

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: SODIUM HYPOCHLORITE SOLUTION 10 - 24 % CL ACTIVE

CAS number: 7681-52-9

EINECS number: 231-668-3

Index number: 017-011-00-1

Use of substance / preparation: Water Disinfectant, Chemical Intermediate, Janitorial products.

Company name: Omnichem Ltd

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2. HAZARDS IDENTIFICATION

Main hazards: Contact with acids liberates toxic gas. Causes burns. Very toxic to aquatic organisms.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: SODIUM HYPOCHLORITE SOLUTION CL ACTIVE 10-24%

EINECS: 231-668-3 CAS: 7681-52-9

[-] R31; [C] R34; [N] R50

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact. Sores and possible dermatitis may occur. Burns may occur.

Eye contact: There may be irritation and redness. There may be severe pain. Corneal burns may occur. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

Inhalation: There may be coughing and a sore throat. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove contaminated clothing. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

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- Eye contact:** SPEED IS ESSENTIAL. Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml of water to drink. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Keep warm and at rest. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Normal extinguishing media.
- Exposure hazards:** Corrosive. In combustion emits toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Evacuate the area immediately. For large spillages over 1000L call the emergency services.
- Environmental precautions:** Do not allow material to enter surface drains or water courses. If this occurs, inform the relevant water authority at once. Contain the spillage using bunding.
- Clean-up procedures:** For small spillages wash the spillage site with water. Contain large spillages with sand, earth or any other suitable adsorbant material. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Spillages or uncontrolled discharges into watercourses, drains or sewers must be IMMEDIATELY alerted to the Environment Agency or other regulatory body. Sodium Metabisulphite must be used to neutralise the chlorine before allowing to go down the drain.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Do not breath mist. Do not mix with acids. Avoid contact with other cleaning agents. Keep away from incompatible products.
- Storage conditions:** Keep away from flames and sources of heat. Keep away from direct sunlight. Keep away from acids, ammonia solutions, amines and methanol. Store in cool, well ventilated area. Keep container tightly closed. Segregate from acids, ammonia, steel, copper and nickel. Avoid incompatible materials and conditions - see section 10 of SDS.
- Suitable packaging:** For small quantities vented containers made from glass or PVC are suitable. For large quantities

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glass reinforced plastic tanks with a PVC lining, rubber lined mild steel or high density polyethylene tanks are suitable. Storage tanks should be completely enclosed except for vents and overflows. Provisions should be made to wash tanks clear of sludge which can build up due to salting out of solids during natural decomposition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Workplace exposure limits**

WEL (15 min STEL): 0.5 ppm (1.5 mg/m³)

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Breathing apparatus must be available in case of emergency. When required to spray sodium hypochlorite solutions or to work in mists adequate respiratory protection should be provided.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Wear protective clothing. Boots or Wellingtons made of PVC. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Yellow-green

Odour: Characteristic odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible

Viscosity: Non-viscous

Boiling point/range°C: 110

Melting point/range°C: -17

Vapour pressure: 17.5mm @ 20°C

Relative density: 1.250

pH: >11

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Direct sunlight. Decomposition with evolution of oxygen is accelerated by light and heat and also by contact with many metals, particularly copper, nickel and iron.

Materials to avoid: Reducing agents. Combustible material. Organic materials. 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. **DO NOT MIX WITH ANY OTHER CHEMICALS.**

Haz. decomp. products: In combustion emits toxic fumes. Contact with acids liberates toxic gas. Chlorine gas is produced. Thermal decomposition will evolve toxic vapours.

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11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE
ORL MUS LD50 5800 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity: SODIUM HYPOCHLORITE SOLUTION 10 - 24 % CL ACTIVE
FISH 96H LC50 0.01 - 0.1 mg/l

Mobility: Readily absorbed into soil. Soluble in water.

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

Bioaccumulative potential: No bioaccumulation potential.

Other adverse effects: Harmful to fauna. Toxic to aquatic organisms. Very toxic to fish.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Disposal should be in accordance with local, state or national regulations. The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted. This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal. This product is subject to The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and their amendments. (United Kingdom)

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 1791	ADR Class: 8
Packing group: II	Classification code: C9
Shipping name: HYPOCHLORITE SOLUTION	
Labelling: 8	Hazard ID no: 80

**IMDG / IMO**

UN no: 1791	Class: 8
Packing group: II	EmS: F-A,S-B
Marine pollutant: NO	
Labelling: 8	

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IATA / ICAO

UN no: 1791 **Class:** 8
Packing group: II
Packing instructions: 809(P&CA); 813(CAO)
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.
Dangerous for the environment.



Risk phrases: R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R50: Very toxic to aquatic organisms.

Safety phrases: S28: After contact with skin, wash immediately with plenty of ...
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.

Precautionary phrases: Warning! Do not use with other products. May release dangerous gases (chlorine).

Haz. ingredients (label): SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.3: R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R50: Very toxic to aquatic organisms.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Omnicem Limited who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.