

**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](mailto: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.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with  
P303+P361+P353: 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.

Trade Name: Calc-Chlor Pods

## 2. Hazard Identification

Additional information: EUH031 Contact with acids liberates toxic gas.  
Warning! Do not use together with other products. May release dangerous gases  
EUH026 (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/cm<sup>3</sup>

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. Toxicological Information****11.1 Information on toxicological effects**

**Acute toxicity** Harmful if swallowed.

**LD / LC50 values relevant for classification**

7778-54-3 calcium hypochlorite

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

**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 (carcinogenicity, 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

Aquatotoxicity

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 Bioaccumulative potential**

Bioaccumulative potential No further relevant information available.

**12.4 Mobility in soil**

Mobility in soil No further relevant information available.

**Ecotoxicological 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

<b>14.1 UN Number</b>	UN3487
<b>14.2 UN proper shipping name</b>	CALCIUM HYPOCHLORITE ,HYDRATED, CORROSIVE, ENVIRONMENTALLY HAZARDOUS
<b>14.3 Transport hazard class(es)</b>	5.1 + 8
<b>14.4 Packaging Group</b>	II
<b>14.5 Environmental hazards</b>	Marine Pollutant
<b>14.6 Special precautions for user</b>	
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)	
Proper Shipping Name:	CALCIUM HYPOCHLORITE ,HYDRATED, CORROSIVE MARINE POLLUTANT
IMDG UN No.:	3487
IMDG Hazard Class:	5.1(8) IMDG Packing Group: II
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 information 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)

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█ Indicates updated section