

Procal Extra

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

1.1 Product Identifier

Trade Name: Procal Extra

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) 371 2229084 (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
Stot SE 3	H335

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:



Hazard pictograms: GHS03: Oxidising
 GHS05: Corrosion
 GHS07: Warning
 GHS09: Environmental

Signal word: Danger

2. Hazard Identification

Hazard statements: H272 May intensify fire; oxidiser
 H302 Harmful if swallowed
 H314: Causes severe skin burns and eye damage
 H335: May cause respiratory irritation.
 H400: Very toxic to aquatic life

Precautionary statements: P102 Keep out of reach of children.
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye & face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTRE or doctor/physician

Additional Labelling: EUH031 Contact with acids liberates toxic gases

Hazardous Ingredients for labelling: Calcium hypochlorite

2.3 Other Hazards

Warning! Do not use together with other products. May release dangerous gases (chlorine).
 This mixture does not contain any substances that are assessed to be a PBT or a vPvB

3. Composition/information on ingredients

3.1 Mixtures Mixture of the substances listed below with nonhazardous additions.

Index No	CAS No	ENICS No	%	CLP Phrases
Calcium Hypochlorite				
017-012-00-7	7778-54-3	231-908-7	50 -100%	Ox. Sol. 2, H272; Met. Corr.1, H290; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Acute Tox. 4, H302
Calcium dihydroxide				
-	1305-62-0	215-137-3	2.5-10%	Eye Dam. 1, H318; Skin Irrit. 2, H315
Calcium Chloride				
017-013-00-2	10043-52-4	233-140-8	< 2.5%	Eye Irrit. 2, H319

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First Aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing contaminated by the product.
 Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

After inhalation: Supply fresh air and call for doctor for safety reasons.

After skin contact: Consult a doctor for safety reasons. Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

4. First Aid measures**4.1 Description of first aid measures**

After eye contact: Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Use eye protection. Call a doctor immediately.

After swallowing: Drink copious amounts of water and provide fresh air. Instantly call for doctor. Do not induce vomiting - Danger of perforation!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects: Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

4.3 Indication of immediate medical attention and special treatment needed

Treatment No further information available.

5. Fire fighting measures**5.1 Extinguishing media:**

Suitable media: Only use plenty of water

Unsuitable media: All but water

5.2 Special hazards arising from the substance or mixture

Specific Hazards : Hazardous decomposition products: Section 10.

Oxidising property.

In contact with Water, Combustible materials: Danger of fire, Explosion risk.

5.3 Advice for fire-fighters

Protective equipment: In the event of fire, wear self-contained breathing apparatus.

Further Information: Keep containers cool with water spray.
In case of fire and/or explosion do not breathe fumes.
Co-ordinate firefighting measures to the fire surroundings.
Do not allow firefighting water to enter drains or water courses.
Collect contaminated firefighting water separately.
Fight fire with normal precautions from a reasonable distance.

6. Accidental release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions: Ensure adequate ventilation. Wear protective clothing and keep away unprotected persons. Remove all ignition sources. Do not breathe dust. Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and materials for containment and cleaning up

Cleaning up Ensure adequate ventilation. Use neutralizing agent. Collect mechanically. Dispose of the material collected according to regulations.

Further information Treat recovered material as described in the section "Disposal considerations."

6.4 Reference to other sections For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling:
- Ensure good ventilation/exhaustion at the workplace.
 - Thorough dedusting. Prevent formation of dust. Do not breathe dust.
 - Avoid skin and eye contact under any circumstances.
 - Any deposit of dust which cannot be avoided must be removed regularly.
 - Make sure that all applicable workplace limits are observed.

7.2 Conditions for safe storage, including any incompatibilities.

Flammability hazards: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Take precautionary measures against static discharge.
 Keep valves and fittings free from oil and grease

Protection against fire : Substance/product is oxidizing when dry.

Common storage: Store away from foodstuffs, flammable substances and reducing agents. Do not store together with acids.

Further information: Store in cool, dry conditions in well sealed containers.
 Protect from heat and direct sunlight.
 Store container in a well ventilated position.
 Store in a locked cabinet or access restricted to specifically instructed persons.
 Protect from contamination.

7.3 Specific end uses

Specific end uses: No information available

8. Exposure control/personal protection

8.1 Control parameters

<i>Components with critical values that require monitoring at the workplace:</i>			
Component:	CAS No:	WEL (Great Britain)	IOELV (European Union)
Calcium dihydroxide	1305-62-0	5 mg/m ³	5 mg/m ³
<i>Additional Occupational Exposure Limit Values for possible hazards during processing:</i>			
Chlorine	7782-50-5	1.5 mg/m ³	1.5 mg/m ³

Relevant DNELs of components of the mixture

Name of substance	CAS No	Threshold	Route of exposure	Used in	
Calcium dihydroxide	1305-62-0	1 mg/m ³	human inhalatory	Worker Industry	chronic - local effects
Calcium dihydroxide	1305-62-0	4 mg/m ³	human inhalatory	Worker Industry	chronic - local effects
Calcium Chloride	10043-52-4	5 mg/m ³	human inhalatory	Worker Industry	chronic - local effects
Calcium Chloride	10043-52-4	10 mg/m ³	human inhalatory	Worker Industry	chronic - local effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	Threshold	Environmental compartment
Calcium dihydroxide	1305-62-0	0.49 mg/l	freshwater
Calcium dihydroxide	1305-62-0	0.32 mg/l	marine water
Calcium dihydroxide	1305-62-0	3 mg/l	sewage treatment plant
Calcium dihydroxide	1305-62-0	1,080 mg/kg	soil

8. Exposure control/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures General ventilation

General measures General protective and hygienic measures
Keep away from foodstuffs, beverages and food.
Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin.
Wash hands during breaks and at the end of the work.

Personal protective equipment

Eye protection Tightly fitting safety goggles (EN166). Emergency eyewash stations must be available.

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

Material No information available

Thickness No information available

Breakthrough No information available
Check leak-tightness/impermeability prior to use.

Respiratory protection In case of inadequate ventilation wear respiratory protection.
Particulate filter device (EN 143).

Skin / body protection Protective work clothing.

Environmental exposure controls

General advice: Use appropriate container to avoid environmental contamination.
Keep away from drains, surface and ground water.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	granulate
Colour	white
Odour	like chlorine
pH (value)	not applicable
Melting point/freezing point	not applicable (spontaneous decomposition)
Boiling point and boiling range	not applicable
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	non-combustible
Vapour pressure	not applicable
Vapour density	not applicable
Bulk density	2 g/cm ³
Relative density	1 (water = 1)
Water solubility	200,000 mg/kg at 20 °C, not miscible in any proportion
Explosive properties	not explosive
Oxidising properties	oxidiser

9.2 Other Information

Self-Accelerating Decomposition Temperature: $\geq 180^{\circ}\text{C}$.

10. Stability and reactivity

10.1 Reactivity

Reactivity The mixture contains reactive substance(s).
Oxidising property.
If heated: slow decomposition of the material

10.2 Chemical stability

Chemical stability See below "Conditions to avoid".
Spontaneous decomposition of the material.

10.3 Possibility of hazardous reactions

Hazardous reactions: Risk of vigorous reaction, ignition and explosion in contact with combustible or flammable substances and reducing agents
Substances Contains Nitrogen: Explosive, Toxic substances.
Dangerous/dangerous reactions with: Acids.

10.4 Conditions to avoid

Conditions to avoid Keep away from heat, hot surfaces, open flames and other ignition sources.
Humidity. No smoking. High temperatures (>180°C)

10.5 Incompatible materials

Materials to avoid water, acids, reducing agents, Combustible materials, amine, ammonia (NH₃),
metallic oxides containing heavy metals
Release of toxic materials with: acids

10.6 Hazardous decomposition products

Haz. Decomp. Products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.
Hazardous combustion products: see section 5.
Oxygen.
Toxic substances: Chlorine, Hydrogen chloride (HCl).

11. Toxicological Information

11.1 Information on toxicological effects

LD/LC50 values that are relevant for classification:

Acute toxicity Shall not be classified as acutely toxic (dermal).
Harmful if swallowed.

Inhalation. Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification

Exposure route	Endpoint	Value		Species
Oral	LD50	790–1,260	mg/kg	Rat
Dermal	LD50	>2,000	mg/kg	Rabbit

Acute toxicity of components of the mixture

Exposure route	Endpoint	Value		Species	Method	Source
Calcium dihydroxide						1305-62-0
Oral	LD50	>2,000	mg/kg	rat	425*	ECHA
Dermal	LD50	>2,500	mg/kg	rabbit	402*	ECHA
calcium chloride						10043-52-4
Oral	LD50	>2,120	mg/kg	rat	401*	ECHA
Dermal	LD50	>5,000	mg/kg	rabbit		ECHA

* OECD Guideline

Trade Name: Pro-Cal Extra

Primary Irritant effect:

On the skin: Causes severe skin burns and eye damage.

On the eyes: Causes serious eye damage.

Skin sensitisation	Data lacking, inconclusive, or conclusive but not sufficient for classification.
Respiratory sensitisation	Data lacking, inconclusive, or conclusive but not sufficient for classification.
Germ cell mutagenicity	Data lacking, inconclusive, or conclusive but not sufficient for classification.
Carcinogenicity	Data lacking, inconclusive, or conclusive but not sufficient for classification.
Reproductive toxicity	Data lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity -

single exposure	Data lacking, inconclusive, or conclusive but not sufficient for classification.
repeated exposure	Data lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard Shall not be classified as presenting an aspiration hazard.

12. Ecological Information**12.1 Toxicity****Aquatic toxicity (acute)** Very toxic to aquatic organisms

Endpoint	Value	Species	Time
LC50	0.15 mg/l	fish	96 h
LC50	0.22 mg/l	fish	96 h

Acute toxicity (acute) of components of the mixture

Endpoint	Value	Species	Method	Source	
Calcium dihydroxide					1305-62-0
LC50	457 mg / l	three-spined stickleback		ECHA	96 h
EC50	49.1 mg / l	daphnia magna	202*	ECHA	48 h
ErC50	184.6 mg / l	algae	201*	ECHA	72 h
calcium chloride					10043-52-4
LC50	4,630 mg / l	fathead minnow		ECHA	96 h
LC50	2,400 mg / l	daphnia magna	202*	ECHA	48 h
EC50	2,900 mg / l	algae	201*	ECHA	72 h
ErC50	>4000 mg / l	algae	201*	ECHA	72 h

Aquatic toxicity (chronic) Test data are not available for the complete mixture.

Acute toxicity (chronic) of components of the mixture

Endpoint	Value	Species	Method	Source	
Calcium dihydroxide					1305-62-0
LC50	53.1 mg / l	Crustaceae		ECHA	14 d
EC50	300.4 mg / l	microorganisms	209*	ECHA	3 h
NOEC	32 mg / l	Crustaceae		ECHA	14 d
calcium chloride					10043-52-4
LC50	920 mg / l	daphnia magna		ECHA	21 d
EC50	610 mg / l	daphnia magna		ECHA	21 d

* OECD Guideline

12.2 Persistence and degradability

Persistence and degradability: No further relevant information available

Trade Name: Pro-Cal Extra

12.3 Bioaccumulative potential

Bioaccumulative potential: No further relevant information available

12.4 Mobility in soil

Mobility in soil: No further relevant information available

12.5 Results of PBT and PvB assessment

PBT and PvB assessment: Not applicable

12.6 Other adverse effects

Other adverse effects: No further relevant information available

Endocrine disrupting potential: No further relevant information available

Remarks: WGK (water hazard class): 2 Keep away from drains, surface and ground water

13. Disposal Considerations**13.1 Waste treatment methods**

Product: Disposal together with normal waste is not allowed. Special disposal is required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging: Empty contaminated packaging thoroughly. They can be re-cycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product

Waste Catalogue No: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information

Oxidising Agent



Corrosive



Marine Pollutant

14.1 UN Number	UN3487
14.2 UN proper shipping name	CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, CORROSIVE
14.3 Transport hazard class(es)	5.1 (OC2)+ 8
14.4 Packaging Group	II
14.5 Environmental hazards	Marine Pollutant
14.6 Special precautions for user	Warning: Oxidising substances
Kemler Number	58
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

Trade Name: Pro-Cal Extra

14. Transport Information

Other information

During the course of carriage, this product shall be shaded from direct sunlight and all sources of heat and be placed in Transport by post may be prohibited or restricted.

ADR

Excepted quantities (EQ): E2
 Limited quantities (LQ): 1kg
 Transport category: 2
 Tunnel restriction code: E

IMDG

Excepted quantities (EQ): E2
 Limited quantities (LQ): 1kg
 EMS Number F-H, S-Q
 Stowage Category D
 Segregation Group 8 - Hypochlorites.

ICAO

Special Provisions A8, A136
 Excepted quantities (EQ): E2
 Limited quantities (LQ): 2.5 kg

15. Regulatory information

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

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes)		Notes
		Lower	Upper	
p8	oxidising liquids and solids	50	200	*

*oxidising liquids, category 1, 2 or 3, or oxidising solids, category 1, 2 or 3

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water
- Other regulations, limitations and prohibitive regulations

The substance / components are listed in:

EINECS / ELINCS (Europa)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

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

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

Trade Name: Pro-Cal Extra

16. Other information

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

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

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.