

# MATERIAL SAFETY DATA SHEET

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Infosafe No. 1CHG8

Issue Date: September 2019

Product Name: **BENZAKLONIUM CHLORIDE 50% SOLUTION**

- Classified as Hazardous according to criteria of Worksafe Australia

**POISON S6**

Not to be taken  
Keep out of reach of children  
Read safety instructions before opening



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**ANDALE  
ANTI BACTERIAL SPRAY**

## **IDENTIFICATION**

**Product Name** **BENZAKLONIUM CHLORIDE 50% SOLUTION**

**Proper Shipping Name** CORROSIVE LIQUID, TOXIC, N.O.S

**Other Names** Name Mancode

ALKYLDIMMETHYL BENYZL AMMONIUM CHLORIDE  
BENZAKLONIUM CHLORIDE  
BENZAKLONIUM CHLORIDE 0.5%

**UN Number** 2922

**DG Class** 8

**Sub. Risk** 6.1

**Packing Group** III

**Hazchem Code** 2X

**Poisons Schedule** S6

**Product Use** Fungicide, surface antiseptic, cationic detergent and laboratory reagent

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## **PHYSICAL DATA**

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<b>Appearance</b>	Clear almost colourless liquid
<b>Specific Gravity</b>	0.98 @ degrees
<b>Solubility in water</b>	Soluble

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## **OTHER PROPERTIES**

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<b>pH value</b>	pH of 1% w/w solution: 7.0-7.5 Alkaline to litmus
<b>Form</b>	Liquid
<b>Other information</b>	Foams strongly when shaken

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## **INGREDIENTS**

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<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Water	7732-18-5	50%
	Dodecyl dimethyl Chloride	139-07-1	50%

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## **HEALTH HAZARD INFORMATION**

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### **HEALTH EFFECTS**

**Acute – Swallowed** Harmful if swallowed. May cause nausea, vomiting, 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. Ingestion of concentrated product or strong solutions can be fatal

**Acute – Eye** Causes burns. May cause permanent injury and impairment of vision

**Accute – Skin** Harmful in contact with skin. Causes burns. May be severe with sensitive individuals or after repeated contact

**Acute – Inhaled** Causes burns. Aspiration of liquid spray or mist may cause severe irritation and damage to respiratory tract

**Chronic** Repeated or prolonged exposure may cause allergic contact dermatitis

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## **FIRST AID**

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**Swallowed** Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Give milk, gelatin solution or egg white. If vomiting occurs give more milk. Seek immediate medical assistance

**Eye** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

**Skin** Wash affected areas with copious quantities of water immediately. Seek urgent medical assistance.

**Inhaled** Remove victim to fresh air. Employ artificial respiration if indicated. Seek urgent medical assistance.

**First Aid Facilities** Maintain eyewash fountain and drench facilities in work area.

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## **Advice to Doctor**

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**Advice to Doctor** Treat symptomatically as for strong alkalis.  
Burns are not immediately painful, onset of pain may be minutes to hours.

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## **Other Health Hazard Information**

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### **PRECAUTIONS FOR USE**

**Eng. Controls**          Use adequate ventilation

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## **PERSONAL PROTECTION**

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**Eye Protection**          Use chemical safety goggles. Where dust or splashing of solutions is possible, use full face shield.

**Clothing**                  Wear suitable protective clothing and gloves to prevent skin contact.

**Work / Hygienic Practises**          Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material

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## **FLAMMABILITY**

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**Fire Hazards**          Residue after evaporation is combustible

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## **SAFE HANDLING INFORMATION**

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### **STORAGE AND TRANSPORT**

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**Storage**                  Store in a cool, dry place out of direct sunlight.

**Precautions**              Bulk storage tanks may be 316 stainless steel, glass lined, or polyester coated mild steel, polyethylene, polypropylene or Teflon. Storage in 316 stainless steel will cause darkening of colour. Transfer lines may be stainless 316 or Teflon coated steel. Pumps should be of 316 stainless steel. Care should be taken to avoid foaming during transfer of product. Exterior bulk storage tanks should be protected against excessive moisture loss. Static storage is recommended, but circulation facilities should be provided to ensure uniformity prior to pumping in or out of tanks. A nitrogen blanket will help maintain colour change during long term storage.

**Transport**                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.

**Storage Regulations**          Refer Australian Standard AS 3780 – 1994 ‘The storage and handling of corrosive substances’.

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## **STORAGE AND TRANSPORT CONTINUED**

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<b>Proper Shipping Name</b>	CORROSIVE LIQUID, TOXIC, N.O.S
<b>EPG Number</b>	8C3
<b>IERG</b>	37

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## **SPILLS AND DISPOSAL**

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**Spills & Disposal** Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. Do NOT touch or walk through this product. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so. Prevent entry into waterways, drains and confined areas.

Cover with DRY earth, sand or other non-combustible material followed by plastic sheet to minimize spreading or contact with rain.

**DO NOT GET WATER INSIDE CONTAINERS.**

**Disposal** Do not dump large quantities into biological treatment ponds. Laboratory data indicates that if quaternary ammonium compounds are discharged steadily at low concentrations, <15mg/litre, it may be expected that these salts can be degraded in sewage treatment plants by acclimatised organisms. Contact local Waste Disposal Authority regarding all major disposal problems

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## **FIRE/EXPLOSION HAZARD**

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**Fire/Explosion Hazard** Material does not burn. Fire or heat will produce irritating, poisonous and /or corrosive gases. Containers may explode when heated. Some may ignite combustibles (wood, paper, clothing, etc.) Contact with metals may evolve flammable hydrogen gas.

**Fire Fighting Procedures** Small fire: Use dry chemical, CO2 or water spray.  
Large fire: Use water spray, fog or foam – Do NOT use water jets.  
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

**Fire Fighting Precautions** 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.

**Hazchem Code** 2X

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## **OTHER INFORMATION**

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<b>Toxicology</b>	LD50 (rat, oral): 280 mg/kg. Dermal LD50 (rat) : 1560 mg/kg
<b>Risk Statement</b>	R34 Causes burns. R50 Very toxic to aquatic organisms. R21/22 Harmful in contact with skin and if swallowed
<b>Safety Statement</b>	S45 In case of accident or unwell, contact a doctor or Poisons Information Centre. S45 In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible). S61 Avoid release to the environment. Refer to special instruction/safety data sheet. S36/37/39 wear suitable protective clothing, gloves and eye/face protection.
<b>Pkg. &amp; Labelling</b>	First Aid phrases: a,p.
<b>Hazard Category</b>	Harmful, Corrosive.
<b>References</b>	Australian Health Ministers' Advisory Council, 'Standard for the Uniform' Scheduling of Drugs and Poisons No. 14', AGPS Canberra 1999. Lewis, Richard J.Sr. 'Hawley's Condensed Chemical Dictionary 12th Ed.', Rev., Van Nostrand Reinhold, NY 1993. National Road Transport Commission, 'Australian Dangerous Goods Code 6th Ed.' AGPS, Canberra, 1998 South Australia Government 'Approved Code of Practice for the Labelling of Workplace Substances', 1995. Standards Australia, 'Dangerous Goods – Initial Emergency Response Guide' 1997. Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances. (NOHSC: 1008(1999))', AGPS, Canberra 1999. Worksafe Australia, 'List of Designated Hazardous Substances (NOHSC:10005(1999))', AGPS, Canberra 1999. Worksafe Australia, 'National Code of Practice for the Labelling of Workplace

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## **CONTACT POINT**

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**POISON INFORMATION CENTRE 131 126**