



SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: **Sodium Hypochlorite**
Datasheet Number: SP001 1.3.0
Product Part Number: SP001
Chemical Name: Sodium hypochlorite, solution 10-15% Cl active

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

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Total Pool Chemicals Ltd
Address of Supplier: Unit 1, Pool Bank Business Park
High Street, Tarvin
Chester CH3 8JH
UK
Telephone: +44 (0)1829 740290
Fax: +44 (0)1829 741855
Responsible Person: Steve Carder
Email: sales@totalpool.co.uk

1.4 Emergency telephone number

+44 (0)1829 740290 (Office Hours)

2 Hazards identification**2.1 Classification of the substance or mixture**

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Skin Corr. 1B, H314
- Aquatic Acute 1, H400
- EUH031
- Classification (67/548/EEC, 1999/45/EC)
- C: R34
- R31
- N; R50
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

- Signal Word: Danger
 - Symbols: GHS05, GHS09
-



2 Hazards identification (....)

Hazard phrases

- Causes severe skin burns and eye damage.
- Very toxic to aquatic life.
- Contact with acids liberates toxic gas.

Precautionary Phrases

- Store locked up/Keep out of reach of children.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Avoid release to the environment.

2.3 Other hazards

- Marine pollutant

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols	Index No.
Sodium Hypochlorite solution 10-15% Cl active	10-15%	7681-52-9	231-668-3	H314, H400 EUH031 R31, R34, R50	GHS05, GHS09 C, N	017-011-00-1

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Causes burns.

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically



5 Fire-fighting measures

- 5.1 Extinguishing media
 - In case of fire: use water, foam or dry agent for extinction
- 5.2 Special hazards arising from the substance or mixture
 - See Section 10.6
- 5.3 Advice for firefighters
 - Wear protective clothing as per section 8

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - Wear protective clothing as per section 8
 - Evacuate the area
- 6.2 Environmental Precautions
 - Do not allow to enter public sewers and watercourses
- 6.3 Methods and material for containment and cleaning up
 - Absorb spillage in suitable inert material
 - Place in sealable container
 - Flush spill area with copious amounts of water
- 6.4 Reference to other sections
 - See Section 7 & 8

7 Handling and storage

- 7.1 Precautions for safe handling
 - Ensure adequate ventilation
 - Do not eat, drink or smoke when using this product.
- 7.2 Conditions for safe storage, including any incompatibilities
 - Store in a dry place. Store in a closed container.
 - Keep in vented containers
 - Store in a well-ventilated place.
 - Store away from other materials.
- 7.3 Specific end use(s)
 - No information available.

8 Exposure controls/personal protection

- 8.1 Control parameters
 - WEL (short term) (Chlorine) 1.5 mg/m³
 - WEL (short term) (Chlorine) 0.5 ppm
- 8.2 Exposure controls
 - Engineering controls should be provided to prevent the need for ventilation



8 Exposure controls/personal protection (....)

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear PVC gloves
- Wear goggles giving complete eye protection



Respirator



Goggles



Gloves

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: chlorine
- Appearance: green, yellow, Liquid
- pH >13
- Boiling point - not applicable
- Vapour pressure - not applicable
- Vapour density - not applicable
- Melting point - not applicable
- Water solubility - not known
- Specific gravity 1.2-1.3 g/cm³
- Not flammable
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9.2 Other information

- No information available

10 Stability and reactivity

10.1 Reactivity

- No decomposition if stored normally.

10.2 Chemical stability

- No decomposition if stored normally.

10.3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas.

10.4 Conditions to avoid

- Avoid overheating
- Keep away from frost

10.5 Incompatible materials

- Contact with acids liberates toxic gas.
- Contact with metals liberates flammable gas



10 Stability and reactivity (....)

- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products include chlorine.
- Decomposition products may include hydrogen chloride
- Decomposition products may include hydrogen

11 Toxicological information

11.1 Information on toxicological effects

- Can cause damage to the lungs
- Causes irritation

Inhalation

- Causes breathing difficulty
- Can cause damage to the respiratory system

Contact with skin

- In cases of severe exposure, burning sensation may develop
- Can cause damage to the skin

Contact with eyes

- Can cause damage to the eyes

Ingestion

- The ingestion of significant quantities may cause damage to digestive system
- Can cause soreness and redness of the mouth and throat.

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No evidence of reproductive effects

Mutagenicity

- No evidence of mutagenic effects

12 Ecological information

12.1 Toxicity

- Very toxic to aquatic life.
- LC50 (fish) 0.01-0.1 mg/l (96 hr)

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- Completely soluble in water



12 Ecological information (....)

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- No information available

13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

14 Transport information



Corrosive

14.1 UN Number

1791

14.2 UN Proper Shipping Name

Hypochlorite Solution

14.3 Transport hazard class(es)

8

14.4 Packing group

III

14.5 Environmental hazards

- Marine pollutant

14.6 Special precautions for user

- See Section 7

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

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	Hypochlorite Solution	ADR UN No.:	1791
ADR Hazard Class:	8	ADR Packing Group:	III
Tunnel Code:	E		



14 Transport information (....)

Sea (IMDG)

Proper Shipping Name:	Hypochlorite Solution	IMDG UN No.:	1791
IMDG Hazard Class.:	8	IMDG Pack Group.:	III

Air (ICAO/IATA)

Proper Shipping Name:	Hypochlorite Solution	ICAO Un No.:	1791
ICAO Hazard Class.:	8	ICAO Packing Group.:	III

15 Regulatory information

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

- Refer to current ADR Regulations
- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

15.2 Chemical Safety Assessment

16 Other information

Text of R and S phrase codes used in this safety data sheet:- EUH031: Contact with acids liberates toxic gas.; H314: Causes severe skin burns and eye damage.; H400: Very toxic to aquatic life.; R31: Contact with acids liberates toxic gas; R34: Causes burns; R50: Very toxic to aquatic organisms.

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.