

Material Safety Data Sheet
According to 91/155 EEC

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

- **Trade Name:** Sodium Hypochlorite - 10/11%
- **Other names** Liquid Shock
- **Intended use of chemical** Disinfection of swimming pool water.
- **Manufacturer/Supplier** Complete Pool Controls Ltd, Unit 2, The Park, Stoke Orchard, Bishops Cleeve, Gloucestershire, GL52 7RS.
Tel: +44 (0) 8712 229081
Fax: +44 (0) 8712 229083

2. Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description** 7681-52-9 Sodium Hypochlorite - 10/11%
- **EINECS Number:** 231-668-3

3. Hazard Identification

• **Hazard description**



C: Corrosive

• **Hazard Information concerning particular hazards for human and the environment**

- R31 Contact with acids liberates toxic gas.
- R34 Causes burns

4. First Aid measures

- **After inhalation:** Provide fresh air, warmth and rest, preferably in a comfortable sitting position. Get professional medical attention if any discomfort continues.
- **After skin contact:** Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get professional medical attention if irritation persists after washing.
- **After eye contact:** Rinse the eye immediately with water. Continue to rinse for at least 15 minutes. Get immediate medical attention.
- **After Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Get medical attention. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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5. Fire fighting measures

- **Special extinguishing media:** Water spray, fog or mist. Powder, foam or CO₂
- **Special exposure hazards in fire:** Emits toxic fumes under fire conditions
- **Special protective equipment:** Wear full protective clothing and self contained breathing apparatus (SCBA)

6. Accidental release Measures

- **Personal Protection** Wear appropriate clothing as detailed in section 8.
- **Methods for cleaning:** Small Spillage. Wash down with water. Large Spillage: Contain and absorb the spillage with inert material such as sand. Sweep up the spill and place in clean, dry, well-ventilated containers including any contaminated soil. Dispose of product in accordance with relevant local and national waste disposal legislation. Spillages or uncontrolled release into watercourse, drains, or sewers must be immediately reported to the National Rivers Authority or other appropriate regulatory body.

7. Handling and storage

- **Personal Protection** Avoid contact with skin and eyes. Do not breathe mist. Do not mix with acids. Avoid contact with other cleaning agents. Provide adequate ventilation.
- **Handling** 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.
- **Storage** Keep away from heat and direct sunlight. Keep away from acids, ammonia solutions, amines and methanol. For small quantities vented containers made from glass or PVC are suitable.

8. Exposure control/personal protection

	8hr TWA		15 min STEL	
	ppm	mg/m3	ppm	mg/m3
Chlorine	0.5	1.5	1	3
Sodium Hypochlorite mist (measured as C1 ₂)	-	1.5	-	3

- **Respiratory protection:** Where mist emissions are possible, respiratory protection should be used. 
- **Hand Protection** Wear suitable chemical resistant gloves, rubber, neoprene or PVC
- **Eye Protection** Wear appropriate safety goggles 
- **Skin Protection** Avoid prolonged contact with skin by wearing appropriate clothing.

Trade Name: Sodium Hypochlorite 10/11%

9. Physical and chemical properties
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|-----------------------------------|----------------------------------|
| • Appearance at 20oC | Greenish-Yellow or Purple liquid |
| • Odour | Faintly chlorinous |
| • Specific gravity at 20oC | 1.20 approx |
| • pH (conc) | >11 |
| • Freezing Point | |
| • Solubility in water | Miscible in water |

10. Stability and reactivity

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|---|---|
| • Conditions to avoid | High temperature. Poor ventilation. Contamination |
| • Materials to avoid | Contact with acids liberates toxic chlorine gas. Reacts with ammonia solutions and amines to form explosive compounds. Can react violently if in contact with methanol. Decomposition with evolution of oxygen is accelerated by light and heat and also by contact with many metals, particularly copper, nickel, iron and 'monel'. Thermal decomposition will evolve toxic vapours. |
| • Hazardous decomposition products | Oxides of chlorine |

11. Toxicological Information

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| • Inhalation | Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Gas (chlorine) produced under fire or acidic conditions is toxic by inhalation. |
| • Ingestion | Low oral toxicity. Will cause corrosion and damage to the gastrointestinal tract. |
| • Skin | Causes burns. Repeated or prolonged contact to dilute solutions may cause dermatitis. |
| • Eyes | Risk of serious damage to eyes. Extremely severe irritant/corrosive causing severe initial pain. May cause permanent damage if eye is not immediately irrigated. |
| • Toxicity | This product is not listed as a carcinogen. |

Trade Name: Sodium Hypochlorite 10/11%**12. Ecological Information**

- **Ecotoxicity** Acute toxicity. Very toxic to fish, toxic to aquatic organisms
- **Persistence and degradability** Decomposes quickly in soil or water.
- **Other adverse effects** This product is toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds
There is evidence of inhibition to the aerobic treatment process at a concentration (mg/l) of 0.5

13. Disposal Considerations

- **Substance** Incinerate. Absorb in vermiculite or dry sand, dispose via licensed waste disposal contractor. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations
- **Container** DO NOT re-use container. Rinse thoroughly before discarding. Empty packaging may contain product residues and due consideration should be given prior to disposal

14. Transport Information

- **U N No** UN1791
- **Proper shipping name** Corrosive liquid, sodium hypochlorite
- **Class/division** 8
- **Packing group** III
- **Hazard I D No** 85
- **EAC** 2X
- **PADR/Rid Item No** 61 {c}

Trade Name: Sodium Hypochlorite 10/11%**15. Regulatory information**

• Product Name	Sodium Hypochlorite 10/11%	
• Symbol		
• Indications of danger	C: Corrosive	
• Risk phrases	R31	Contact with acids liberates toxic gas.
	R34	Causes burns
• Safety phrases	S1/2	Keep locked up and out of the reach of children.
	S24/25	Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with water and seek medical advice.
	S37/39	Wear suitable gloves and eye/face protection.
	S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
	S50	Do not mix with acids
	S29/56	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.