

SAFETY DATA SHEET



Product Name: LIQUID SHOCK (SODIUM HYPOCHLORITE)

SDS Reference 014

Version No. 2

Revision date 01-04-2002

Authorisation date April 22nd 2002

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name RELAX LIQUID SHOCK CHLORINE
Synonym (s) SODIUM HYPOCHLORITE, BLEACH, CHLOROS.
Company Identification PLASTICA LTD
Perimeter House,
Napier Road, Telephone +44 (0) 1424 857899
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Emergency Telephone 0845 6013142 (24hr)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation AQUEOUS SODIUM HYPOCHLORITE SOLUTION CONTAINING 10-11% ACTIVE CHLORINE

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
SODIUM HYPOCHLORITE	7681-52-9	231-668-3	C: R34 R31	10-20%

3. HAZARDS IDENTIFICATION

Physical & Chemical:



CORROSIVE

Health: CAUSES BURNS.
CONTACT WITH ACIDS LIBERATES TOXIC GAS.

Environmental: ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO BE HARMLESS TO THE ENVIRONMENT IF HANDLED IN THE CORRECT MANNER.

4. FIRST AID MEASURES

General information Remove contaminated clothing immediately, to be disposed of or washed before re-use.

Inhalation Remove casualty to fresh air and provide warmth and rest. If necessary, obtain medical attention .

Skin contact Immediately wash contaminated skin with large quantities of water. If necessary SEEK MEDICAL ADVICE..

Eye contact Immediately wash out eye thoroughly with plenty of water until irritation subsides. If irritation persists, SEEK MEDICAL ADVICE (e.g. an ophthalmologist)

Ingestion Do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice. Beware of aspiration if vomiting does occur.

Further information Lung oedema symptoms may usually develop several hours after exposure and is aggravated by physical exertion. In this situation, rest and hospitalisation is essential. A doctor should consider administering a corticosteroid spray.

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5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT IS NOT FLAMMABLE
Extinguishing media	To suit local surroundings (water spray, foam, carbon dioxide, dry chemical powder)
Extinguishing media not to be used	
Special exposure hazards	The thermal decomposition products released should be considered toxic if inhaled.
Protective equipment	Wear self-contained breathing apparatus.
Further information	Cool endangered containers with water

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Adhere to personal protective measures. Small spillages – dilute – may be washed to drain with large quantities of water. Neutralise with suitable reagent and sweep aside to a safe place for subsequent disposal. Wash residual liquid to drain with copious amounts of water and possible detergent. Large spillages – contain with sand or earth and transfer to suitable container for subsequent disposal by licensed contractor. Ventilate the area to dispel toxic decomposition fumes. Evacuate personnel from the area.
Environmental considerations	Do not allow the product to enter ground or wastewater. If this occurs, inform the local water authority at once.
Further information	

7. HANDLING & STORAGE

Advice on safe handling	Handle in accordance with good hygiene and safety practices. Adhere to personal protective measures. Always keep containers or drums tightly closed in a secure place, away from foodstuffs. Do not mix with other chemicals. Care should be taken when opening containers as pressure may have built up during storage, Keep locked up and out of reach of children.
Storage conditions	Store in a cool, dry, well-ventilated area, away from incompatible chemicals or materials. Avoid exposure to light, heat, below freezing temperature and contamination by dust or other foreign bodies. Storage tanks should be completely enclosed apart from vent and overflow connections. Store in externally reinforced PVC, high-density polythene or carbon steel lined with a suitable grade of rubber. Steel tanks, lined with certain plastic, cement, ceramic tiles or glass, may be used. Do not store in stainless steel or any metal containers.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Monitoring of the workplace should be considered in accordance with EH40/2002 (or equivalent) controls LTEL (8 hour TWA): 0.5 ppm 1.5 mg/m ³ Chlorine, OES (EH40/2000) STEL (15 min): 1 ppm 2.9 mg/m ³ Chlorine, OES (EH40/2000)
Engineering controls	Ensure adequate ventilation of working area (e.g. local exhaust ventilation).
Personal protection	Observe normal standards for handling chemicals. Avoid breathing vapour and eye and skin contact. Wash thoroughly after handling (shower if necessary) Wear personal protective equipment appropriate to the task (see below)
Eye protection	Wear chemical goggles (i.e. EN 166 approved). Eyebaths should be provided at place were accidental exposure may be possible.
Skin protection	Natural rubber latex gloves(also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	Respirator (if ventilation is insufficient)
Other protection	Protective overall, , rubber boots

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Clear liquid
Colour	Greenish-yellow
Odour	Characteristic bleach odour
pH	12
Boiling pt / range	107 °C
Melting pt / range	°C
Flash point	°C
Vapour pressure	17.5 mm Hg at 25°C
Relative density	
Explosive limits	Lower: % (v/v) Higher: % (v/v)
Viscosity	
Water solubility	Miscible

10. STABILITY & REACTIVITY

Stability	Unstable
Thermal decomposition	
Conditions to avoid	Heat and sources of ignition.

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10. STABILITY & REACTIVITY

Material to avoid The product is incompatible with acids, oxidising agents, solid or powdered metal, flammable combustible materials, halogenated substances and amines, as well as specific substances (i.e. ammonia, ammonium phosphate, carbamide, copper, manganese, ethylenimine, methanol, mustard gas, nickel, oxalic acid and tin).

Hazardous reactions

Hazardous decomposition products chlorine

Further information

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD₆₀ rat (oral) 8910 mg/kg

Dermal compatibility No data available

Mucous membrane compatibility No data available

Further information Gas or vapour is extremely irritating after a brief exposure. Symptoms include pulmonary oedema, frothy sputum, nausea and vomiting.

12. ECOLOGICAL INFORMATION

Acute toxicity LC₅₀ Fish mg/l No data are available

Degradability No data are available

Further information

13. DISPOSAL CONSIDERATIONS

Advice on disposal In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations, 1996) or incineration, after consultation with the operator.

Contaminated packaging Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

United Nations number UN 1791

Packaging group III

IMDG code 8/1791/III

RID / ADR 8, III

ICAO / IATA

Marine pollutant The product should not be marked as a marine pollutant.

Proper shipping name HYPOCHLORITE SOLUTION

CEFIC Tremcard number 45/80G12

Emergency action code 2X

Further information

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15. REGULATORY INFORMATION

Classification & labelling

The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3] Contains sodium hypochlorite



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.
S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S28 AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF SOAP AND WATER.
S50 DO NOT MIX WITH ACIDS.

16. OTHER INFORMATION

Further information

The safety data sheet has been revised in the following sections: 1; 14

Sources of data

The Approved Supply List, Approved Carriage List, EH40/2002 and other suppliers' safety data sheets

Date of issue

17-09-2003

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.

Data sheet prepared by Rising HS&E Services.