

## Shock 'n' Floc

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

**1.1 Product Identifier**            Chemical: Shock 'n' Floc

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

Uses:                                    Disinfection and oxidiser for swimming pools

**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) 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 Category	Hazard Statements
Acute Tox	Category 4	H302
Skin Corr	Category 1B	H314
STOTSE	Category 3	H335
Aquatic Acute	Category 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:            H302            Harmful if swallowed.  
     H314            Causes severe skin burns and eye damage  
     H335            May cause respiratory irritation  
     H400            Very toxic to aquatic life  
     EUH031        Contact with acids liberates toxic gas

Precautionary statements: P405+102 Store locked up / Keep out of the reach of children  
     P280:            Wear protective gloves/protective clothing/eye protection/face protection  
     P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact  
     P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
     P308+313 If exposed or concerned. Get medical attention  
     P273            Avoid release to the environment

**Trade Name:** Shock 'n' Flocc

## 2. Hazard Identification

**2.3 Other Hazards** Marine pollutant

## 3. Composition/information on ingredients

### 3.1 Mixture

A mixture of the chemicals listed below with non-hazardous additions.

Chemical Name	CAS No:	EC No:	%	Index No	CLP Phrases
Calcium Hypochlorite	7778-54-3	231-908-7	25-50	017-012-00-7	H272-H302-H314-H400

## 4. First Aid measures

### 4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

In case of skin contact: Rinse skin with water/shower. If skin irritation or rash occurs, get medical advice/attention.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

If swallowed: Rinse mouth, do not induce vomiting - Get medical advice/attention

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Corrosive effects, respiratory disorders

Effects: Inhalation of decomposition products of calcium hypochlorite may cause lung oedema.

### 4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically

## 5. Fire fighting measures

### 5.1 Extinguishing media:

Suitable media: Water fog

Unsuitable media: DO NOT USE dry extinguishers containing ammonium compounds such as dry powder.

### 5.2 Special hazards arising from the substance or mixture

Specific Hazards: This product contains an ingredient (Calcium Hypochlorite) which is both a strong oxidiser and is chemically reactive with many substances. Strong oxidisers are capable

### 5.3 Advice for fire-fighters

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

Wear appropriate body protection (full protective suit).

Further Information: Use water to cool containers exposed to fire.

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

Personal Precautions: Use personal protective equipment. Keep people away from and upwind of spill. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. For personal protection see Section 8.

**6.2 Environmental precautions:**

Environmental precautions: Do not allow to enter public sewers and watercourses. Avoid subsoil penetration. If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

**6.3 Methods and materials for containment and cleaning up**

Cleaning up: Do not absorb spillage in sawdust or other combustible material. Ventilate area. Remove by mechanical means. Place in appropriate container. Seal containers and label them

**6.4 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: Keep away from heat and direct sunlight. Do not get in eyes, on skin, or on clothing. Do not mix with any other products. Do not mix with acid - toxic gas will be formed

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities.**

Storage areas and containers: Keep container tightly closed, in a cool, well ventilated place. Keep away from acid. Keep product, packaging clean and free from all contamination, including acids, organic materials, nitrogen containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidisers, all corrosive liquids, flammable or combustible materials.

**7.3 Specific end uses**

No information available.

**8. Exposure control/personal protection**

**8.1 Control parameters** No exposure limits have been set for this substance

**8.2 Exposure controls**

**Engineering measures** Use local exhaust ventilation to minimize dust and chlorine level where industrial use occurs. Otherwise ensure good general ventilation.

**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 appropriate clothing to prevent repeated or prolonged skin contact

Environmental exposure controls Dispose of in accordance with all applicable local and national regulations. Do not flush into surface water or sanitary sewer systems

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Form:	Granular
Colour:	White
Odour:	Chlorinous
pH @ 20°C:	10 -11
Specific gravity	1.9 g/cm <sup>3</sup>
Flash point:	n/a
Danger of explosion:	Product does not present an explosion hazard.
Water solubility:	Not known
Thermal decomposition:	180°C

**9.2 Other Information** No further information available

**10. Stability and reactivity****10.1 Reactivity**

Reactivity No information available

**10.2 Chemical stability**

Chemical stability Decomposes on heating (180°C)

**10.3 Possibility of hazardous reactions**

Hazardous reactions: Reacts with acids liberating toxic gas

**10.4 Conditions to avoid**

Conditions to avoid Do not store product above 52°C. Prevent ingress of humidity and moisture into

**10.5 Incompatible materials**

Materials to avoid Reacts with acids to produce free chlorine. Reducing agents. Incompatible with reducing agents

**10.6 Hazardous decomposition products**

Haz.decomp. products: Oxygen and chlorine

**11. Toxicological Information****11.1 Information on toxicological effects****Toxicity Values**

Route	Species	Test	Value	Units	Time
Inhalation	Rat	LC50	0.51	mg/l	4 hour
Dermal	Rabbit	LD50	>2000	mg/kg	
Oral	Rat	LD50	850	mg/kg	

**Primary Irritant effect:**

On the skin: Caustic effect on skin and mucous membranes  
On the eyes: Strong caustic effect

**Sensitization:**

No sensitizing effects known

**Inhalation**

Inhaled corrosive substances can lead to a toxic oedema of the lungs  
(Symptoms may be delayed)

**Ingestion**

Can cause damage to the digestive system

**Carcinogenic**

No evidence of carcinogenic effects

**Mutagenic**

No evidence of mutagenic effects

**Teratogenicity**

No evidence of reproductive effects

**Further Information:**

Avoid repeated exposure

**12. Ecological Information**

**12.1 Etoxicity (in water)**

**Acute Toxicity**

Species	Test	Time	Value	Units
Bluegill sunfish	LC50	96 hrs	0.088	mg / l
Rainbow Trout	LC50	96 hrs	0.16	mg / l
Daphnia Magna	LC50	48 hrs	0.11	mg / l
Bobwhite quail	LC/LD50	dietary	5,000	ppm
Mallard duck	LC/LD50	dietary	>5,000	mg / l

**12.2 Persistence and degradability**

Persistence and degradability No data available

**12.3 Bioaccumulative potential**

Bioaccumulative potential: Bioaccumulation is not expected

**12.4 Mobility in soil**

Mobility: Not expected to absorb on soil

**12.5 Results of PBT and PvB assessment**

PBT identification: Not classified vPvB substance: Non-classified PBT substance

**12.6 Other adverse effects**

Other adverse effects: Do not flush into surface water or sanitary water system

**13. Disposal Considerations**

**13.1 Waste treatment methods**

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment ,dispose to an authorised waste collection point

**Classification**

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is

**14. Transport Information**

**14.1 UN Number** 3487

**14.2 UN proper shipping name** UN3487 Calcium Hypochlorite Mixture, Hydrated Corrosive, 5.1 (8), PG II, (E),

**14.3 Transport hazard class(es)**

Class 5.1  
 Classification Code OC2  
 Hazard label 58  
 EMS Number: F-A, S-B  
 IMDG Label F-H, S-Q  
 Tunnel Code E  
 Special Marking Fish & Tree  
 LQ 1kg



**14.4 Packaging Group** II

**14.5 Environmental hazards**

Environmentally Hazardous Yes  
 Marine Pollutant Yes

**14.6 Special precautions for user** Warning: Corrosive substances

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** n/a

## 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 further information

## 16. Other information

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

H272 May intensify fire; oxidiser

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life

EUH031 Contact with acids liberates toxic gas

### Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

This information is believed to be accurate and represents the best information currently available to us. However, we make

█ Indicates updated section