.

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Minor Spills (Up to 20 kg):

Minimise spread. Contain spill and collect using sawdust, soil, sand, or other absorbent materials. Do not allow product or washings to enter the waterways or sewer.

Collect contaminated absorbent in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

Major Spills (more than 20 kg):

Minimise spread. Contain spill and collect using sawdust, soil, sand, or other absorbent materials. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority.

Collect contaminated absorbent in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhaling vapours. When handling product in bulk, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Clean equipment after use. Do not contaminate drains, sewers or waterways.

Conditions for safe Storage including incompatibilities:

Keep out of the reach of children. Store locked up, in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children and animals. Do not allow product to get wet in storage.

Minimum shelf life: 2 years.

Protection against fire and explosion:

Keep away from heat sources although the product has no flammability. The product is not explosive. Keep away from oxidizing agents.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure Standards' below (Workplace Exposure Standards and Biological Exposure April 2022, Edition 13)
Engineering Controls:	No special requirements when used as recommended.
Hand protection:	Handle with chemical resistant gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good practices. Wash and dry hands.
Eye protection:	Wear eye protection or face shield.
Body protection:	Skin protection not ordinarily required beyond standard issue work clothes.
Respiratory Protection:	No special requirement when used as recommended.
General safety and hygiene measures:	Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Minimise contact with the skin, eyes and clothing.
Environmental Exposure Controls:	Minimise release to the environment. For bulk storage, an environmental assessment must be made to ensure compliance with local environmental legislation.

Exposure Standards:

Substance	Cas #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
None allocated					

Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Water	77A	The substance must not be applied onto or into water.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow to colourless liquid.
Odour:	Chlorine odour
Odour Threshold:	No data
pH Value:	Not applicable
Melting/freezing point:	No data
Boiling point (range):	No data
Flash Point:	No data
Flammability:	Not applicable
Explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	980-1000 g/l
Solubility:	Soluble
Partition coefficient:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under normal conditions of use. Not explosive or oxidising.
Incompatibility or conditions to be avoided:	Avoid excessive heating. Avoid strong oxidising agents.
Corrosive Properties:	Not corrosive to metals.

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Thermal Decomposition: Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Class: Acute Toxicity (Oral) Cat. 4
Acute Toxicity (Dermal) Cat. 4
Skin Corrosion Cat. 1B
Eye Damage Cat. 1
Aquatic Acute Cat. 1
Toxic to terrestrial vertebrates.

Acute Toxicity: Benzalkonium chloride:
Acute oral LD₅₀ = 240 mg/kg (rat).
Acute dermal LD₅₀ = 930 mg/kg (rat).

Aspiration hazard: May cause irritation on inhalation of mist, gas, or vapour

Skin corrosion/irritation: Causes serious skin burns

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: Skin sensitiser at concentrations greater than 1 g/L

Germ cell mutagenicity: No data available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific organ toxicity – single exposure: Benzalkonium chloride is a human skin and severe eye irritant. It is a suspected respiratory toxicant, immunotoxicant, gastrointestinal toxicant and neurotoxicant. Concentrated solutions are toxic to humans, causing corrosion/irritation to the skin and mucosa, and death if taken internally in sufficient volumes.

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Specific organ toxicity – repeated exposure: No data available.

Narcotic effects: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOTOXICITY INFORMATION

Ecological information of substance: Very toxic to aquatic life. Do not contaminate waterways, sewers, or drains when using product or packaging.

Benzalkonium chloride:

Rainbow trout, LC50 (96 hr) = 0.064 mg/L

Water Flea, EC50 (48 hr) = 0.0059 mg/L

Bioaccumulation: BCF <1. Not likely to bioaccumulate

Soil Toxicity: No soil toxicity.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation: Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.

Container Disposal: Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations.

Do NOT reuse containers. Do NOT burn.

Methods of disposal to avoid Do not empty down stormwater system

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number: 1903

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Dangerous Goods Class:	Class 8
Hazchem Code:	2X
Packaging Group:	II
Proper Shipping Name:	Not applicable or consult list of UN numbers
Segregation:	DISINFECTANT, LIQUID CORROSIVE, N.O.S. (Contains Benzalkonium Chloride)

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR000822
GHS Classifications:	Acute Toxicity (Oral) Cat. 4 Acute Toxicity (Dermal) Cat. 4 Skin Corrosion Cat. 1B Eye Damage Cat. 1 Aquatic Acute Cat. 1 Toxic to terrestrial vertebrates.
HSNO Controls:	Refer to HSR000822
ACVM Approval Code:	Not applicable
Additional Controls:	None

16. OTHER INFORMATION

SDS date of preparation: 16 / 07 / 2025

SDS date of revision: 16 / 07 / 2030

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier of the starting material.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

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Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR:	European agreement concerning the international carriage of Dangerous goods by Road
CLP:	Classification Labelling and Packaging
EC:	European Commission
EU:	European Union
GHS:	Global Harmonized System
H Phrase:	Hazard Phrase
HSNO:	Hazardous Substances and New Organisms (1996) Act
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organisation
IMDG:	International Maritime Dangerous Goods
P Phrase:	Precautionary Phrase
RID:	Regulations concerning the International carriage of Dangerous good by rail
STEL:	Short-Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average

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