

Infosafe No™ 1CHG8      Issue Date : March 2021      RE-ISSUED by CHEMSUPP

Product Name **BENZALKONIUM CHLORIDE Solution**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** BENZALKONIUM CHLORIDE Solution

**Company Name** CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

**Address** 38 - 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440-2000

**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**E-mail Address** www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use** Fungicide, surface antiseptic, cationic detergent and laboratory reagent.

**Other Names**

<u>Name</u>	<u>Product Code</u>
BENZALKONIUM CHLORIDE 10% Solution	BL010
BENZALKONIUM CHLORIDE 50% Solution TG	BT064
Alkyl dimethyl benzyl ammonium chloride	

**Other Information**

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Hazardous to the Aquatic Environment - Acute Hazard: Category 1  
Corrosive to Metals: Category 1  
Skin Corrosion/Irritation: Category 1A  
Acute Toxicity - Oral: Category 4

**Signal Word (s)** DANGER

**Hazard Statement (s)** H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.

**Pictogram (s)** Corrosion, Exclamation mark, Environment



**Precautionary statement – Prevention**

P234 Keep only in original container.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P273 Avoid release to the environment.

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**Precautionary statement – Response**

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

Skin  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
p310 Call a POISON CENTER or doctor/physician if you feel unwell.  
P363 Wash contaminated clothing before reuse.

Inhaled  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P310 Immediately call a POISON CENTER or doctor/physician.

Eyes  
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/physician.  
P390 Absorb spillage to prevent material damage.

P405 Store locked up.

**Precautionary statement – Storage**

**Precautionary statement – Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Water	7732-18-5	50-90 %
	Alkyldimethylbenzylammonium chloride	8001-54-5	10-50 %

### 4. First-aid measures

**Inhalation** If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discoloration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

**Skin** Wash affected areas with copious quantities of water immediately for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention.

**Eye contact** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek medical attention.

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

**Hazards from Combustion Products** May liberate toxic fumes in fire including of carbon and nitrogen.

**Specific Methods** This product contains a substantial proportion of water therefore there are no restrictions on the type of extinguishing media which may be used. Use extinguishing media most appropriate for the surrounding fire.  
Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from fire area.  
Large fire: Use dry chemical, CO2, foam or water spray - Do not use water jets. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.

**Hazchem Code** 2X

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**Decomposition Temp.** >100 °C (approx.)

**Precautions in connection with Fire** Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

## 6. Accidental release measures

**Personal Precautions** Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

**Clean-up Methods - Large Spillages** Seek expert advice on handling and disposal.

## 7. Handling and storage

**Precautions for Safe Handling** Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Under no circumstances eat, drink or smoke while handling this material. Contaminated clothing should be removed and washed before reuse.  
Always add material to water and NEVER water to material.

**Conditions for safe storage, including any incompatibilities** Keep container tightly closed in a dry, well-ventilated place away from direct sunlight. Store at room temperature (15 - 25 °C). Keep only in original container.

**Storage Regulations** Refer Australian Standard AS 3780-2008 'The storage and handling of corrosive substances'.

## 8. Exposure controls/personal protection

**Other Exposure Information** No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m<sup>3</sup>. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Appropriate engineering controls** Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

**Respiratory Protection** Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

**Eye Protection** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Hand Protection** Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

**Personal Protective Equipment** Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures

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<b>Footwear</b>	do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Body Protection</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Hygiene Measures</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear almost colourless liquid.
<b>Odour</b>	Aromatic odour.
<b>Decomposition Temperature</b>	>100 °C (approx.)
<b>Melting Point</b>	<0 °C
<b>Boiling Point</b>	>100 °C (approx.)
<b>Solubility in Water</b>	Miscible.
<b>Flammability</b>	Not readily combustible.
<b>Other Information</b>	Foams strongly when shaken.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable.
<b>Incompatible Materials</b>	Strong oxidising agents and strong acids.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, nitrogen oxides and hydrogen chloride.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Ingestion</b>	Harmful if swallowed. Corrosive to the gastrointestinal tract. May cause nausea, vomiting, abdominal irritation, pain, tissue damage to mouth, throat and oesophagus with extreme discomfort or pain if swallowed. Ingestion of concentrated product or strong solutions could be fatal.
<b>Inhalation</b>	The vapour is discomforting to the upper respiratory tract and may be harmful if inhaled. Inhalation may cause irritation, coughing, dyspnoea, headache, dizziness and nausea. Aspiration of liquid spray or mist may cause severe irritation and damage to respiratory tract.
<b>Skin</b>	Corrosive in contact with skin. May cause burns if not immediately washed off. Strong irritant effect. May be severe with sensitive individuals or after repeated contact.
<b>Eye</b>	Corrosive to the eyes and is capable of causing severe conjunctivitis. Corneal damage may develop, with possible impairment of vision, if not promptly and adequately treated. May cause permanent injury and impairment of vision.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.

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<b>Carcinogenicity</b>	Not listed in the IARC Monographs. Not classified based on available information.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Chronic Effects</b>	Repeated or prolonged exposure may cause allergic contact dermatitis. Asthma-like symptoms may continue for months or even years after exposure to the material ceases.
<b>Serious eye damage/irritation</b>	H314 Causes severe skin burns and eye damage.
<b>Mutagenicity</b>	Not classified based on available information.
<b>Skin corrosion/irritation</b>	Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage.

## 12. Ecological information

<b>Ecological Information</b>	A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.
<b>Ecotoxicity</b>	Quantitative data on the ecological effect of this product are not available. Highly toxic for aquatic organisms.
<b>Persistence and degradability</b>	Classified as Readily Biodegradable according to Australian Standard AS4351.
<b>Other Precautions</b>	Do not allow to enter waters, waste water, or soil!

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
<b>U.N. Number</b>	1760
<b>UN proper shipping name</b>	CORROSIVE LIQUID, N.O.S. - (contains benzyl-C12-16-alkyldimehylammonium chloride)
<b>Transport hazard class(es)</b>	8
<b>Hazchem Code</b>	2X
<b>Packing Group</b>	II
<b>IERG Number</b>	37

## 15. Regulatory information

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS).
<b>Poisons Schedule</b>	S5

## 16. Other Information

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.' Safe Work Australia, 'National Code of Practice for the Preparation of Safety
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Data Sheets for Hazardous Chemicals'.  
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.  
Safe Work Australia, 'Hazardous Chemical Information System'.  
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

**Contact Person/Point**

Paul McCarthy Ph. (08) 8440 2000      **DISCLAIMER STATEMENT:**  
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**Empirical Formula & Structural Formula**

A mixture of alkylbenzyltrimethylammonium chlorides of the general formula:  $[C_6H_5CH_2N(CH_3)_3R]Cl$  in aqueous solution.

...End Of MSDS...

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