

**Shock Granules**

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

**1.1 Product Identifier**

Trade Name: Shock Granules

**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	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  
EUH031 Contact with acids liberates toxic gases  
Warning! Do not use together with other products. May release dangerous gases (chlorine)

**Precautionary statements:** P102 Keep out of reach of children  
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P309+P310 IF exposed or If you feel unwell : Call a POISON CENTER or doctor/physician.  
P405 Store locked up  
P501 Dispose of contents/container in accordance with national regulations.

**2. Hazard Identification**

**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.

**3. Composition/information on ingredients**

**3.1 Mixtures** Calcium Hypochlorite

Chemical Name	%	CAS No	ENICS No	R/H Phrases
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

Get medical advice/attention

**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:**

- In case of fire: use carbon dioxide for extinction
- DO NOT USE dry extinguishers containing ammonium compounds such as dry powder

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

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**

- Wear protective clothing as per section 8
- Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit
- In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion

## 6. Accidental release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- 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

- 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

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

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

- 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.

- Store away from other materials.
- Keep only in original container
- Store in a dry place and protect from moisture.
- Store in a well-ventilated place. Keep cool.
- Do not store above 35 °C
- Keep away from foodstuff.
- Keep away from acid and reducing agents

### 7.3 Specific end uses

- No information available

## 8. Exposure control/personal protection

### 8.1 Control parameters

Calcium hypochlorite - WEL (short term) 2 mg/m<sup>3</sup>

### 8.2 Exposure controls

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

#### Personal protective equipment

- In case of inadequate ventilation wear respiratory protection
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard EN 166.
- 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
- Boiling point - not known
- Vapour pressure - not applicable
- Vapour density - not applicable
- Melting point 180° C with decomposition
- Water solubility 217 g/l at 27 °C
- Specific gravity - not known
- Flash point - not known
- Strong oxidising agent
- Partition coefficient:n-Octanol/water - not known
- Evaporation rate -not known
- Viscosity - not applicable

### 9.2 Other Information

- No information available

## 10. Stability and reactivity

### 10.1 Reactivity

- Strong oxidising agent
- Use with other products may release Chlorine

### 10.2 Chemical stability

- Decomposes above 180 °C

### 10.3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas
- Exothermic reaction on heating

### 10.4 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
- Avoid contact with foodstuffs

### 10.5 Incompatible materials

- Reacts with acids to produce free chlorine
- Incompatible with reducing agents
- Incompatible with metals
- Incompatible with strong oxidizing substances
- Ammonia

### 10.6 Hazardous decomposition products

- Decomposition products may include acidic and toxic gases
- Decomposition products may include oxygen
- Decomposition products may include chlorine
- Decomposition products may include carbonoxides

**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.<br>- Causes delayed pulmonary oedema  |
| Contact with skin | - Causes blistering of the skin<br>- Causes redness and irritation<br>- Can cause damage to the mucous membranes  |
| Contact with eyes | - Causes redness and swelling<br>- Causes burning sensation<br>- Can cause damage to the eyes   |
| Ingestion         | - The ingestion of significant quantities may cause burning sensation<br>- 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 (bluegillsunfish) 0.088mg/l (96hr)
- LC50 (rainbowtrout) 0.16mg/l (96hr)
- EC50 (Daphniamagna) 0.116mg/l (48hr)

**12.2 Persistence and degradability**

Persistence and degradability - No information available

**12.3 Bioaccumulative potential**

Partition coefficient: - No information available

**12.4 Mobility in soil**

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

**12.5 Results of PBT and PvB assessment**

PBT identification: - 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 course
- This material and/or its container must be disposed of as hazardous waste
- Do not reuse empty containers without commercial cleaning or reconditioning

**Trade Name:** Shock Granules

### 13. Disposal Considerations

#### 13.1 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
<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>	See Section 7
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	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 data available

**16. Other information**

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

H272: May intensify fire; oxidizer.

H302: Harmful if swallowed.;

H314: Causes severe skin burns and eye damage.

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.

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## Aquasparkle Tablets

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

#### 1.1 Product Identifier

Trade Name: Aquasparkle Tablets

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

Uses: Coagulant for water treatment

#### 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 Category	Hazard Statements
	STOT SE3	H335
Eye Irritation	Category 2	H319
Skin Irritation	Category 2	H315

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: Warning

Hazard statements: H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection  
P401: Store locked up  
P101: If medical advice is needed, have product or label to hand.  
P102: Keep out of reach of children  
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing



## 2. Hazard Identification continued

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

P401 Store in accordance with local/national/ international regulations

P501 Dispose of contents / container in accordance with local/national/international regulations

#### Hazardous components which must be listed on the label

Aluminium Sulphate

**2.3 Other Hazards** No other information is available

## 3. Composition/information on ingredients

### 3.1 Mixture

Aluminium Sulphate

CAS No:	EC No:	%	CLP
10043-01-3	233-135 0	47-57%	H315:H319:H335

## 4. First Aid measures

### 4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If inhaled: Not normally applicable but as a precaution remove to fresh air and keep patient warm.

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation appears seek medical advice

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses.

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed , do not induce vomiting - seek medical advice.

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

Symptoms & effects: No further information available

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

Treatment Treat symptomatically  
No further information available

## 5. Fire fighting measures

### 5.1 Extinguishing media:

Suitable media: Will not burn, use media appropriate for surrounding material.

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

Specific Hazards : Thermal decomposition (>600°C) may liberate SO<sub>x</sub> fumes.

### 5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Further Information: Dispose of fire debris & contaminated fire fighting water in accordance with local regulations.

Collect fire fighting water separately. it must not enter drains.

**6. Accidental release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions: Use appropriate personal protective equipment as detailed in section 8.

**6.2 Environmental precautions**

Environmental precautions: Do not let product enter drains, contain the material and sweep up.

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

**on ground:** Flush with plenty of water, if possible neutralise with lime.

**on water:** Inform police and/or fire brigade and appropriate authority

**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: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Do not mix with other products in their concentrated form.

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. Avoid contact with the skin and eyes.

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

Storage : Prevent any seepage into the ground  
 Fire and explosion: No special measures required  
 Further information: Store in cool, dry conditions in well sealed receptacles  
 Common storage: Keep away from food, drink and animal feedstuffs.  
 Storage Temperature: No further information available

**7.3 Specific end uses** No information available

**8. Exposure control/personal protection**

**8.1 Control parameters**

Aluminium Sulphate	8 hr TWA	2	mg/m <sup>3</sup>
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**Exposure controls**

**Engineering measures** Engineering controls should be provided which maintain airborne concentrations as low as practicable

**Personal protective equipment**

Ventilation: No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that dusts are minimised.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

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 Tightly fitting safety goggles (EN166)

Skin and body protection: Acid resistant protective clothing

**Environmental exposure controls**

General advice: Do not flush into surface water or sanitary sewer systems. Avoid subsoil penetration.

## 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Form:	Solid
Colour:	White
Odour:	Insignificant
pH @ 20°C:	N/A
Melting point:	770°C
Boiling point:	N/A
Flash point:	N/A
Density @ 20°C:	1690
Water solubility:	Fully miscible

9.2 Other Information No further information available

## 10. Stability and reactivity

## 10.1 Reactivity

Reactivity Avoid contact with chlorite/hypochlorite/sulphite/oxidising agents & cyanides.

## 10.2 Chemical stability

Chemical stability No decomposition if stored and applied as directed

## 10.3 Possibility of hazardous reactions

Hazardous reactions Thermal decomposition (>600°C) may liberate SO<sub>x</sub> fumes.

## 10.4 Conditions to avoid

Conditions to avoid No information available

## 10.5 Incompatible materials

Materials to avoid Galvanised or aluminium surfaces

## 10.6 Hazardous decomposition products

Haz. Decomp. products: No information available

## 11. Toxicological Information

## 11.1 Information on toxicological effects

## Toxicity Values

Aluminium Sulphate				
Route	Species	Test	Value	Units
Oral	Rat	LD50	>5,000	mg/kg
Intraperitoneal	Mouse	LD50	6,207	mg/kg

## Primary Irritant effect

On the skin: Causes skin irritation and soreness

On the eye: Causes severe eye irritation.

**Carcinogenic** There is no evidence that this substance has any carcinogenic properties.

**Mutagenic** There is no evidence that this substance is mutagenic

**Sensitization:** No sensitizing effects known

## Additional toxicological information:

**If ingested** The ingestion of significant quantities may cause nausea/vomiting

**If inhaled** Irritating to mucous membranes and upper respiratory tract.

**12. Ecological Information****12.1 Toxicity**

Toxicity Expected to be harmful

**12.2 Persistence and degradability**

Persistence and degradability No data available

**12.3 Bioaccumulative potential**

Bioaccumulative potential No data available

**12.4 Mobility in soil**

Mobility in soil No data available

**12.5 Results of PBT and PvB assessment**

Results of PBT and PvB No data available

**12.6 Other adverse effects**

On contact with water, aluminium sulphate will hydrolyse to give dilute sulphuric acid and gelatinous aluminium hydroxide.

Discharge to the aquatic environment should be avoided since it may lead to localised adverse effects arising from the products physical properties. The clogging of tentacles, gills and filters of suspension feeders and the modification of the photosynthesis of algae and plankton may result from the presence of suspended particles and turbidity.

The product is an inorganic substance/preparation. During hydrolisation, a precepeate is formed of metal hydroxide in the pH range 5 to 7. Due to this reaction the pH in the water phase decreases, If phosphates are present, metal phosphate complex may form.

**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**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packaging Group**

Not applicable

**14.5 Environmental hazards**

Clean up even minor leaks or spills if possible without unnecessary risk

**14.6 Special precautions for user**

See Section 7

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

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

### 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 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.

### Abbreviations and acronyms:

GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances.
CAS:	Chemicals Abstracts Service (division of the American Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

█ Indicates updated section