

SAFETY DATA SHEET

Page 1

SODIUM HYPOCHLORITE > 10 % AVAILABLE CHLORINE

Issued: 28/01/03

Revision No: 2

Monarch Chemicals (Southern) Ltd

New Road

Sheerness

Kent

ME12 1LZ

Tel: 01795 583333

Fax: 01795 583300

Emergency Tel: 07711 009064

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

Product name: SODIUM HYPOCHLORITE > 10 % AVAILABLE CHLORINE

CAS number: 7681-52-9

EINECS number: 231-668-3

Index number: 017-011-00-1

Synonyms: BLEACH > 10 % AVAILABLE CHLORINE

Use / description of product: Bleaching. Water Treatment. Disinfectant. Chlorine Source.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient 1: SODIUM HYPOCHLORITE SOLUTION CL ACTIVE 10-30%

CAS: 7681-52-9

EINECS: 231-668-3

[-] R31; [C] R34;

3. HAZARDS IDENTIFICATION

Main hazards: Causes burns. Contact with acids liberates toxic gas.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact. Severe burns may occur.

Eye contact: There may be irritation and redness. There may be severe pain. Corneal burns may occur.

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 all contaminated clothes and footwear immediately unless stuck to skin.

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.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If substance swallowed is corrosive, give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial

[cont...]

SAFETY DATA SHEET
SODIUM HYPOCHLORITE > 10 % AVAILABLE CHLORINE

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. 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: Carbon dioxide.

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.

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

Clean-up procedures: Cover with sodium bisulphite solution using starch iodide paper to test for complete reduction. Add a small amount of water and mix. Neutralise with dilute sulphuric acid testing with litmus paper periodically. Transfer to a suitable container. Wash down the drain with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging. Plastic. Plastic-lined.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

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

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

TWA (8 hr exposure limit): 0.5 ppm (1.5 mg/m³)

STEL (15 min exposure limit): 1 ppm (2.9 mg/m³)

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Yellow-green

Odour: Odour of chlorine.

Viscosity: Non-viscous

Oxidising: Non-oxidising (by EC criteria)

SODIUM HYPOCHLORITE > 10 % AVAILABLE CHLORINE

Solubility in water: Miscible in all proportions

Melting point/range°C: - 18 for 15.4 %

Relative density: ~ 1.25 g/ml for 14 %

10. STABILITY AND REACTIVITY

Stability: Product will naturally degrade with time.

Conditions to avoid: Heat. Direct sunlight.

Materials to avoid: Acids. Amines. Copper. Nickel.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Ingredient 1: SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE

ORL MUS LCLO 5800mg/kg

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: There is no data available at present.

Other adverse effects: Toxic to aquatic organisms. Toxic to flora.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Do not wash into drains. Do not mix with other waste chemicals. Dispose of in accordance with local and national regulations and guidelines.

Disposal of packaging Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licenced contactor.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 1791

ADR Class: 8

Hazard ID no: 80

Labelling: 8

Shipping name: HYPOCHLORITE SOLUTION

IMDG / IMO

UN no: 1791

Class: 8

Packing group: II

EmS: 8-08

Marine pollutant: NO

Labelling: 8

IATA / ICAO

UN no: 1791

SAFETY DATA SHEET
SODIUM HYPOCHLORITE > 10 % AVAILABLE CHLORINE

Class: 8
Packing group: II
Packing instructions: 813
Quantity 30 L
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.



Risk phrases: R34: Causes burns.

R31: Contact with acids liberates toxic gas.

Safety phrases: S1/2: Keep locked up and out of the reach of children.

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

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.

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. ADDITIONAL INFORMATION

Additional information: REVISIONS TO SECTIONS: 15

Risk phrases used in s.2: R31: Contact with acids liberates toxic gas.

R34: Causes burns.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.