

# SAFETY DATA SHEET Revision 6

## **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: <u>sales@cpc-chemicals.co.uk</u>

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 371 2229084 (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

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 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:





GHS07 GHS09

Signal word: Warning

Hazard statements: H302 Harmful if swallowed.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acid liberates toxic gas

EUH026 Warning! Do not use together with other products. May release dangerous gases

(chlorine).

# 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 P260 Do not breathe dust

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

P402 Store in a dry place.

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 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

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

## 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.

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 easy to large of eye contact:

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

Treat Symptomatically.

**Chlorine Granules** Trade Name:

## 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

Oxidising agent. Not combustible, but will support combustion of other materials. Decomposes upon heating liberating chlorine and oxygen. Heating can cause expansion or decomposition Specific Hazards:

leading to violent rupture of containers. If safe to do so, remove containers from path of fire.

5.3 Advice for fire-fighters

Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA).

Thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel Protective equipment

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. Never add Advice on safe handling:

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 Hygiene measures:

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. 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-

ventilated area.

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 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, physical and biological agents

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

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 coeffcient: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

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

Avoid contact with water on concentrated material in the container. Avoid contact with easily

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

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. Toxicilogical Information

## 11.1 Information on toxilogical effects

**Toxicity Values** Sodium Dichloroisocyanurate Dihydrate,

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 of the dust will result in respiratory irritation. Decomposes when wet to evolve

**Inhalation:** 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 unless in accordance with consent to discharge orders.

Sodium Dichloroisocyanurate Dihydrate,

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

## 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

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

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.

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

Contaminated packaging: 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 product, as

Waste Catalogue No: 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

14.4 Packaging Group

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 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.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

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Indicates updated section.