

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

1.1 Product Identifier Top Tablet

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Shocking and sanitising

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
STOT SE 3	H335
Eye Irrit 2	H319
Aquatic Acute 1	H400
Aquatic Chronic 1	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 physicochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms: GHS03: Oxidising
Hazard pictograms: GHS07: Warning
GHS-09 Hazardous to the aquatic environment

Signal word: Danger

Hazard symbols:



Hazard statements: H272 May intensify fire; oxidiser
H302 Harmful if swallowed
H335 May cause respiratory irritation.
H319 Causes serious eye damage
H400 Very toxic to aquatic life
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)

[Cont...]

2. Hazard Identification

Precautionary statements: P261	Avoid breathing gas/mist/vapours/spray
P273:	Avoid release to the environment
P280:	Wear protective gloves/protective clothing/eye protection/face protection
P301+P310+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3 Other Hazards No other information is available

3. Composition/information on ingredients

3.1 Mixture Mixture of substances listed below with nonhazardous additions

CAS-No.	EC No	Index-No.	%	CLP Phrases
<i>trichloroisocyanuric acid</i>				
87-90-1	201-782-8	613-031-00-5	50 - 75	H272/302/319/335/400/410/EUH031
<i>sodium carbonate</i>				
497-19-8	207-838-8	011-005-00-2	10 - 20	H319
<i>aluminium sulphate</i>				
10043-01-3	233-135-0	-	3 - <5	H318; H315; H335
<i>Boric Acid</i>				
10043-35-3	233-139-2	-	1.0 - 2.5	H360FD
<i>Copper Sulphate</i>				
7758-98-7	231-847-6	-	0.5 - 1	H302 / 313 / 319 / 400 / 410

11113-50-1 boric acid, crude natural, containing not more than 85 per cent of H₃BO₃ calculated on the dry weight
For the wording of the listed risk phrases refer to section 16.

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

General Advice:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident
If Inhaled:	In case of accident by inhalation; remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact:	Wash off immediately with plenty of soap & water. Seek medical treatment
In case of eye contact:	Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Call a doctor immediately
If swallowed:	Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. Call for a doctor immediately

4.2 Most important symptoms and effects, both acute and delayed

See section 11 for more detailed information on health effects and Symptoms

4.3 Indication of immediate medical attention and special treatment needed

No information available

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Water, Water Spray, carbon dioxide
Unsuitable media: Extinguishing powder, Foam

5.2 Special hazards arising from the substance or mixture

Specific Hazards: Nitrogen oxides (NOx) ; Hydrogen chloride (HCl) ; Nitrogen trichloride ; Chlorine

5.3 Advice for fire-fighters

Protective equipment Wear self-contained respiratory protective device. Wear fully protective suit.
Mouth respiratory protective device

Further Information:

Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Avoid formation of dust. Ensure adequate ventilation. Mount respiratory protective device

6.2 Environmental precautions

Environmental precautions Keep contaminated washing water and dispose of appropriately.
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and materials for containment and cleaning up

Cleaning Up Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

other sections See Section 1 for emergency contact information
See Section 7 for information on Personal protective equipment
See section 13 for waste treatment information

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Store in cool, dry place in tightly closed receptacles. Provide suction extractors if dust is formed. Restrict the quantity stored at the work place. Do not refill residue into storage receptacles

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 areas : Store in cool, dry conditions
Containers Well sealed receptacles.
Fire and explosion: No further information available
Further information: Protect from humidity and water.
Common storage: Store away from acids.
Storage Temperature: Protect from heat and direct sunlight
Storage class 5.1 B

7.3 Specific end uses

No information available

8. Exposure control/personal protection

8.1 Control parameters No value assigned for this product

8.2 Exposure controls

General advice: Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Wash hands during breaks and at the end of the work. Use skin protection cream for preventive skin protection. Do not eat, drink or smoke while working.

Personal protective equipment

Respiratory protection Use suitable respiratory protective device when high concentrations are present. Filter AB2P2. / AB2P3
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self contained respiratory protective device.

Hand protection Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Suitable Material Nitrile rubber, NBR: Chloroprene rubber, CR: Butyl rubber, BR

Eye protection Tightly sealed safety goggles approved to standard EN 166. Provide eye station

Skin and body protection Protective clothing should be selected specifically for the work place.

General advice: General room ventilation plus local exhaust should be used to maintain exposure below

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form: Solid Tablets
Colour: Colourless
Odour: Like Chlorine

pH @ 20°C: 5.5 - 7.5
Melting point: 225-240 °C
Boiling point: Undetermined
Flash point: not applicable
Flammability (solid, gas) Product is not flammable
Water solubility: 12 g/l

Explosive properties: With ammonia.
With cyanuric acid and sodium hydroxide

Density at 20 °C ca. 2.5 g/cm³
Decomposition temperature 225 °C

9.2 Other Information Solids content: 100.0 %

10. Stability and reactivity**10.1 Reactivity**

Reactivity Contact with acids liberates toxic gas

10.2 Chemical stability

Chemical stability To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

Hazardous reactions: Reacts with oxidizing agents; strong alkalis; amines, flammable substances and reducing agents
Strong exothermic reaction with acids.
Reacts with acids releasing chlorine.

[Cont...]

Trade Name: Top Tablet

10. Stability and reactivity

10.4 Conditions to avoid

Conditions to avoid Heat

10.5 Incompatible materials

Materials to avoid No further relevant information

10.6 Hazardous decomposition products

Haz.decomp. products: Hydrogen chloride (HCl) ; Chlorine : Nitrogen oxides (NOx)

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity LD/LC50 values relevant for classification:

87-90-1 trichloroisocyanuric acid				
Route	Species	Test	Value	Units
Oral	Rat	LD50	406	mg/kg
7758-98-7 copper sulphate				
Oral	Rat	LD50	300	mg/kg
Dermal	Rat	LD50	> 2000	mg/kg

Primary irritant effect:

on the skin: No irritant effect

on the eye: Irritating effect

Sensitization: No sensitizing effects known.

Chronic toxicity No information available

Carcinogenicity No information available

Mutagenicity No information available

12. Ecological Information

12.1 Toxicity Very toxic for fish

trichloroisocyanuric acid		87-90-1	
Test	Species	Value	Units
LC50	Daphnia Magna	0.2	mg/kg
EC50	Danio rerio (Zebrafisch)	0.3	mg/kg
copper sulphate		7758-98-7	
LC50	Daphnia Magna	0.9	mg/l
EC50	Oncorhynchus mykiss (Regenbogenforelle)	0.5	mg/l

12.2 Persistence and degradability

Persistence and degradability No data available

12.3 Bioaccumulative potential

Bioaccumulative potential No data available

12.4 Mobility in soil

Mobility in soil No data available

12.5 Results of PBT and PvB :

PBT and PvB : No data available

[Cont...]

Trade Name: Top Tablet

12. Ecological Information

12.6 Other adverse effects

Other adverse effects Water hazard Class 2 (German Regulation) (self assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system
Must not reach sewage water or drainage ditch undiluted or underutilized
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton

13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment ,dispose to an authorised waste collection point

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

14. Transport Information

14.1 UN Number	UN1479
14.2 UN proper shipping name	1479 OXIDIZING SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID), ENVIRONMENTALLY HAZARDOUS
14.3 Transport hazard class(es)	
Class	5.1
Classification Code	2
Hazard label	50
Transport Category	2
Tunnel Code	E
Special Marking	Symbol (fish and tree)
EMS	F-A,S-Q
LQ	1 kg
14.4 Packaging Group	II
14.5 Environmental hazards	
Environmentally Hazardous	Yes
Marine Pollutant	Yes
14.6 Special precautions for user	Warning: Oxidising substances
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

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

No information available

16. Other information

Relevant Phrases

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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Further information

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

Rev 2

Indicates updated section