

Pro-Cal Calcium Hypochlorite Tablets

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

1.1 Product Identifier

Trade Name: Calcium Hypochlorite Tablets

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) 3712 229084 (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 H272

Acute Tox. 4 * H302

Skin Corr. 1B H314

Aquatic Acute 1 H400

For the full text of the H statements mentioned in this section see Section 16.

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 symbols:



Signal word: Danger

Hazard statements:

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)

Precautionary statements:

Keep out of reach of children

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Wear protective gloves/protective clothing/eye protection/face protection

IF exposed or If you feel unwell : Call a POISON CENTER or doctor/physician.

Additional Labelling:

EUH031 Contact with acids liberates toxic gases

Hazardous components which must be listed on the label

Calcium Hypochlorite

2.3 Other Hazards

Use biocides safely. Always read the label and product information before use.

Trade Name: Calcium Hypochlorite Tablets

3. Composition/information on ingredients

3.1 Mixtures	Calcium Hypochlorite			
Chemical Name	%	CAS No	ENICS No	CLP Hazards
Calcium Hypochlorite	70 - 100%	7778-54-3	231-908-7	H272, H302, H314, H400

4. First Aid measures

4.1 Description of first aid measures

IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair):	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
IF SWALLOWED:	Rinse mouth. Do NOT induce vomiting

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects: Can cause damage to the eyes and skin. Prolonged skin or eye contact may cause chemical burns. In cases of severe exposure, breathing difficulty may develop

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat Symptomatically.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Use carbon dioxide for extinction
Unsuitable media: DO NOT USE dry extinguishers containing ammonium compounds i.e. dry powder

5.2 Special hazards arising from the substance or mixture

Specific Hazards : Calcium Hypochlorite is both a strong oxidiser and is chemically reactive with many substances. Strong oxidisers are capable of intensifying a fire once started; because of this any contamination of the product with other substances by spill or otherwise should be avoided.
Gives off irritating or toxic fumes (or gases) in a fire. Exposure to decomposition products may be a hazard to health. See Section 10.6

5.3 Advice for fire-fighters

Protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit
Evacuate area. Fight fire remotely due to the risk of explosion

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear protective clothing as per section 8. Evacuate the area and keep personnel upwind. Avoid raising dust. Avoid contact with combustible material

6.2 Environmental precautions

Environmental precautions Avoid release to the environment. Do not allow to enter public sewers and watercourses. If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities.

6.3 Methods and materials for containment and cleaning up

Containment: Place in appropriate container. Seal containers and label them. Remove contaminated material to safe location for subsequent disposal

Cleaning Up: Do not absorb spillage in sawdust or other combustible material. Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

Other Sections: See Section 1 for emergency contact information
See Section 7 & 8 for information on Personal protective equipment
See section 13 for waste treatment information

7. Handling and storage

7.1 Precautions for safe handling

Safe handling: Do not mix with any other products. Ensure adequate ventilation
Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities.

Storage areas : Store in a dry, well-ventilated place. Keep cool. Protect from moisture

Containers: Keep only in original container

Fire and explosion: Do not store above 35 °C

Further information: Store away from other materials.

Common storage: Keep away from foodstuff, acid and reducing agents

7.3 Specific end uses

Specific end uses No information available

8. Exposure control/personal protection

8.1 Control parameters

Calcium hypochlorite - WEL (short term) 2 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

Personal protective equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection

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

Eye protection Wear safety glasses approved to standard EN 166.

Skin and body protection Wear apron or other light protective clothing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	White, granules
Odour	Chlorine
pH	12 at 1 % concentration
Vapour pressure	Not applicable
Vapour density	Not applicable
Melting point	180° C with decomposition
Water solubility	217 g/l at 27 °C
Flash point -	Not known
Oxidising	Strong oxidising agent
Viscosity	Not applicable

9.2 Other Information

- No information available

10. Stability and reactivity

10.1 Reactivity

Reactivity Strong oxidising agent. Use with other products may release Chlorine

10.2 Chemical stability

Chemical stability Decomposes above 180 °C

10.3 Possibility of hazardous reactions

Hazardous reactions: Contact with acids liberates toxic gas. Exothermic reaction on heating

10.4 Conditions to avoid

Conditions to avoid: Keep away from heat and moisture. Prevent ingress of humidity and moisture into container or package. Always close the lid after use. Avoid contact with combustible material and foodstuffs.

10.5 Incompatible materials

Materials to avoid Reacts with acids to produce free chlorine
Incompatible with reducing agents, metals, strong oxidising substances and Ammonia

10.6 Hazardous decomposition products

Haz. decomp. products: Decomposition products may include acidic and toxic gases
Decomposition products may include oxygen, chlorine and carbon oxides

11. Toxicological Information

11.1 Information on toxicological effects

- LD50 (oral, rat) 790 mg/kg
- Prolonged skin or eye contact may cause chemical burns

Inhalation	May cause respiratory tract irritation. Causes delayed pulmonary oedema
Contact with skin	Causes redness, irritation and blistering of the skin. Can cause damage to the mucous membranes
Contact with eyes	Causes redness, swelling and burning sensation. Can cause damage to the eyes
Ingestion	The ingestion of significant quantities may cause burning sensation The ingestion of significant quantities may cause damage to the digestive system
Carcinogenicity	No evidence of carcinogenic effects
Teratogenicity	No information available
Mutagenicity	No information available

12. Ecological Information

12.1 Toxicity Very toxic to aquatic life

LC50	(bluegill sunfish)	0.088	mg/l	(96hr)
LC50	(rainbow trout)	0.16		(96hr)
EC50	(Daphniamagna)	0.116	mg/l	(48hr)

12.2 Persistence and degradability

Persistence and degradability No information available

12.3 Bioaccumulative potential

Bioaccumulative potential No information available

12.4 Mobility in soil

Mobility in soil This substance is poorly absorbed onto soils or sediments
Large volumes may penetrate soil and contaminate groundwater

12.5 Results of PBT and PvB :

PBT and PvB : Not a PBT according to REACH Annex XIII

12.6 Other adverse effects

Other adverse effects Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized. Danger to drinking water if even extremely small quantities leak into the ground. May cause long term adverse effects in the aquatic environment

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

14.1 UN Number	UN3487	
14.2 UN proper shipping name	CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE	
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	See Section 7	

14. Transport Information

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
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
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

Full text of H-statements referred to under sections 2 and 3

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