Calc-Chlor Pods

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier Calc-Chlor Pods

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Disinfection of Swimming Pool Water

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
E-mail: sales@cpc-chemicals.co.uk

1.4 **Emergency Telephone**

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class		**Hazard statements:**	
Ox. Sol. 2	GHS03	H272	May intensify fire; oxidiser
Skin Corr. 1B	GHS05	H314:	Causes severe skin burns and eye damage
Aquatic Acute 1	GHS09	H400:	Very toxic to aquatic life
Acute Tox. 4 *	GHS07	H302	Harmful if swallowed

Most important adverse effects

Human Health:	See section 11 for toxicological information
Physical & Chemical Hazards:	See section 9 for physicochemical information
Potential environmental effects:	See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard Pictograms:

GHS03 GHS05 GHS07 GHS09

Signal word: Danger

Hazard-determining components of labelling: Calcium Hypochlorite

Hazard statements:	H272	May intensify fire; oxidiser
	H314:	Causes severe skin burns and eye damage
	H400:	Very toxic to aquatic life
	H302	Harmful if swallowed
Precautionary statements:	P101:	If medical advice is needed, have product container or label at hand.
	P102:	Keep out of reach of children
	P221:	Take any precaution to avoid mixing with combustibles.
	P303+P361+P353:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
	P310:	Immediately call a POISON CENTER/doctor.
	P405:	Store locked up
	P501:	Dispose of contents/container in accordance with local/regional/national/international regulations.

2. Hazard Identification

Additional information: EUH031 Contact with acids liberates toxic gas.

EUH026 Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.3 Other Hazards

Results of PBT and vPvB assessment: Not applicable

3. Composition/information on ingredients

3.1 Substances

Calcium Hypochlorite

Index No	%	CAS No	ENICS No	Hazards
017-012-00-7	70 - 100%	7778-54-3	231-908-7	Ox. Sol. 2; H272 : Skin Corr. 1B; H314: Aquatic Acute 1; H400: Acute Tox. 4 *; H302

4. First Aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment.

After eye contact: Rinse opened eye for several minutes under running water.
Call a doctor immediately.

After swallowing: Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms & effects: No further relevant information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: No further relevant information available.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: In case of fire: use carbon dioxide or water spray for extinction

Unsuitable media: DO NOT USE water with full jet

5.2 Special hazards arising from the substance or mixture

Specific Hazards: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for fire-fighters

Protective equipment: Wear protective clothing as per section 8
Mouth respiratory protective device.

Additional information Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Avoid formation of dust.

6.2 Environmental precautions

Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

6.3 Methods and materials for containment and cleaning up

Cleaning up: Use neutralising agent.

Further Information: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4 Reference to other sections

Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Use only in well ventilated areas. Ensure that suitable extractors are available on processing machines. Thorough dedusting.

Information about fire explosion protection: The product is not flammable. Substance/product is oxidising when dry.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements to be met by storerooms and receptacles:

Storage areas: Store in a cool location. Provide alkali-resistant floor.

Fire and explosion: Normal measures for preventative fire protection

Common Storage: Store away from flammable substances. Do not store together with acids.

Further information : Store in cool, dry conditions in well sealed receptacles. Protect from humidity and water.

7.3 Specific end uses

Specific end uses No further relevant information available.

8. Exposure control/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls


Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Use skin protection cream for skin protection. Do not inhale dust / smoke / mist.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation. Filter P2. Filter P3

8. Exposure control/personal protection

8.2 Exposure controls

Hand protection

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Suitable material:
- Natural rubber, NR
- Nitrile rubber, NBR
- Butyl rubber, BR
- Fluorocarbon rubber (Viton)
- PVC gloves

Unsuitable material:
- Leather gloves
- Strong material gloves

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective work clothing & Boots

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	white, tablets
Odour:	like chlorine
pH-value (10 g/l) at 20 °C:	12
Change in condition	
Melting point/Melting range:	100 °C (Zers.)
Boiling point/Boiling range	Undetermined.
Decomposition temperature:	177 °C
Danger of explosion:	Heating may cause an explosion. Explosive when mixed with combustible material.
Density at 20 °C:	2.35 g/cm³
Miscibility with water at 20 °C:	217 g/l
Solvent content:	
Organic solvents:	0.00%
VOC (EC)	0.00%

9.2 Other Information

No further relevant information available.

10. Stability and reactivity

10.1 Reactivity

Reactivity: No further relevant information available.

10.2 Chemical stability

Chemical stability: Thermal decomposition / conditions to be avoided: Can decompose slowly with localised heating above 150 °C.

10.3 Possibility of hazardous reactions

Hazardous reactions:
- Strong exothermic reaction with acids.
- Reacts with amines.
- Reacts with acids releasing chlorine.

10.4 Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5 Incompatible materials

Materials to avoid: No further relevant information available.

10.6 Hazardous decomposition products

Haz. Decomp. products: Hydrogen chloride (HCl) ; Chlorine ; Oxygen

11. Toxilogical Information

11.1 Information on toxilogical effects

Acute toxicity Harmful if swallowed.

LD / LC50 values relevant for classification

7778-54-3 calcium hypochlorite

LC50	0.023 mg/l	(Danio rerio (Zebrabärbling))

Primary irritant effect:

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.

12. Ecological Information

12.1 Toxicity - Very toxic to aquatic life

Aquatoxicity

7778-54-3 calcium hypochlorite

EC50	0.07 mg/l	(daphnia)
LC50	0.41 mg/l	(daphnia)

12.2 Persistence and degradability

Persistence and degradability No further relevant information available.

12.3 Bioaccumlative potential

Bioaccumlative potential No further relevant information available.

12.4 Mobility in soil

Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Very toxic for fish

Additional ecological information:

General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and PvB assessment

PBT and PvB Not a PBT according to REACH Annex XIII

12.6 Other adverse effects No further relevant information available.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal should be in accordance with local,state or national legislation
Avoid release to the environment . Do not allow to enter public sewers and water courses
This material and/or its container must be disposed of as hazardous waste
Do not reuse empty containers without commercial cleaning or reconditioning

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

14. Transport Information

Oxidising Agent

Corrosive


Marine Pollutant

14.1 UN Number UN3487

14.2 UN proper shipping name CALCIUM HYPOCHLORITE ,HYDRATED, CORROSIVE, ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es) 5.1 + 8

14.4 Packaging Group II

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

Danger Code	58	
Segregation groups	Hypochlorites	
Stowage Category	D	
Stowage Code	SW1	Protected from sources of heat.
	SW11	Cargo transport units shall be shaded from direct sunlight. Packages in cargo transport units shall be stowed so as to allow for adequate air circulation throughout the cargo.
Segregation Code	SG35	Stow "separated from" acids.
	SG38	Stow "separated from" ammonium compounds.
	SG49	Stow "separated from" cyanides
	SG53	Stow "separated from" liquid organic substances
	SG60	Stow "separated from" peroxides

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Other information

Road/Rail (ADR/RID)
Proper Shipping Name: CALCIUM HYPOCHLORITE ,HYDRATED, CORROSIVE, ENVIRONMENTALLY HAZARDOUS
ADR UN No.: 3487
ADR Hazard Class: 5.1(8) ADR Packing Group: II
Tunnel Code: E

Sea (IMDG) CALCIUM HYPOCHLORITE ,HYDRATED, CORROSIVE MARINE POLLUTANT
Proper Shipping Name: 3487
IMDG UN No.: 5.1(8) IMDG Packing Group: II
IMDG Hazard Class:

Air (ICAO/IATA)
Proper Shipping Name: CALCIUM HYPOCHLORITE ,HYDRATED, CORROSIVE
ICAO UN No.: 3487
ICAO Hazard Class: 5.1(8) ICAO Packing Group: II

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.2 Chemical Safety Assessment

No informaiton available

16. Other information

H272	May intensify fire; oxidiser
H314:	Causes severe skin burns and eye damage
H400:	Very toxic to aquatic life

H302+EUH031: Harmful if swallowed. Contact with acids liberates toxic gas.

H335+H336: May cause respiratory irritation. May cause drowsiness or dizziness

Warning! Do not use together with other products. May release dangerous gases (chlorine)

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Indicates updated section