

SAFETY DATA SHEET

SODIUM HYPOCHLORITE SOLN 12.5%

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name SODIUM HYPOCHLORITE 12.5%
Product Code 170
Product Use Chlorine sanitiser, disinfectant , bleaching agent, water treatment
Company Name Byre Chemicals
Address 3/43 Byre Avenue
 Somerton Park SA 5044
Telephone 08 8350 9228
Fax 08 8350 9334
Emergency phone no. 0412 426 697
Email info@byrechemicals.com.au

2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code for Transport by Road and Rail.
 Classified as hazardous according to Safework Australia
GHS Classification H300 Fatal if swallowed Category 1
 H312 Harmful in contact with skin Category 4
 H314 Causes severe skin burns and eye damage Category 1A
 H318 Causes serious eye damage Category 1
 H335 May cause respiratory irritation Category 3
 H402 Harmful to aquatic life Category 3
Signal Word DANGER
Hazard Statement Harmful if swallowed
 Cause severe skin burns and eye damage
Precautionary Statement
 Do not mix with acids. Will liberate toxic chlorine gas.
 Avoid contact with skin and eyes
 Wear eye protection and rubber gloves
 Avoid inhaling mists
 If swallowed DO NOT induce vomiting. Give water or milk. Seek immediate medical help.
 Splashes on skin to be washed off immediately
 If splashed into eyes , remove contact lenses if present and wash with clean running water for 15 minutes. Seek medical attention immediately.
 Keep containers tightly closed and store in a lock-up facility.

Pictograms



3. COMPOSITION /INFORMATION ON INGREDIENTS

INGREDIENTS	CAS.NO.	PROPORTION
Sodium Hypochlorite Soln	7681-52-9	12 – 15 % available Chlorine
Water		Balance

BYRE CHEMICALS

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4. FIRST-AID MEASURES

INHALATION	Avoid generating mists. Remove casualty from contaminated area. If patient finds breathing difficult, and develops a bluish discoloration of the skin, ensure airways are clear and administer oxygen if required
INGESTION	If swallowed Do Not induce vomiting. Give water or a glass of milk. If breathing has stopped, give artificial respiration. Transport to hospital.
SKIN	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. If irritation persists, seek medical advice.
EYE	If in eyes, hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention
FIRST AID	Eye wash. Safety shower , hand wash basin
ADVICE TO DOCTOR	Treat symptomatically

5. FIREFIGHTING MEASURES

Extinguishing Media	Not combustible. Water, Carbon dioxide,, dry chemical or foam
Hazards from Combustion	Material won't burn but will emit carbon dioxide including toxic fumes of chlorine gas.
Precaution for Firefighter	Wear self contained breathing apparatus and chemical suit. Prevent run off from entering drains and waterways

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE

Evacuate all unauthorised personnel. Do not breathe fumes or handle damaged containers
For small spills hose down area. For large spills absorb onto an inert material such as dirt or sand. The collected material should then be transferred into suitable containers , labelled and disposed of in an appropriate way.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Wear appropriate protective clothing
Avoid inhalation of vapours and mists and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use.
Prevent the build up of mists and vapours in the work atmosphere. Do not use near ignition sources, cut, heat containers as they may produce hazardous fumes. Maintain high standards of personal hygiene ie washing hands prior to eating, drinking, smoking or using toilet facilities

CONDITIONS FOR SAFE STORAGE

Corrosive liquid . Store in a cool, dry, well ventilated area away from sources of ignition , strong acids, peroxides, foodstuffs and clothing. Large quantities should be stored in a bunded dangerous goods store. Prevent contact with aluminium, tin, zinc or galvanised iron .Store in original containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	LC50 Chlorine 293 ppm/hour (Rat) LcLo Chlorine 2530mgm/m3/30 minutes human Chlorine TWA 1ppm 3mgm/m3 Peak limitation
Engineering Controls	This substance is hazardous. Ensure adequate ventilation to maintain air concentration below exposure standards
Eye Protection	Safety glasses with side shields should be used.
Hand Protection	Wear gloves of impervious material such as neoprene, or nitrile rubber.
Hygiene Measures	Avoid contact with skin, eyes and clothing Wash hands after handling product. Keep away from foodstuffs.
Skin & Body Protection	Wear rubber apron

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear pale yellow liquid
Odour	Chlorine
pH	Above 13
Boiling Point	Above 100C
Vapour Pressure	Not Applicable
Flash Point	None
Specific Gravity	1.20
Solubility in Water	Miscible in all proportions.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling. Strength of chlorine diminishes with time.
Conditions to avoid	Excess heat, open flames, sources of ignition, exposure to air and light and foodstuffs
Incompatible materials	Acids will liberate toxic chlorine gas. Reacts with ammonia, amines and ammonium salts to produce chloramines
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LC50 (Rat) 293 ppm / hour LcLo 2530 mgm/m ³ /30 mins. LD50 2 mgm/m ³ Sodium Hydroxide
Ingestion	Corrosive. Harmful if swallowed. Will cause burns to mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring
Eyes	Corrosive. Causes severe burns which can result in permanent injury or blindness
Skin	Causes severe irritation and if untreated burns
Carcinogenic	No evidence of carcinogenic properties
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways
Persistence/Degradability	This material is biodegradable
Mobility	Soluble in water
Bioaccumulative Potential	Does not bioaccumulate
Environmental	Do not discharge into drains, sewers, waterways
Aquatic Toxicity	Very toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

Spills & Disposal	Disposal of small spillages only. For large spillages liquids should be contained using sand or earth and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and for flammable materials, shut off all possible sources of ignition.
Disposal	Land fill, sewer (small quantities). Refer to Land Waste Management Authority in your State

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<i>Transport Information</i>	<i>This material is classified as Dangerous Goods</i>
<i>Proper Shipping Name</i>	<i>HYPOCHLORITE SOLUTION</i>
<i>UN.NO.</i>	<i>1791</i>
<i>Packaging Group</i>	<i>11</i>
<i>Hazchem Code</i>	<i>2X</i>
<i>DG Class</i>	<i>8</i>

15. REGULATORY INFORMATION

<i>Regulatory Information</i>	<i>Classified as hazardous according to criteria of NOHSC Poisons Schedule S5</i>
<i>Hazard Category</i>	<i>Irritant to skin</i>
<i>Risk Statement</i>	<i>Undiluted product can cause severe burns.</i>
<i>Safety Statement</i>	<i>Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Wear suitable gloves and eye/face protection. In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately.</i>

16. OTHER INFORMATION

<i>Preparer Signature</i>	<i>Technical Director</i>
<i>Contact</i>	<i>Telephone: 08 8350 9228 24 hour emergency number 0412 426 697</i>

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