



Infosafe No™	1CHJX	Issue Date : March 2016	RE-ISSUED by CHEMSUPP
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Product Name : **BENZALKONIUM CHLORIDE 10% Solution**

Classified as hazardous

1. Identification

GHS Product Identifier BENZALKONIUM CHLORIDE 10% Solution

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
Fax: (08) 8440-2001

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

Other Names	Name	Product Code
	Alkyl dimethyl benzyl ammonium chloride BENZALKONIUM CHLORIDE 10% Solution LR	BL010
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.	

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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
Eye Damage/Irritation: Category 1
Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 1A

Signal Word (s) DANGER

Hazard Statement (s) H290 May be corrosive to metals.
H303 May be harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H401 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.
P273 Avoid release to the environment.

Precautionary statement – Response P280 Wear protective gloves/protective clothing/eye protection/face protection.
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 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
Inhaled



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Precautionary statement – Storage

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.

Precautionary statement – Disposal

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.

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

3. Composition/information on ingredients

Chemical Characterization Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Liquid	Water	7732-18-5	90 %		
	Alkyldimethylbenzylammonium chloride	8001-54-5	10 %		

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 discolouration), 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 medical advice if effects persist.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. 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.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

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 carbon monoxide, nitrogen oxides and hydrogen chloride.

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. No limitations to the type of extinguishing media.
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 the fire is out. Avoid getting water inside containers.

Specific hazards arising from the chemical May burn but do not ignite readily. Containers may explode when heated. When heated, vapours may form explosive mixtures with air. Contact with metals may evolve flammable hydrogen gas. Runoff may pollute waterways. May be transported in a molten form. Fire will produce irritating, poisonous and/or corrosive gases.

Hazchem Code 2X

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



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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. Contaminated clothing should be removed and washed before reuse.**Conditions for safe storage, including any incompatibilities** Keep container tightly closed and dry, away from direct sunlight. Store at room temperature (15 - 25 °C).**Storage Regulations** Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.**8. Exposure controls/personal protection****Other Exposure Information** A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by SafeWork Australia for this product. There is a blanket limit of 10 mg/m³ for mists when limits have not otherwise been established.**Appropriate engineering controls** In industrial situations 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** Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Nitrile rubber gloves**Personal Protective Equipment** Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.**Footwear** Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.**Body Protection** 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.**Hygiene Measures** 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****Form** Liquid**Appearance** Colourless liquid.**Odour** Aromatic.**Melting Point** <0 °C**Boiling Point** >100 °C**Solubility in Water** Miscible (soluble) in all proportions.**Specific Gravity** 0.98**pH** pH of 1% w/w solution: 7.0 - 7.5
Alkaline to litmus.**Other Information** Foams strongly when shaken.**10. Stability and reactivity**



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Chemical Stability	Stable under normal use conditons.
Incompatible Materials	Strong oxidising agents and strong acids.
Hazardous Decomposition Products	Carbon monoxide, nitrogen oxides and hydrogen chloride.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptom or effects may occur.
Acute Toxicity - Oral	Oral LD50 (Rat): 240 mg/kg. Benzalkonium chloride
Ingestion	Harmful. Causes irritation of the gastrointestinal tract, mouth, pharynx and oesophagus. May cause nausea, vomiting, tissue damage to mouth and gullet and central nervous system depressant effects, (possibly preceded by excitement and convulsions) with paralyse of respiratory muscles leading to asphyxia.
Inhalation	Irritation symptoms in the respiratory tract, coughing, dyspnoea. Aspiration of liquid spray or mist may cause severe irritation and damage to respiratory tract.
Skin	Strong irritant effect. May be severe with sensitive individuals or after repeated contact.
Eye	Causes burns. May cause permanent injury and impairment of vision.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Repeated or prolonged exposure may cause allergic contact dermatitis. Asthma-like symptoms may develop.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	Possibility of causing a harmful effect on aquatic organisms in the event of improper handling or disposal.
Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Information on Ecological Effects	Very toxic to aquatic organisms.
Environmental Protection	Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Disposal Considerations	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

Transport Information	Dangerous Goods of Class 8 Corrosives 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 and Class 7.
U.N. Number	1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. - (contains benzyl-C12-16 alkyldimethylammonium chloride)
Transport hazard class(es)	8
Hazchem Code	2X
Packing Group	II
IERG Number	37

15. Regulatory information

Poisons Schedule	S5
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16. Other Information



chem-supply

Safety Data Sheet

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**Literature
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Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
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Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Substances Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.

**Contact
Person/Point**

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

Mixture of alkylbenzyltrimethylammonium chlorides of the general formula: [C6H5CH2N(CH3)2R]Cl

...End Of MSDS...

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