

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

- **Trade Name:** Stabilised Chlorine Granules
- **Other names** Troclosene Sodium Dihydrate, Sodium Dichloroisocyanurate Dihydrate, Dichlor Granules
- **Intended use of chemical** For disinfection of pool and spa water
- **Manufacturer/Supplier** Complete Pool Controls Ltd, Unit 2, The Park, Stoke Orchard, Bishops Cleeve, Gloucestershire, GL52 7RS.
Tel: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083

2. Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description** 51580 - 86 - 0 Sodium Dichloroisocyanurate Dihydrate,

3. Hazard Identification

- **Hazard description**



Harmful



Dangerous for the environment

- **Hazard information concerning particular hazards for human and the environment**

- | | |
|--------|---|
| R22 | Harmful if swallowed. |
| R31 | Contact with acids liberates toxic gas. |
| R36/37 | Irritating to eyes and respiratory system. |
| R50/53 | Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment. |

4. First Aid measures

- **After inhalation:** Move to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume the most comfortable position and keep warm. 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.
- **After skin contact:** Wash thoroughly with plenty of water. Remove contaminated clothing and wash before reuse. If large area of skin is damaged or if irritation persists seek medical attention.
- **After eye contact:** Rinse opened eye for at least minutes under running water. Keep eye wide open while rinsing. Remove clothing if contaminated and wash skin. Urgently seek medical attention. Transport to hospital or medical centre.
- **After Ingestion:** Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place victims face downwards, head lower than hips to prevent vomit entering lungs. Transport to hospital or medical centre.

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5. Fire fighting measures

- **Special extinguishing media:** Water spray or fog (large quantities available)
- **Special exposure hazards in fire:** 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.
- **Special protective equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.

6. Accidental release Measures

- **Personal Protection** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.
- **Methods for cleaning:** To neutralise add sodium sulphate (2.4 kg/kg product). If no active chlorine remains, add soda ash (1.2kg/kg product) to effect complete neutralisation. Where a spill has occurred in a confined space or inadequately ventilated enclosure 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. Do NOT return spilled product to original container. DO not add small amounts of water to the product.

7. Handling and storage

- **Personal Protection** Do not breathe dust. Use only in well-ventilated areas. Ensure an eye bath and safety shower are available for use.
- **Storage** Keep this product in original, sealed container when not in use. Store in a cool, dry, well-ventilated area. Store away from combustible materials, any easily oxidisable matter, strong acids and alkali, oxidising agents and foodstuffs. Store away from sources of heat or ignition. Keep dry - reacts with water; may lead to drum rupture. check regularly for spills.

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8. Exposure control/personal protection

- **Exposure control limits and source:**

	8hr TWA		15min STEL		Authority
	ppm	mg/m ³	ppm	mg/m ³	
Chlorine	0.5	1.5	1	2.9	EH40

- **Hand Protection**

Wear suitable chemical resistant gloves when handling this product. Disposable nitrile gloves are suitable providing regular changes of gloves are made.

- **Eye Protection**

Wear appropriate safety goggles

- **Skin Protection**

Avoid prolonged contact with skin by wearing appropriate clothing.

9. Physical and chemical properties

- **Appearance at 20oC** White crystalline solid, granules
- **Odour** Chlorine
- **Formula** C₃H₄Cl₂N₃Na₀₅
- **Specific gravity at 20oC**
- **pH (conc)** 6.0 - 7.0 1% aqueous solution)
- **Melting Point** N/A
- **Flash Point** N/A
- **Solubility in water** 260 gm/litre @25 °C

10. Stability and reactivity

- **Conditions to avoid** Damp or slightly wet conditions may slowly liberate hazardous gases. (will gradually degenerate to Nitrogen Trichloride)
- **Materials to avoid** Stable under normal conditions
- **Hazardous decomposition products** Decomposes above 240°C forming chlorine, nitrogen trichloride, nitrogen oxides, carbon dioxide, cyanates and carbon monoxides

Trade Name: Stabilised Chlorine Granules**11. Toxicological Information**

- **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.
- **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.
- **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.
- **Toxicity**

Oral LD50 (Rat)	1400 mg/kg
Oral LLD (Human)	3570 mg/kg (lowest lethal dose)

12. Ecological Information

- **Mobility** Partially soluble in water.
- **Persistence and degradability** Highly toxic to aquatic life: **DO NOT** discharge into lakes, ponds or stream. **DO NOT** discharge into public waters unless in accordance with consent to discharge orders.

13. Disposal Considerations

- **Substance** Disposal should be in accordance with all official regulations and carried out via an approved disposal contractor. If material is dry, incineration is recommended
- **Container** As substance

14. Transport Information

- **U N No** Not allocated
- **Proper shipping name** Sodium Dichloroisocyanuric acid
- **Class/division** 9
- **Packing group** III
- **Hazard I D No** 90
- **EAC** 2Z
- **Pollutant** May be considered a marine pollutant

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15. Regulatory information

• Product Name	Stabilised Chlorine Granules	
• Symbol	Xn; N	
• Indications of danger	Harmful: Dangerous for the Environment	
• Risk phrases	R22	Harmful if swallowed.
	R31	Contact with acids liberates toxic gas.
	R36/37	Irritating to eyes and respiratory system.
• Safety phrases	S1/2	Keep locked up and out of reach of children
	S8	Keep container dry
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S41	In case of fire and/or explosion do not breathe fumes
	S60	This material and/or its container must be disposed of as hazardous waste
	S61	Avoid release to the environment. Refer to special instructions/Safety Data Sheet

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

