



Revision Date 26-May-2020

Version 7

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier	
Product Name	Cal Chlor CLC 700
Product Code	A-0999
Other means of identification UN Number Synonyms	UN2880 Calcium Hypochlorite, 20020353, 20020354
Recommended use of the chemical	and restrictions on use
Recommended Use	Swimming pool chemical
Uses advised against	No information available
Details of manufacturer or importer	_
Supplier BIOLAB AUSTRALIA PTY LTD 1 Susan Street Hindmarsh SA 5007 AUSTRALIA PHONE: (AU) 1800 635 743	
For further information, please cont	act
Contact Point	Customer Service: 1800 635 743 (AU)
Emergency telephone number	
Emergency telephone number	In an Emergency: Dial 000 (AU) For SPECIALIST advice in an EMERGENCY ONLY phone CHEMCALL - FREE CALL ALL HOURS: AU 1800 127 406

SECTION 2: HAZARD(S) IDENTIFICATION

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

GHS Classification

Oxidising solids	Category 2 - (H272)
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 5 - (H313)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

Label elements



Signal word

DANGER

Hazard statements

H272 - May intensify fire; oxidiser
H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H314 - Causes severe skin burns and eye damage

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapours/spray Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/combustible materials Take any precaution to avoid mixing with combustibles

Precautionary Statements - Response

Immediately call a POISONS INFORMATION CENTRE or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISONS INFORMATION CENTRE or doctor

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

Wash contaminated clothing before re-use

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISONS INFORMATION CENTRE or doctor

Rinse mouth Do NOT induce vomiting Fire In case of fire: Use water spray to extinguish Precautionary Statements - Storage Store locked up Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

Other hazards

No information available

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8

Substance

Chemical Name	CAS No	Weight-%
calcium hypochlorite	7778-54-3	60-100
Calcium hydroxide	1305-62-0	1 - 3*

calcium carbonate	471-34-1	1 - 3*

Non-hazardous ingredients

Proprietary

Balance

Additional information

*The exact percentage (concentration) of composition has been withheld as a trade secret

Section 4: FIRST AID MEASURES

Description of first aid measures

General advice	Immediate medical attention is required.	
Inhalation	Remove to fresh air. Call a doctor or poisons information centre immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.	
Skin contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use.	
Eye contact	Immediate medical attention is required. Rinse thoroughly with plenty of water, also under the eyelids. Continue rinising eyes during transport to hospital. Keep eye wide open while rinsing. Do not rub affected area.	
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a doctor or poisons information centre immediately. Transport to hospital or doctor without delay.	
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	No information available.	
Indication of any immediate medica	cation of any immediate medical attention and special treatment needed	
Note to doctors	Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal oedema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.	

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable extinguishing media

Water spray, fog (flooding amounts).

Unsuitable extinguishing media

Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes Thermal decomposition can lead to release of irritating and toxic gases and vapours In the event of fire and/or explosion do not breathe fumes Will not burn but increase intensity of fire. Heat affected containers remain hazardous. Do not allow contact with combustible material such as paper, fabric, saw dust and kerosene.

Special protective actions for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Hazchem code

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Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dam far ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

Precautions to prevent secondary hazards

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections

No information available.

SECTION 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidising agents. Avoid contact with water on concentrated material in

the container. Ammonia. Acids. Bases. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Do not mix with other chemicals. Reducing agents.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	Australia
Calcium hydroxide 1305-62-0	5 mg/m ³
calcium carbonate 471-34-1	10 mg/m ³

Appropriate engineering controls

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Engineering Controls	Ensure adequate ventilation, especially in confined areas.			
Individual protection measures, suc	ch as personal protective equipment			
Eye/face protection	Tight sealing safety goggles. Face protection shield.			
Skin and body protection	Gloves made of plastic or rubber. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.			
Respiratory protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection. In the case of dust formation use a respirator with an approved filter.			
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.			

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Colour	Solid dry, free flowing granules white	Odour Odour threshold	Chlorine No information available
Property pH Melting point / freezing point Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapour pressure Vapour density Specific Gravity	Values 11.4 - 11.6 170 -180 °C No information available No information available	Remarks • Method @ 25°C 5% solution Decomposes on heating No information available No information available No information available No information available No information available No information available	

Water solubility Solubility(ies) Partition coefficient Auto-ignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidising properties

Other Information

VOC Content (%) Density Bulk density Soluble in water

No information available No information available

No information available 1 -1.1 g/cm3 No information available No information available

Section 10: STABILITY AND REACTIVITY

Reactivity

Unstable in the presence of . incompatible material. Highly reactive oxidizing chlorine compound. Do not allow contact with combustible material such as paper, fabric, saw dust and kerosene.

Chemical stability

Stable under normal conditions.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Conditions to avoid

Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidising agents. Avoid contact with water on concentrated material in the container. Ammonia. Acids. Bases. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Do not mix with other chemicals. Reducing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapours. Chlorine gas. Oxygen. Carbon oxides. Hydrogen chloride gas.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation	Harmful by inhalation. Irritating to respiratory system.
Eye contact	Avoid contact with eyes. Risk of serious damage to eyes. Severely irritating to eyes.
Skin contact	Harmful in contact with skin. Contact with moist skin may cause skin burns. Irritating to skin.
Ingestion	Harmful if swallowed.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)999.00ATEmix (dermal)2,370.00

19.5% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
calcium hypochlorite	= 850 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Calcium hydroxide	= 7340 mg/kg (Rat)	-	-
calcium carbonate	= 6450 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Sensitisation

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.					
Chemical Name		Australia	IARC		
calcium hypochlorite - 7778-54-3			Group 3		
IARC (International Agency for	Not classifiable	e as a human carcinogen			

IARC (International Agency for Not class Research on Cancer)

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

Chronic toxicity

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen Avoid repeated exposure Possible risk of irreversible effects

Target Organ Effects

Eyes Respiratory system Skin

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity 21.5 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
calcium hypochlorite	-	0.4: 96 h Lepomis macrochirus mg/L	-
		LC50 flow-through 0.185 - 0.26: 96	
		h Cyprinus carpio mg/L LC50	
		semi-static 0.5: 24 h Morone	
		saxatilis mg/L LC50 static 0.13 - 0.2:	
		96 h Oncorhynchus mykiss mg/L	
		LC50 static 0.054 - 0.06: 96 h	
		Lepomis macrochirus mg/L LC50	
		semi-static 0.561 - 1.41: 96 h	
		Pimephales promelas mg/L LC50	
		static 0.049 - 0.16: 96 h Lepomis	
		macrochirus mg/L LC50 static 0.055	
		- 0.1: 96 h Oncorhynchus mykiss	
		mg/L LC50 semi-static	
Calcium hydroxide	-	160: 96 h Gambusia affinis mg/L	-
		LC50 static	

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility

Mobility in soil No information available.

Mobility

No information available.

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods				
Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.			
Contaminated packaging	Do not re-use container. Disposal should be in accordance with applicable regional, national and local laws and regulations.			

Section 14: TRANSPORT INFORMATION

Note:

Limited quantity (LQ) exception is possible

ADG	
UN Number	UN2880
Proper shipping name	Calcium hypochlorite, hydrated
Hazard Class	5.1
Packing Group	II
Description	UN2880, Calcium hypochlorite, hydrated, 5.1, II

IATA UN/ID no Proper shipping name Hazard Class Packing Group Description	UN2880 Calcium hypochlorite, hydrated 5.1 II UN2880, Calcium hypochlorite, hydrated, 5.1, II
IMDG UN/ID no Proper shipping name Hazard Class Packing Group EmS-No Marine pollutant	UN2880 Calcium hypochlorite, hydrated 5.1 II F-H, S-Q Yes

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No information available

Section 15: REGULATORY INFORMATION

Regulatory information

National regulations

Australia

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

See section 8 for national exposure control parameters

Poison Schedule Number 6

International Inventories	
TSCA	Complies
NZIOC	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory NZIOC - New Zealand Inventory of Chemicals AICS - Australian Inventory of Chemical Substances

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

SECTION 16: ANY OTHER RELEVANT INFORMATION

Revision Date

26-May-2020

Revision Note

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Carcinogen

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION					
TŴĂ	TWA (time-weighted average)	STEL	STEL (Short Te		
Ceiling	Maximum limit value	*	Skin designatio		

STEL (Short Term Exposure Limit) Skin designation

Disclaimer

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End of Safety Data Sheet