

Material Safety Data Sheet
According to 91/155 EEC

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

- **Trade Name:** Chlorine Tablets
- **Other names** Trichloroisocyanuric Acid. (TCCA)
- **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** Trichloroisocyanuric Acid 87-90-1
- **EINECS Number:** 201-782-8

3. Hazard Identification



Xn: Harmful



O: Oxidising



N: Dangerous for the environment

- | | |
|---|---|
| <p>R8
R22
R31
R36/37
R50/53</p> | <p>Contact with combustible material may cause fire.
Harmful if swallowed
Contact with acids liberates toxic gas.
Irritating to eyes and respiratory System.
Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment</p> |
|---|---|

4. First Aid measures

- **General Advice:** Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.
- **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 with plenty of cold water for a minimum of 15 minutes. If skin 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.

Trade Name: Stabilised Chlorine Tablets**5. Fire fighting measures**

- **Special extinguishing media:** Water (plenty) or CO₂ for escape purposes only.
- **Unsuitable extinguishing media:** DO NOT USE AMMONIUM COMPOUNDS AS NITROGEN : TRIOXIDE WILL BE FORMED. (EXPLOSIVE AND TOXIC)
- **Special exposure hazards in fire:** Non-flammable but thermally decomposes at above 225 °C. Decomposition liberates chlorine, Hypochlorous acid, Cyanuric acid. Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present as an explosion hazard.
- **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.

6. Accidental release Measures

- **Personal Protection** Use appropriate personal protective equipment as detailed in section 8
- **Methods for cleaning:** 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.



Trade Name: Stabilised Chlorine Tablets**7. Handling and storage**

- **Personal Protection** 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.
- **Storage** Keep this product in original, sealed container when not in use. Store in a cool, dry, well-ventilated area. Keep this product and all other chemicals out of reach of children.

8. Exposure control/personal protection• **Exposure control limits and source:**

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

- **Hand Protection** Wear suitable chemical resistant gloves
- **Eye Protection** Wear appropriate safety goggles
- **Skin Protection** Avoid contact with skin.
- **Respiratory Protection** Use respiratory protection for chlorine and dust inhalation protection.
- **General** General room ventilation plus local exhaust should be used to maintain exposure below TLV. Eyewash and emergency shower facilities recommended. Remove and wash contaminated clothing before reuse.

**9. Physical and chemical properties**

- **Appearance at 20°C** Solid white Tablet
- **Odour** Chlorine
- **pH (conc)** 2.8 (1% solution @ 25 °C)
- **Melting Point** 225 °C
- **Relative Density** 0.95 gm/cm³
- **Solubility in water** 10 – 13 g/l⁻¹ @ 25 °C

Trade Name: Stabilised Chlorine Tablets**10. Stability and reactivity**

- **Conditions to avoid** High temperature. Poor ventilation. Contamination.
- **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 containing compounds, Sodium or Calcium hypochlorite, other oxidisers, acids and alkalis.
- **Hazardous decomposition products** Chlorine containing gases can be produced. Gradually forms Nitrogen Trichloride in damp, moist conditions. (Explosive gas)

11. Toxicological Information

- **Inhalation** Harmful if inhaled.
- **Ingestion** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, convulsions and chemical burns.
- **Skin** This product is an irritant to the skin. Burns are induced when moisture is added.
- **Eyes** Corrosive to eyes; contact can cause corneal burns.
- **Toxicity** Oral LD50 490 mg/kg (rat)
This product is not listed as a carcinogen.

12. Ecological Information

- **Mobility** This product is toxic to fish and aquatic organisms. **DO NOT** discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans or their waters unless in accordance with the applicable regulatory requirements. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

13. Disposal Considerations

- **Substance** **DO NOT** put product, spilled product or filled or partially filled containers into the waste or waste compactor. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated product is regulated according to local and national disposal legislation.
- **Container** **DO NOT** re-use container. Rinse thoroughly before discarding.

Trade Name: Stabilised Chlorine Tablets**14. Transport Information**

• U N No	UN2468
• Proper shipping name	Trichloroisocyanuric Acid, dry
• Class/division	5.1
• Packing group	II
• Hazard I D No	50
• EAC	1W
• EPG	5A1
• Hazchem code	2PE

15. Regulatory information

• Product Name	Chlorine/Trichlor tablet 200g	
• Symbol	O; Xn; N	
• Indications of danger	Oxidising/Harmful/Dangerous for the environment	
• Risk phrases	R8	Contact with combustible material may cause fire.
	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
• 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 water and seek medical attention.
	S41	In case of fire and/or explosion DO NOT breathe fumes. This material and/or its container must be disposed of as hazardous waste.
	S60	hazardous waste.
	S61	Avoid release to the environment.

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.

