

SAFETY DATA SHEET

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

1.1 Product Identifier Chemical: Shock 'n' Flocc

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

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 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 lenses, if present and easy to do. Continue rinsing
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

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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 EUH031

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. The effects may be delayed

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. Foam

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 of intensifying a fire once started; because of this any contamination of the product with other substances by spill or otherwise should be avoided.

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

Trade Name: Shock 'n' Floc

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/cm³
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 container or package. Keep away from heat and sources of ignition

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 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 3487

14.2 UN proper shipping name UN3487 Calcium Hypochlorite Mixture, Hydrated Corrosive, 5.1 (8), PG II, (E), MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS. LIMITED QUANTITY.

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

Trade Name: Shock 'n' Floc

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

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Rev 4

Indicates updated section