

SAFETY DATA SHEET
Revision 4

Sodium Hypochlorite - 10/11%

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

1.1 Product Identifier

Trade Name: Sodium Hypochlorite - 10/11%

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

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 3712 229084 (Outside office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class

Skin Corrosion 1B H314
Acute Aquatic toxicity 1 H400

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 statements: EUH031 Contact with acids liberates toxic gas.
H314 Causes severe skin burns and eye damage
H400 Very toxic to aquatic life.

Signal word: Danger

Hazard pictograms: GHS05: Corrosion
GHS09: Environmental



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+330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Trade Name: Sodium Hypochlorite 10/11%

2. Hazard Identification

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

P305+351+338: IF IN EYES: Rinse continuously 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 Substances

SODIUM HYPOCHLORITE SOLUTION CL ACTIVE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-668-3	7681-52-9	-	Skin Corr. 1B: H314; Aquatic Acute 1: H400; -: EUH031	>=10 - <=15

Registration No: 01-2119488154-34-xxxx

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately

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. If irritation appears seek medical advice

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

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice. If a person vomits when lying on his back place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of immediate medical attention and special treatment needed

Treatment No information available

5. Fire fighting measures

5.1 Extinguishing media:

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes. In combustion emits toxic fumes of hydrogen chloride / phosgene.

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: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details.

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

Cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders)
Containment: Keep in suitable closed containers for disposal.
Further Information: Treat recovered material as described in the section 'Disposal considerations'

6.4 Reference to 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: Do not keep the container sealed. Handle and open container with care. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

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: Keep in an area equipped with alkali resistant flooring.

Containers: Keep only in the original container. Store in a receptacle equipped with a vent.

Protection against fire : The product is not flammable. Normal measures for preventative fire protection.

Further information: Keep in a well-ventilated place. Protect against light. Store in a cool place. Do not keep the container sealed.

Common storage: Keep away from food, drink and animal feedstuffs. Do not store together with acids and ammonium salts.

German storage class: 8B: Non combustible substances, corrosive

7.3 Specific end uses

Specific use(s) No information available

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

Hazardous ingredients:

Chlorine

Workplace exposure limits: Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL	Remark
UK - WEL	-	1.5 mg/m ³	-	0.5ppm	
EU - ELV	-	1.5 mg/m ³	-	0.5ppm	Indicative

DNEL/PNEC. No data available

8.2 Exposure controls**Engineering measures** Refer to protective measures listed in sections 7 and 8**Personal protective equipment**

Respiratory protection Use respirator with appropriate filter if vapours or aerosol are released

Recommended Filter type: Combination filter: B-P2

Combination filter: B-P3

Hand protection

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

Take note of the information given by the producer concerning permeability, break through times, and of special and of special working conditions (mechanical strain, duration of contact).

Protective gloves should be replaced at first sign of wear.

Material:	Gloves	Thickness
butyl rubber	8h	0.5mm
Polyvinylchloride	8h	0.5mm
Polychloroprene	8h	0.5mm

Eye protection

Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection

alkali resistant protective clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems

Avoid subsoil penetration

If the product contaminates rivers and lakes or drains inform respective authorities.

If the product reaches soil inform respective authorities.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**Form: Liquid
Colour: Yellowish Green
Odour: Slight chlorinepH @ 20°C: >11
Melting point: -17 ° C
Flash point: not applicable
Flammability (solid, gas) does not ignite
Upper explosion limit: not applicable
Lower explosion limit: not applicable
Water solubility: Completely soluble
Ignition temperature: not applicable
Thermal decomposition: To avoid thermal decomposition do not overheat
Explosive properties: Not explosive**9.2 Other Information**

No further information available

Trade Name: Sodium Hypochlorite 10/11%

10. Stability and reactivity

10.1 Reactivity

Reactivity Contact with acids liberates toxic gas

10.2 Chemical stability

Chemical stability Decomposes on heating and exposure to light

10.3 Possibility of hazardous reactions

Hazardous reactions: May develop chlorine if mixed with acidic solutions

10.4 Conditions to avoid

Conditions to avoid Heat

10.5 Incompatible materials

Materials to avoid Ammonium compounds Amines. Nickel. Organic materials. Copper. Metal salts Acetic anhydride Hydrogen peroxide

10.6 Hazardous decomposition products

Haz. Decomp. products: Hydrogen chloride gas; Chlorine;Chlorine oxides

11. Toxicological Information

11.1 Information on toxicological effects

Sodium Hypochlorite Solution 10-15%		7681-52-9		
Route	Species	Test	Value	Units
ORAL	RAT	LD50	>2,000	mg/kg
DERMAL	RBT	LD50	>2,000	mg/kg

Relevant effects for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
Eye contact: Corneal burns may occur. May cause permanent damage.
Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.
Other relevant toxicity: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach

12. Ecological Information

12.1 Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Pimephales promelas	96H LC50	0.22-0.62	mg/l
Daphnia magna	96H ErC50	2.1	mg/l
GREEN ALGA (Selenastrum capricornutum)	48H EC50	28	mg/l

12.2 Persistence and degradability

Persistence and degradability: The methods for determining the biological degradability are not applicable to inorganic substances

12. Ecological Information

12.3 Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential

12.4 Mobility in soil

Mobility: The product is mobile in water environment, readily absorbed into soil.

12.5 Results of PBT and PvB

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

12.6 Other adverse effects

Other adverse effects All numerical values for ecotoxicity effects are calculated on the pure substances.
Do not flush into surface water or sanitary water system

13. Disposal Considerations

13.1 Waste treatment methods

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging: Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are 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

UN Number UN1791

14.2 UN proper shipping name

Shipping Name: HYPOCHLORITE SOLUTION
(SODIUM HYPOCHLORITE SOLUTION)

14.3 Transport hazard class(es)

Transport class: 8

14.4 Packing Group

Packing Group III

14.5 Environmental hazards

Environmentally hazardous: Yes
Marine pollutant: Yes

14.6 Special precautions for user

Special precautions: No special precautions.
Tunnel code: E
Transport category: 3

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

Transport in bulk: Not applicable

Trade Name: Sodium Hypochlorite 10/11%

15. Regulatory information

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

15.2 Chemical Safety Assessment

No information available

16. Other information

Full text of H-statements referred to under sections 2 and 3

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life

EUH031 Contact with acids liberates toxic gas.

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.

Indicates updated section.