

Stabilised Chlorine Granules

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

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.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger

Hazard Symbol/Category of danger	Risk phrases
Harmful	R22
Irritant	R31
	R36/37
Dangerous for the environment	R50/53

For the full text of the R phrases 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

2. Hazard Identification...cont

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)
 Use biocides safely always read the label before use.

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+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove
 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

No other information is available.

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Granules
 Chemical Name Sodium Dichloroisocyanurate Dihydrate,

CAS No	EC No	%	H & S
51580-86-0	220-767-7	100%	H302, H319, H335,H400,H410 R22,R31,R36/37,R50/53

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: :
 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 skin contact:
 Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical attention

In case of eye contact:

4. First Aid measures

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: No further information available.

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

Unsuitable extinguishing media: Currently we do not have any information from our supplier about this.

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire fighting: 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

Special 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

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 the skin and the 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. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers:

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

Advice on protection against fire:

Normal measures for preventive fire protection

Further information on storage

Keep away from children

Advice on common storage:

Keep away from food, drink and animal feeding stuffs. Keep away from combustible material

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 ³	2.9 mg/m ³

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

10. Stability and reactivity

10.1 Reactivity No information available

10.2 Chemical stability No information available

10.3 Possibility of 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,

10.6 Hazardous decomposition products
 Hazardous decomposition products: Decomposes above 240°C forming chlorine, nitrogen, trichloride, nitrogen oxides, carbon dioxide, cyanates and carbon monoxides.

11. Toxicological Information

11.1 Information on toxicological 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.

11. Toxicological Information

11.1 Information on toxicological effects

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: Remarks 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 unless in accordance with consent to discharge orders.

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 No data available

12.3 Bioaccumulative potential Not expected to bioaccumulate

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

12.5 Results of 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 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

European 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

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.

| Indicates updated section.