Revision 12/12/16



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

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 Class	J	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:

Physical & Chemical Hazards:

Potential environmental effects:

See section 11 for toxicological information.

See section 9 for toxicological information.

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.

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)

(continued on Page 2)

Trade Name: **Chlorine Granules**

2. Hazard Identification...cont

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

Keep out of reach of children P102

P103 Read label before use

Wear protective gloves/protective clothing/eye protection/face protection. P280

Store in a dry place. P402 P260 Do not breathe dust

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

P405 Store locked up

P305+351+338: 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

Granules Chemical nature:

Chemical Name Sodium Dichloroisocyanurate Dihydrate,

CAS No EC No % H & S

51580-86-0 220-767-7 100% H302, H319, H335, H400, H410

4. First Aid measures

Description of first aid measures 4.1

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

If inhaled: 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.

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

Rinse continuously with water for several minutes. Remove contact lenses if present and In case of eye contact:

easy to do – continue rinsing. Get medical attention

Clean mouth with water and drink afterwards plenty of water. Never give anything If swallowed:

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

No further information available. Symptoms & Effects:

4.3 Indication of immediate medical attention and special treatment needed

Treat Symptomatically. Treatment

Trade Name: **Chlorine Granules**

5. Fire fighting measures

5.1 Extinguishing media:

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

No information available Unsuitable media:

5.2 Special hazards arising from the substance or mixture

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

Specific Hazards:

Fire-fighters should wear full protective clothing and self-contained breathing apparatus

(SCBA). Thoroughly decontaminate fire-fighting equipment including all fire fighting Protective equipment

wearing apparel after the incident.

Collect contaminated fire extinguishing water separately. Further Information:

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

Strong oxidising agent. DO NOT MIX WITH OTHER CHEMICALS. Mix only with water.

Advice on safe handling: Never add water to product. Always add product to water. Use clean dry dispensing

equipment. Avoid contact with skin and eyes.

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

Hygiene measures:

the work day. Take off all contaminated clothing immediately. Provide adequate

ventilation.

(continued on Page 4)

Trade Name: Chlorine Granules

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	State 8 hour TWA				
UK	1.5 mg/m³	2.9 mg/m³			

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 90/696/EEC and standard EN 274

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

Boiling point/boiling range:

Water solubility:

Partition coeffcient:n-octanol/water:

Explosive properties:

Product is not explosive.

Oxidising properties: No data available

9.2 Other InformationNo further information

10. Stability and reactivity

10.1 Reactivity

No information available Reactivity

10.2 Chemical stability

No information available Chemical stability

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

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

degenerate to Nitrogen Trichloride)

10.5 Incompatible materials

Avoid contact with water on concentrated material in the container. Avoid contact with Materials to avoid

easily oxidisable material such as organic compounds, reducing agents, Nitrogen

10.6 Hazardous decomposition products

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

dioxide, cyanates and carbon monoxides.

11. Toxilogical Information

11.1 Information on toxilogical effects

Toxicity Values

Inhalation:

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

(lowest lethal dose)

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, ulceration of the Ingestion:

stomach, lachrymation, difficulty in breathing, loss of consciousness, coma and possible

death.

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.

Contact with the skin will result in mild irritation. Repeat or prolonged skin contact may Skin:

lead to allergic contact dermatitis.

A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive Eyes:

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 / I
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 Bioaccumlative potential

Bioaccumlative 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

Harmful effects to aquatic organisms due to pH shift Remarks:

Neutralization is necessary before waste water is discharged into water treatment plants.

13. Disposal Considerations

13.1 Waste treatment methods

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

Empty contaminated packaging thoroughly. They can be re-cycled after thorough and

Contaminated packaging: proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same

manner as the product

No waste code according to the European Waste Catalogue can be assigned for this

Waste Catalogue No: 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

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. 14.2 UN proper shipping name

(SODIUM DICHLOROISOCYANURATE DIHYDRATE)

14.3 Transport hazard class(es)

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

14.4 Packaging Group Ш

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 no 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.