

## SAFETY DATA SHEET

**1. Identification of the substance/preparation and of the company/undertaking****1.1 Product Identifier**

Trade Name: Sodium Hypochlorite Solution 5 - 20%

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

Uses: Disinfection of Swimming Pool 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](mailto: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**

Met. Corr 1	H290
Skin Corrosion 1B	H314
Acute Aquatic 1	H400
Aquatic Chronic	H411

For the full text of the H statements mentioned in this section see Section 16.

**Human health**

Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. Corrosive to skin and eyes.

**Environment**

The product contains a substance which is very toxic to aquatic organisms.

**Physical and Chemical Hazards**

Contact with acids liberates toxic chlorine gas Product may be corrosive to some metals

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**Hazard statements: EUH031 Contact with acids liberates toxic gas.  
H290 May be corrosive to metals  
H314 Causes severe skin burns and eye damage  
H400 Very toxic to aquatic life.

Signal word: Danger

Hazard pictograms: GHS05: Corrosion  
GHS09: Environmental

**2. Hazard Identification**

## Precautionary statements:

- P273: Avoid release to the environment  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
 P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 P310: Immediately call a POISON CENTER or doctor/physician.  
 P403+235: Store in a well-ventilated place. Keep cool.

## Supplementary Precautionary Statements:

- P260: Do not breathe vapours  
 P264: Wash contaminated skin thoroughly after handling.  
 P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
 P363 : Wash contaminated clothing before reuse.  
 P390: Absorb spillage to prevent material damage.  
 P391: Collect spillage.  
 P405: Store locked up.  
 P406: Store in corrosive resistant/... container with a resistant inner liner.

**2.3 Other Hazards****3. Composition/information on ingredients****3.1 Mixture**

EINECS	CAS	CLP Classification	Percent
SODIUM HYDROXIDE			
215-185-5	1310-73-2	Met.Corr.1: H290; Skin Corr. 1A: H314; Eye Dam. 1: H318	0.1-1.0%
SODIUM HYPOCHLORITE			
EINECS	CAS	PBT / WEL	CLP Classification
231-668-3	7681-52-9	-	Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; -: EUH031
			Percent
			5-20%

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

General information Get medical attention immediately!

Inhalation: Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary.

Ingestion: Do not induce vomiting. If confined to the mouth, rinse mouth thoroughly and ensure water is not swallowed. If swallowed, drink plenty of water. If substance has been swallowed, give water to drink immediately

Eye contact: Check for and remove any contact lenses. Open eyes wide apart. Rinse opened eye with plenty of water for at least 15 minutes. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects: No information available.

**4.3 Indication of immediate medical attention and special treatment needed**

Treatment Treat symptomatically

**5. Fire fighting measures****5.1 Extinguishing media:**

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

**5.2 Special hazards arising from the substance or mixture**

Haz. comp. products: Thermal decomposition will evolve Chlorine. Contact with heavy metals, their compounds and alloys the product decomposes with evolution of oxygen.

**5.3 Advice for fire-fighters**

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. Accidental release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet.

**6.2 Environmental precautions**

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3 Methods and materials for containment and cleaning up**

Clean-up procedures: Flush away small spillages with plenty of water. Large Spillages: Absorb with sand or other inert absorbent. Pick up with vacuum or absorbent solid, store in closed container for disposal. container for disposal by an appropriate method.

**6.4 Reference to other sections**

Refer to section 8 of SDS for personal protection details.

**7. Handling and storage****7.1 Precautions for safe handling**

Handling requirements Avoid contact with eyes. Handle with care as an alkaline material. Wear appropriate protective clothing. Avoid inhalation of vapours and spray mists. Do not mix with acids, or other cleaning fluids (especially ammonia). Do not mix with sodium bisulfite

**7.2 Conditions for safe storage, including any incompatibilities.**

Storage conditions: Unsuitable containers: metals. Store in vented vessels of rubber lined mild steel or HDPE.

Uncontrolled pressure build up may occur in closed systems (vessels, pipes etc.) so all containers must have a venting device. Sludge may build up in tanks over time, due to salt deposition. Keep away from acids, ammonia solutions, amines and methanol. Keep away from heat and direct sunlight.

**7.3 Specific end uses**

Specific use(s) No information available

**8. Exposure control/personal protection****8.1 Control parameters**

Hazardous ingredients: SODIUM HYDROXIDE

Workplace exposure limits: Respirable dust

State	8 hour TWA	15 min.STEL	8 hour TWA	15 min.STEL
UK	-	2 mg/m <sup>3</sup>	-	-

[Cont...]

**8. Exposure control/personal protection****8.2 Exposure controls**

Process conditions	Provide eyewash station.
Engineering measures	Provide adequate general and local exhaust ventilation
Respiratory protection	Self-contained breathing apparatus must be available in case of emergency.
Hand protection	For respirator use cartridge type P3 SL
Eye protection	Tightly fitting safety goggles / face shield.
Skin protection	Plastic apron, sleeves, boots - if handling large quantities, full body suit.

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

State:	Liquid	
Colour:	Yellow-green	
Odour:	Irritating. Chlorine	
Solubility in water:	Soluble	
Initial boiling point and boiling range:	110°C	Decomposes with heat
Melting point/range°C:	-17°C	
Relative density:	5% 1.10	
	15% 1.26	
	20%	
pH:	>13	

**9.2 Other Information** No data available

**10. Stability and reactivity****10.1 Reactivity**

Reactivity Violent reaction with acids: Sodium bisulfite

**10.2 Chemical stability**

Chemical stability Avoid contact with acids

**10.3 Possibility of hazardous reactions**

Hazardous reactions: Contact with acids liberates toxic chlorine gas. Reacts with amines and ammonia to form explosive compounds, and can react violently with methanol. Reacts strongly with sodium bisulfite

**10.4 Conditions to avoid**

Conditions to avoid Store in a cool dry place away from direct sunlight.

**10.5 Incompatible materials**

Materials to avoid Contact with acids liberates toxic chlorine gas. Decomposition with evolution of oxygen is accelerated by heat and light, and also by contact with metals, particularly copper, nickel, iron and monel.

**10.6 Hazardous decomposition products**

Haz. decomp. products: Thermal decomposition will evolve toxic vapours.

Trade Name: Ultra Low Bromide Sodium Hypochlorite

## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Toxic Dose:

Oral	Rat	LD50	>1200	mg/kg
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#### Acute toxicity:

Dermal	Rat	LD50	>2000	mg/kg
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Skin Corrosion/Irritation: Corrosive

Sensitivity: Not Sensitising.

Germ cell mutagenicity: This substance has no evidence of mutagenic properties.

Carcinogenicity: This substance has no evidence of carcinogenic properties.

#### Symptoms / routes of exposure

Inhalation Mist/droplets are corrosive to the respiratory tract, and will cause a burning sensation in the throat, coughing and breathing difficulties.

Ingestion If ingested will cause severe damage to gastrointestinal tract.

Skin contact Causes burns. Prolonged or repeated contact may cause dermatitis

Eye contact Risk of serious damage to eyes. Risk of corneal damage.

## 12. Ecological Information

### 12.1 Toxicity

Species	Test	Value	Units	Comment
Fish	96H LC50	0.01 - 0.1	mg/l	active chlorine
Daphnia	48H EC50	0.01 - 0.1	mg/l	
Algae	72H IC50		mg/l	Technically unfeasible

#### Acute Toxicity

Microorganisms	LOEC	0.375	mg/l	Activated sludge
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### 12.2 Persistence and degradability

Persistence and degradability: The product quickly decomposes in water or soil

### 12.3 Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential

### 12.4 Mobility in soil

Mobility: The product is soluble in water.

### 12.5 Results of PBT and PvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance

### 12.6 Other adverse effects

Other adverse effects Toxic to aquatic organisms.

## 13. Disposal Considerations

### 13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Collect in marked containers and deliver to approved depot. Contaminated area should be washed with large amounts of water.

Trade Name: Ultra Low Bromide Sodium Hypochlorite

#### 14. Transport Information

##### 14.1 UN Number

UN Number UN1791

##### 14.2 UN proper shipping name

Shipping Name: HYPOCHLORITE SOLUTION



##### 14.3 Transport hazard class(es)

Transport class: 8

##### 14.4 Packing Group

Packing Group II or III below 10%



##### 14.5 Environmental hazards

Environmentally hazardous: Yes  
Marine pollutant: Yes

##### 14.6 Special precautions for user

Emergency Action Code: 2X  
Tunnel code: E  
EMS: F-A, S-B  
Hazard No (ADR): 80

##### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not applicable

#### 15. Regulatory information

##### 15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

EU Legislation

This product has been approved as a chemical used for the treatment of drinking water, under the appropriate BS EN Standard (see Sales Specification), and so it is also approved by the British Drinking Water Inspectorate. Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Directive 98/8/EC of the European Parliament and of the Council of 16 February 1998 concerning the placing of biocidal products on the market.

##### Water hazard classification

WGK 2

##### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

#### 16. Other information

Hazard Statements: H318 Causes serious eye damage  
H314 Causes severe skin burns and eye damage  
EUH031 Contact with acids liberates toxic gas.  
H290 May be corrosive to metals  
H411 Toxic to aquatic life with longlasting effects  
H400 Very toxic to aquatic life.

[Cont..]

**Trade Name:** Ultra Low Bromide Sodium Hypochlorite

#### **16. Other information**

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.