

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

1.1 Product Identifier trichloroisocyanuric acid / symclosene

1.2 Relevant Identified uses and restrictions of the substance or mixture

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 H400

Aquatic Chronic1 H410

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

Hazard statements: H272 May intensify fire; oxidiser
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 acids liberates toxic gas.

Warning! Do not use together with other products. May release dangerous gases (chlorine).
Use biocides safely. Always read the label and product information before use.

Precautionary statements: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children
P221 Take any precaution to avoid mixing with combustibles
P402 Store in a dry place. (continued on Page 2)

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2. Hazard Identification

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Hazardous components which must be listed on the label

Trichloroisocyanuric Acid , copper sulphate and boric acid

2.3 Other Hazards No other information is available.

3. Composition/information on ingredients

3.2 Mixture

Chemical Name	CAS-No.	EC-No.	Index-No.	%	H & R
trichloroisocyanuric acid	87-90-1	201-782-8	613-031-00	75 - 100	H272/302/319/335/400/410/EUH031
Copper Sulphate	7758-98-7	231-847-6		0 - 5.1	H302 / 313 / 319 / 400 / 410
Boric Acid	10043-35-3	233-139-2		0 - 5.1	H360FD

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. Seek immediate medical advice. In case of unconsciousness place patient stably in side position for transportation
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.
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5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:	Powder or carbon dioxide
Unsuitable extinguishing media:	Foam or water

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire fighting:	In case of fire, the following can be released: Nitrogen oxides (NOx); Hydrogen chloride (HCl)
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5.3 Advice for fire-fighters

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. Collect contaminated fire extinguishing water separately.
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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

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.
Avoid contact with the skin and the eyes.

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.

Requirements for storage areas and containers: Keep this product in original, sealed container when not in use. Store in a cool, dry, well-ventilated area.

Advice on protection against fire: Normal measures for preventive fire protection

Further information on storage: Keep away from children

Advice on common storage: Do not store together with acids

7.3 Specific end uses

Specific use(s): No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Regulatory Basis: No value assigned for this product

8.2 Exposure controls

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

Personal protective equipment

Respiratory protection Use suitable respiratory protective device when high concentrations are present.
Filter P2 Filter P3

Hand protection Wear suitable chemical resistant gloves

Glove Material Nitrile Rubber - NBR: Butyl rubber - BR: PVC : Fluocarbon rubber (Viton)

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.

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

Reactivity No further information

10.2 Chemical stability

Chemical stability No further information

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 High temperature. Poor ventilation. Contamination. Moisture/high humidity.

10.5 Incompatible materials

Materials to avoid Strong exothermic reaction with acids. Reacts with flammable substances. Reacts with acids releasing chlorine. Reacts with reducing agents.

10.6 Hazardous decomposition products

Haz. Decomp. products: Nitrogen oxides (NOx): Chlorine

11. Toxicological Information**11.1 Information on toxicological effects****Toxicity Values**

Route	Species	Test	Value	Units
Oral	Rat	LD50	406	mg/kg

Primary Irritant effect:

On the skin: Powder may irritate skin after prolonged contact.

On the eyes: Particles in the eyes may cause irritation and smarting

Sensitization:

No sensitizing effects known

Carcinogenic

This product is not listed as a carcinogen

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****Acute Toxicity**

Species	Test	Test	Value	Units
Daphnia		EC50	0.2	mg / l
(Danio rerio (Zebrafish))		LC50	0.3	mg / l

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

Persistence and degradability Neutralised slowly by natural alkalinity.

12.3 Bioaccumulative potential

Bioaccumulative potential No further information available

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

Results of PBT and PvB No data available

12.6 Other adverse effects

Other adverse effects Harmful effects to aquatic organisms due to pH shift

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
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)			
Class	5.1		
Classification Code	5.1		
Hazard label	50		
Transport Category	O2		
Tunnel Code	E		
Excepted Quantities	E1		
Limited Quantities	1kg		
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.

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.
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.

(continued on Page 7)

Trade Name:	Multifunctional Chlorine Tablets 200g
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16. Other information

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 make

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■ Indicates updated section