

## SAFETY DATA SHEET

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

## 1.1 Product Identifier

Trade Name: Chlorine Granules

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

Uses: For disinfection of pool and spa 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 Category	Target Organs	Hazard Statements
Acute Tox. 4 *			H302
Eye Irrit. 2			H319
STOT SE 3			H335
STOT SE 3			H400
Aquatic Acute 1			H410
Aquatic Chronic 1			

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 toxicological information.  
Potential environmental effects: See section 12 for toxicological information.

## 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word: Warning

Hazard statements: H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH031 Contact with acid liberates toxic gas

Warning! Do not use together with other products. May release dangerous gases (chlorine)  
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## 2. Hazard Identification...cont

### Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children
P103	Read label before use
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P402	Store in a dry place.
P260	Do not breathe dust
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P405	Store locked up
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P273	Avoid release to the environment
P501	Dispose of contents/container in accordance with legislation

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

Sodium Dichloroisocyanurate Dihydrate

### 2.3 Other Hazards

PBT / vPvB: Not applicable

## 3. Composition/information on ingredients

### 3.1 Substances

Substance			
Chemical nature:	Granules		
Chemical Name	Sodium Dichloroisocyanurate Dihydrate,		
<b>CAS No</b>	<b>EC No</b>	<b>%</b>	<b>H &amp; S</b>
51580-86-0	220-767-7	100%	H302, H319, H335,H400,H410

## 4. First Aid measures

### 4.1 Description of first aid measures

General Advice:	Take off all contaminated clothing immediately.  Move to fresh air. Remove contaminated clothing and loosen remaining clothing. Keep at rest until fully recovered. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. Seek medical advice. In severe cases pulmonary oedema can be delayed by up to 48 hours.
If inhaled:	
In case of skin contact:	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention
In case of eye contact:	Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical attention
If swallowed:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

### 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.

## 5. Fire fighting measures

### 5.1 Extinguishing media:

Suitable media: Water spray or fog (large quantities available)

Unsuitable media: No information available

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

Specific Hazards : Oxidising agent. Not combustible, but will support combustion of other materials. Decomposes upon heating liberating chlorine and oxygen. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire.

### 5.3 Advice for fire-fighters

Protective equipment Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident.

Further Information: Collect contaminated fire extinguishing water separately.

## 6. Accidental release Measures

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

Personal Precautions: Use personal protective equipment. Provide adequate ventilation. For personal protection see section 8.

### 6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration  
If the product contaminates rivers and lakes or drains inform respective authorities  
Local authorities should be advised if significant spillages cannot be contained

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

Cleaning up Sweep up, avoiding generation of dust, then immediately spread as a thin layer in an uncontaminated, dry open area, to avoid the possibility of hot spots forming. Gradually hose to drain ensuring large dilution. DO NOT store or transport swept up material. DO NOT return spilled material to original container. Do not add small amount of water to material. Where a spill has occurred in a confined space or an unventilated building and the material is damp and evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread solid with soda ash. For large spills notify Emergency Services.

### 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: Strong oxidising agent. DO NOT MIX WITH OTHER CHEMICALS. Mix only with water. Never add water to product. Always add product to water. Use clean dry dispensing equipment. Avoid contact with skin and eyes.

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.

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## 7. Handling and storage

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

Storage Keep this product in original, sealed container when not in use. Store in a cool, dry, well-

Protection against fire: Normal measures for preventive fire protection

Further information Keep away from children

Common storage: Keep away from food, drink and animal feeding stuffs. Keep away from combustible

### 7.3 Specific end uses

Specific use(s) No information is available.

## 8. Exposure control/personal protection

### 8.1 Control parameters

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical,

Sodium Dichloroisocyanurate Dihydrate,		
State	8 hour TWA	15 min STEL
UK	1.5 mg/m <sup>3</sup>	2.9 mg/m <sup>3</sup>

### 8.2 Exposure controls

**Engineering measures** Fume cupboard required when vapours/aerosol are generated.  
Refer to protective measures listed in sections 7 and 8.

#### Personal protective equipment

Respiratory protection In case of brief exposure or low pollution use respiratory filter device Filter AB2P2. Filter AB2P3.  
In case of intensive or longer exposure use self- contained respiratory protective device

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.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form: Granules  
Colour: Whitish  
Odour: Characteristic chlorine

pH @ 20°C: 7.0 - 10% (aqueous solution)

Melting Point Not Applicable  
Boiling point/boiling range: Not Applicable  
Water solubility: 260 gm/litre @25 °C  
Partition coefficient:n-octanol/water: No data available  
Explosive properties: Product is not explosive.  
Oxidising properties: No data available

**9.2 Other Information** No further information

**Trade Name:** Chlorine Granules

## 10. Stability and reactivity

### 10.1 Reactivity

Reactivity No information available

### 10.2 Chemical stability

Chemical stability No information available

### 10.3 Possibility of hazardous reactions

Hazardous reactions Gives off hydrogen by reaction with metals. Reacts exothermic with water.

### 10.4 Conditions to avoid

Conditions to avoid Damp or slightly wet conditions may slowly liberate hazardous gases. (will gradually degenerate to Nitrogen Trichloride)

### 10.5 Incompatible materials

Materials to avoid Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidisable material such as organic compounds, reducing agents, Nitrogen

### 10.6 Hazardous decomposition products

Haz. Decomp. products: Decomposes above 240°C forming chlorine, nitrogen, trichloride, nitrogen oxides, carbon dioxide, cyanates and carbon monoxides.

## 11. Toxilogical Information

### 11.1 Information on toxilogical effects

#### Toxicity Values

Route	Species	Test	Value	Units
Oral	Rat	LD50	>1,400	mg/kg
Oral	Human	LD50	3,570	mg/kg

(lowest lethal dose)

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, ulceration of the stomach, lachrymation, difficulty in breathing, loss of consciousness, coma and possible death.

**Inhalation:** Inhalation of the dust will result in respiratory irritation. Decomposes when wet to evolve chlorine gas. Inhalation of chlorine will result in severe respiratory irritation. Delayed effects can include shortness of breath, severe headache, pulmonary oedema and pneumonia.

**Skin:** Contact with the skin will result in mild irritation. Repeat or prolonged skin contact may lead to allergic contact dermatitis.

**Eyes:** A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes; contact can cause corneal burns.

**Sensitisation:** No further information available

**Further information** No further information available

## 12. Ecological Information

### 12.1 Toxicity

#### Acute Toxicity

Highly toxic to aquatic life: DO NOT discharge into lakes, ponds or streams. DO NOT discharge into public waters

Species	Time	Test	Value	Units
Fish	96h	LC50	1,000	mg / l
Daphna magna	48h	LC50	1,000	mg / l

### 12.2 Persistence and degradability

Persistence and degradability No data available

**Trade Name:** Chlorine Granules

## 12. Ecological Information

### 12.3 Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate

### 12.4 Mobility in soil

Mobility in soil Soluble in water, predicted to have high mobility in soil.

### 12.5 Results of PBT and PvB assessment

PBT and PvB assessment No data available

### 12.6 Other adverse effects

Remarks: Harmful effects to aquatic organisms due to pH shift  
Neutralization is necessary before waste water is discharged into water treatment plants.

## 13. Disposal Considerations

### 13.1 Waste treatment methods

Product: Disposal together with normal waste is not allowed. Special disposal is required according

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

**14.1 UN Number** 3077

**14.2 UN proper shipping name** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (SODIUM DICHLOROISOCYANURATE DIHYDRATE)

### 14.3 Transport hazard class(es)

Class	9
Classification Code	M7
Hazard label	90
Transport Category	3
Tunnel Code	E

**14.4 Packaging Group** III

### 14.5 Environmental hazards

Environmentally Hazardous	Yes
Marine Pollutant	Yes

**14.6 Special precautions for user** Not applicable

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

**Trade Name:** Chlorine Granules

## 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

Currently we do not have any information from our supplier about this.

## 16. Other information

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

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

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.

**Rev 7**

Indicates updated section.