

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

1.1 Product Identifier trichloroisocyanuric acid / symclosene

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 Statements
Ox. Sol. 2	H272
Acute Tox. 4 *	H302
Eye Irrit. 2	H319
STOT SE 3	H335
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 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: Danger

H272	May intensify fire; oxidiser.
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.

Precautionary statements:

P102	Keep out of reach of children
P402	Store in a dry place.

(continued on Page 2)

2. Hazard Identification...cont

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P103	Read label before use.
P221	Take any precaution to avoid mixing with combustibles.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220	Keep/Store away from clothing/combustible materials
P305+351+338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

Hazardous components which must be listed on the label

Trichloroisocyanuric Acid

2.3 Other Hazards

No other information is available.

3. Composition/information on ingredients**3.1 Substances**

Chemical nature: Solid Index-No. 613-031-00-5

Chemical Name	CAS-No.	EC-No.	Index-No.	%	H & R
trichloroisocyanuric acid	87-90-1	201-782-8	613-031-00-5	75 - 100	H272/302/319/335/400/410/EUH031

4. First Aid measures**4.1 Description of first aid measures**

General Advice: Take off all contaminated clothing immediately.

If inhaled: : 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

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if necessary.

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 media: Water (plenty) or CO2 for escape purposes only.

Unsuitable media: DO NOT USE ammonium compounds as Nitrogen Trioxide will be formed (explosive and toxic)

5.2 Special hazards arising from the substance or mixture

Specific Hazards: Non-flammable but thermally decomposes at above 225 oC. 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.

5.3 Advice for fire-fighters

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.

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.

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

(continued on Page 4)

Trade Name: Chlorine Tablets 200g

7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities.

Fire Protection 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 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

TRICHLOROISOCYANURIC ACID		
State	8 hour TWA	15 min STEL
UK	10 mg/m ³	4 mg/m ³
UK	Total inhalable dust	Respirable dust

8.2 Exposure controls

Engineering measures Fume cupboard required when vapours/aerosol are generated.

Personal protective equipment

Respiratory protection Use respiratory protection for chlorine and dust inhalation protection.

Hand protection The glove material has to be impermeable to the product/the substance/preparation. Take note of the information given by the producer concerning permeability, break through times, and of any special working conditions (strain / contact) Protective gloves should be replaced at first sign of wear. Due to missing tests no recommendation to the glove material can be given.

Eye protection Tightly fitting safety goggles.

Skin and body protection Plastic apron, sleeves, boots-if handling large quantities

Environmental exposure controls

General advice: 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. Local authorities should be advised if significant spillages cannot be contained

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Tablets

Colour: Whitish

Odour: Characteristic chlorine

pH @ 20°C: 2.7 – 3.3 (1% aqueous solution 25°C)

Melting Point: 225°C

Density @ 20°C: 0.95 gm/cm³

Water solubility: 12 g/ 25 °C

Explosive properties: Product is not explosive.

Oxidising properties: No further information

9.2 Other Information

Decomposition temperature: 170 - 180°C

10. Stability and reactivity

10.1 Reactivity	No further information
10.2 Chemical stability	No further information
10.3 Possibility of hazardous reactions	Gives off hydrogen by reaction with metals. Reacts exothermic with water.
10.4 Conditions to avoid	High temperature. Poor ventilation. Contamination. Moisture/high humidity.
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 compounds, Sodium or Calcium hypochlorite, other oxidisers, acids and alkalis.
Materials to avoid	
10.6 Hazardous decomposition products	Chlorine containing gases can be produced. Gradually forms Nitrogen Trichloride in damp, moist conditions. (Explosive gas)
Hazardous decomposition products:	

11. Toxicological Information**11.1 Information on toxicological effects****Primary Irritant effect:**

On the skin: This product is an irritant to the skin. Burns are induced when moisture is added.
On the eyes: Corrosive to eyes; contact can cause corneal burns.

Sensitization:	No further information available
Carcinogenic	No further information available
Mutagenic	No further information available

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: . There may be irritation and redness. The eyes may water profusely
Ingestion: There may be nausea, vomiting, diarrhoea, abdominal pain, convulsions and chemical burns.
Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. Pulmonary oedema may occur up to 48 hours after exposure.

12. Ecological Information**12.1 Toxicity**

This product is toxic to fish and aquatic organisms.
Salts, acids and bases are typically diluted and neutralised when released to the environment in small doses.
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.

12.2 Persistence and degradability	Neutralised slowly by natural alkalinity.
12.3 Bioaccumulative potential	No further information available
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	Harmful effects to aquatic organisms due to pH shift Neutralization is normally 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	2468														
14.2 UN proper shipping name	TRICHLOROISOCYANURIC ACID, DRY														
14.3 Transport hazard class(es)	<table> <tr> <td>Class</td> <td>5.1</td> </tr> <tr> <td>ADR Classification</td> <td>E2</td> </tr> <tr> <td>RID Classification</td> <td>F-A : S-Q</td> </tr> <tr> <td>IMDG Classification</td> <td>E2</td> </tr> <tr> <td>Hazard label</td> <td>50</td> </tr> <tr> <td>Transport Category</td> <td>3</td> </tr> <tr> <td>Tunnel Code</td> <td>E</td> </tr> </table>	Class	5.1	ADR Classification	E2	RID Classification	F-A : S-Q	IMDG Classification	E2	Hazard label	50	Transport Category	3	Tunnel Code	E
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ADR Classification	E2														
RID Classification	F-A : S-Q														
IMDG Classification	E2														
Hazard label	50														
Transport Category	3														
Tunnel Code	E														
14.4 Packaging Group	II														
14.5 Environmental hazards															
Classification as environmentally hazardous according to 2.9.3 IMDG:	No														
14.6 Special precautions for user	See section 8														
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No further information														

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.**

Regulatory List	Notification	Notification No
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

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
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Further information

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

Rev 5

█ Indicates updated section.