

# Material Safety Data Sheet

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Product Name : **POOL SHOP LIQUID POOL CHLORINE**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	POOL SHOP LIQUID POOL CHLORINE
<b>Company Name</b>	CULBEAG HOLDINGS Pty Ltd (ABN 95 007 197 079)
<b>Address</b>	19 Allied Drive Tullamarine VICTORIA 3043 Australia
<b>Emergency Tel.</b>	03 9335 4400
<b>Telephone/Fax Number</b>	Tel: 03 9335 4400 Fax: 03 9335 1750
<b>Email</b>	sales@culbeag.com.au
<b>Recommended Use</b>	FOR CONTROL OF BACTERIA AND ALGAE IN SWIMMING POOLS AND SPAS.

## 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Classified as a DANGEROUS GOOD (1); UNNO 1791, Class 8, HYPOCHLORITE SOLUTION. Classified as HAZARDOUS SUBSTANCE(2). CORROSIVE. Causes burns. Contact with acids liberates toxic gas. After contact with skin , wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately. Do not mix with acids. Keep locked up and out of the reach of children ( if there is a potential for public use or exposure particularly children). Scheduled Poison; S5; Substance for low potential for causing harm.[10]
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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Sodium Hypochlorite	7681-52-9	13-14 %
	Sodium Hydroxide	1310-73-2	0-1 %
	Water	7732-18-5	Balance to 100%

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Move people from contaminated area immediately, but avoid injury to yourself. If patient(s) not breathing apply artificial respiration. If breathing is difficult oxygen can be given by a suitably trained/qualified person. Obtain medical attention or transport to a hospital promptly.
<b>Ingestion</b>	Never give fluids by mouth or induce vomiting if patient is unconscious or having convulsions. If swallowed do NOT induce vomiting. If conscious and alert give 1 or 2 glasses of water to rinse mouth and drink. Obtain medical advice promptly or transfer to a hospital.
<b>Skin</b>	If skin contact occurs remove contaminated clothing and foot wear and wash thoroughly with flowing water. Seek medical attention. Wash contaminated clothing thoroughly before re-use.
<b>Eye</b>	If in eye(s), hold eye(s) open, and flood with water for at least 15 minutes. Consult a doctor or transport to a hospital promptly.
<b>First Aid Facilities</b>	An eye wash unit, a safety shower and drinking quality water should be readily accessible in the work area for swimming pool and spa cleaning contractors or be adjacent to the swimming pool or spa in the domestic environment. Mild soap should be available to aid washing of the skin.
<b>Advice to Doctor</b>	No antidote available. Treat symptomatically and supportively.
<b>First Aid</b>	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

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## 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Use extinguishing media appropriate for the source of the fire. Do NOT get water inside containers. Use water fog or fine water spray to keep intact containers cool even after fire source is extinguished.
<b>Specific Methods</b>	Remove sealed containers from the path of a fire if safe to do so. If not keep fire-exposed containers cool with a water spray. Operate upwind of the containers and out of the path of the fire.
<b>Specific Hazards</b>	None expected as product is neither flammable nor combustible. As an oxidising agent it will greatly increase the burning rate of combustible materials. Sealed containers exposed to the heat of a fire may rupture releasing a corrosive solution as a spray and chlorine from decomposition of the product.
<b>Hazchem Code</b>	2X
<b>Precautions in connection with Fire</b>	Firefighters should wear full protective equipment and other equipment such as , self-contained breathing apparatus relevant to the major source of fire and the potential release of chlorine gas if product containers rupture.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Methods and Materials for Containment and Clean Up Procedures</b>	Remove unnecessary people from spill area. Wear appropriate protective clothing and contain spill with soil, sand or vermiculite to prevent entry into drains, sewers, water courses and water storages. Do not use sawdust. Collect spilled material if possible, otherwise soak up in an inert absorbent material and collect in labelled containers for disposal. Residual spilled product can be neutralised with a weak solution of sodium sulphite. Wash residual materials from spill scene/area with plenty of water.
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## 7. HANDLING AND STORAGE

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<b>Precautions for Safe Handling</b>	Do not breathe vapour, mist or gas. Do not get in eyes, on skin or on clothing. Discard contaminated footwear. Use clean containers for dispensing. Mix with water only.
<b>Conditions for Safe Storage</b>	Store under cover in a dry, clean, cool, well-ventilated place away from sunlight, food, food stuffs, strong acids, oxidising agents. Store in an upright container. Ensure that container is closed when not in use.
<b>Storage Regulations</b>	Store in accord with the Dangerous Goods (Storage and Handling) regulations of your jurisdiction.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>National Exposure Standards</b>	Sodium hypochlorite decomposes to chlorine if strongly acidified or heated. Under normal storage and handling conditions no hazardous decomposition products are released. A National Exposure Standard (NES)[3] has not been established by the NOHSC [4] for sodium hypochlorite. For chlorine the NES is 1 ppm, Peak limitation, where a Peak limitation is the maximum atmospheric concentration determined over the shortest, analytically practicable period of time not exceeding 15 minutes.
<b>Engineering Controls</b>	A system of local and/or general exhaust ventilation is recommended to keep exposure levels below the National Exposure Standard for chlorine. Ensure that ventilation installed is adequate and maintained to reduce inhalation exposure potential when handling and using this product.
<b>Respiratory Protection</b>	If exposure limit is exceeded and engineering controls are not practicable a full face air-purifying (acid gas) respirator may be used. Where atmospheric concentrations are unknown wear a fullface positive-pressure aair supplied respirator. Select and fit approved respirators according to A/NZS 1715 [5] and AS/NZS 1716 [6].
<b>Eye Protection</b>	Wear approved chemical goggles. Eye protection complying with AS/NZS 1337 [7] should be worn to protect against splashes and droplets of the product entering the eye. Guidance to recommended practices for eye protection in the

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<b>Body Protection</b>	industrial environment is provided in AS 1336 [8]. Ensure that an eye wash facility is readily available and accessible in the workplace. Employees handling and using this product are recommended to wear long-sleeved body covering clothing, protective gloves e.g. PVC coated gloves, eye protection (see above), PVC apron and for some operations 'rubber' or PVC footwear.
<b>Hygiene Measures</b>	It is a good work practice to avoid eye and skin contact, and avoid breathing vapour or mists of this product. In addition it is a good practice to wash face, hands and arms before eating, drinking or smoking and at the end of a work period.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Clear yellow liquid.
<b>Odour</b>	Chlorine-like odour.
<b>Boiling Point</b>	100°C
<b>Solubility in Water</b>	Soluble in all proportions.
<b>Specific Gravity</b>	1.17 - 1.19 @ 20°C
<b>Vapour Pressure</b>	17.5 mmHg @ 20°C
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Product is not flammable or combustible as it is a water based product.
<b>Flammable Limits - Lower</b>	Not relevant
<b>Flammable Limits - Upper</b>	Not relevant

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## 10. STABILITY AND REACTIVITY

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<b>Stability and Reactivity</b>	Decomposes slowly at ambient temperatures releasing low concentration of chlorine. Decomposition influenced by temperature, exposure to light and the presence of metals.
<b>Conditions to Avoid</b>	Light, combustible materials, strong acids and temperatures above 40°C
<b>Incompatible Materials</b>	Strong acids, amines, ammonia, ammonium salts, reducing agents, metals, methanol, formic acid. Do not mix with different types of chlorinating compounds.
<b>Hazardous Decomposition Products</b>	Chlorine gas evolved on heating.
<b>Hazardous Reactions</b>	Evolves toxic and corrosive gas on contact with acids. Hypochlorous acid fumes with weak acids and chlorine if reacted with strong acids such as hydrochloric acid and sulphuric acid. Reacts with aluminium and zinc, generating hydrogen.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Inhalation</b>	Inhalation of mists or vapour of product will cause severe irritation of mucous membranes of respiratory tract. Vapour of product may cause eye irritation.
<b>Ingestion</b>	Irritating to mucous membranes and other tissues. Will cause severe irritation and potentially burns to throat (gullet) and stomach. May cause nausea and vomiting.
<b>Skin</b>	Moderate to severe skin irritant on single short term exposure. Prolonged or frequently repeated skin contact may result in a burn. Product is classified as a CORROSIVE according to the List of Designated Hazardous Substances (2).
<b>Eye</b>	If in eyes will cause severe irritation and eye burns. Product is corrosive

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**Chronic Effects** to eye tissue. Risk of serious eye effects. May cause permanent injury possibly loss of sight.  
Prolonged or frequently repeated exposure may cause dermatitis.

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## 12. ECOLOGICAL INFORMATION

**Environ. Protection** Toxic to aquatic organisms. Avoid contamination of drains, watercourse and water storages.

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## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Dispose of waste materials in accordance with relevant State or Territorial waste disposal regulations.

**Container Disposal** Triple rinse empty containers with water. Recycle per plastic waste recovery system. Do NOT use for storage or packaging of other liquids.

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## 14. TRANSPORT INFORMATION

**Transport Information** Product is a dangerous good, Class 8 - CORROSIVE for transport by road, rail, sea or air. Road and rail transport should be in accord with the current edition of the ADG Code (1) Product is incompatible in a transport load containing Class 1, Class 4.3, Class 5, Cyanides, Acids, Radioactive goods and is incompatible with food and food packaging in any quantity.

**U.N. Number** 1791

**Proper Shipping Name** HYPOCHLORITE SOLUTION

**DG Class** 8

**Hazchem Code** 2X

**Packaging Method** 3.8.8RT7,RT8

**Packing Group** II

**EPG Number** 8A1

**IERG Number** 37

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## 15. REGULATORY INFORMATION

**Regulatory Information** Product is classified as a hazardous substance - CORROSIVE.  
For labelling of workplace substances refer to the NOHSC Code of Practice [9];  
RISK Phrases;  
R34 Causes burns  
R31 Contact with acids liberates toxic gas.  
SAFETY Phrases;  
(S1/2 Keep locked up and out of the reach of children.)\*  
S28 After contact with skin, wash immediately with plenty of soap suds.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label when ever possible).  
S50 Do not mix with acids.

\* This phrase to be included in the label if product is likely to be used by or in presence of the general public.

If product is repacked for sale in the consumer market place labelling requirements will differ. It is the repackers responsibility to label according to the relevant regulations. Refer to the SUSDP [10] under CHLORINATING COMPOUNDS.

**Poisons Schedule** S5

**Packaging & Labelling** Label is approved by APVMA[13] for 3 pack sizes: 5L,15L & 20 L

**AICS (Australia)** Principal components of this product are included in the Australian Inventory of Chemical Substances [11]

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** Revised on 23 October 2007 - Section 3.

**Contact Person/Point** BUSINESS HOURS: Product Information Officer, (03) 9335 4400  
This MSDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.  
Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

**Literature References**

- [1] Australian Dangerous Goods Code, 6th Edition, 1998.
- [2] List of Designated Hazardous Substances section of NOHSC Hazardous Substances Information System (HSIS), August 2005 ([www.nohsc.gov.au/applications/hsis](http://www.nohsc.gov.au/applications/hsis)) and the Approved Criteria for Classifying a Hazardous Substance, 3rd Edition, October 2004. ([www.nohsc.gov.au/pdf/Standards](http://www.nohsc.gov.au/pdf/Standards))
- [3] Exposure Standards for Atmospheric Contaminants in the Occupational Environment in exposure standards section of HSIS, as amended. ([www.nohsc.gov.au/applications/hsis](http://www.nohsc.gov.au/applications/hsis))
- [4] NOHSC = National Occupational Health and Safety Commission now known as the Australian Safety and Compensation Commission.
- [5] AS1716: Respiratory protective devices.
- [6] AS1715: Selection, use and maintenance of respiratory protective devices.
- [7] AS/NZS1337: Eye protectors for the industrial applications.
- [8] AS1336: Recommended practices for eye protection in the industrial environment.
- [9] National Code of Practice for Labelling of Workplace Substances, 1st Edition [NOHSC:2012(1994)]
- [10] SUSDP = Standard for the Uniform Scheduling of Drugs and Poisons, NHMRC
- [11] Australian Inventory of Chemical Substances maintained by National Industrial Chemicals Notification and Assessment Scheme. ([www.nicnas.gov.au](http://www.nicnas.gov.au)).
- [12] National Code of Practice for the Preparation of Material Safety Data Sheets, 2nd Edition, [NOHSC: 2011(2003)]
- [13] APVMA = Australian Pesticides and Veterinary Medicines Authority.

...End Of MSDS...