

SAFETY DATA SHEET

CAUSTIC SODA SOLUTION

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name CAUSTIC SODA SOLUTION
Product Code 187
Product Use Neutralizing agent , pH adjuster.
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

GHS Classification H300 Fatal if swallowed Category 1
 H314 Causes severe skin burns and eye damage Category 1A
 H318 Causes serious eye damage Category 1
 H290 May be corrosive to metals.

Signal Word DANGER

Hazard Statement Harmful if swallowed
 Causes severe burns and eye damage

Precautionary Statement

P101 If medical advice is needed, have product container or label at hand
 P102 Keep out of the reach of children
 P103 Read label before use.

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
 Sodium Hydroxide
 Water

CAS.NO.
 1310-73-2

PROPORTION
 30 – 60 %
 Balance

BYRE CHEMICALS

CAUSTIC SODA SOLUTION

4. FIRST-AID MEASURES

INHALATION	Avoid generating mists. Remove casualty from contaminated area
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	Carbon dioxide, or foam
Hazards from Combustion	Material won't burn but may emit carbon dioxide including carbon monoxide gas. Contact with some metals including aluminium and zinc will liberate flammable hydrogen gas
Precaution for Firefighter	Wear 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.
Dispose of waste according to applicable local and national regulations

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, oxidising agents , 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	Sodium Hydroxide 2mg/m ³
Engineering Controls	This substance is hazardous
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

CAUSTIC SODA SOLUTION**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear to pale yellow mobile liquid
Odour	Nil
pH	Above 13
Boiling Point	Above 100C
Vapour Pressure	Not Applicable
Flash Point	None
Specific Gravity	1.45
Solubility in Water	Miscible in all proportions. Evolves heat on dilution with water.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to avoid	Excess heat exposure to air
Incompatible materials	Acids, strong oxidising agents.
Hazardous decomposition	Thermal decomposition may result in release of irritating fumes including carbon dioxide and carbon monoxide
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity Ingestion	Sodium Hydroxide Oral LD50 (Rabbit) 500 mgm/kg Corrosive. Harmful if swallowed. May 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	No data available
Persistence/Degradability	Low
Mobility	Soluble in water
Bioaccumulative Potential	No data available
Environmental	Do not discharge into drains, sewers, waterways

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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14. TRANSPORT INFORMATION

<i>Transport Information</i>	<i>This material is classified as Dangerous Goods Class 8 Class 8 goods are incompatible with the following Class 1 Explosives Class 5.1 Oxidising substances Class 5.2 Organic peroxides</i>
<i>Proper Shipping Name</i>	<i>SODIUM HYDROXIDE SOLUTIONS</i>
<i>UN.NO.</i>	<i>1824</i>
<i>Packaging Group</i>	<i>11</i>
<i>Hazchem Code</i>	<i>2R</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 S6</i>
<i>Hazard Category</i>	<i>Corrosive, irritant to skin</i>
<i>Risk Statement</i>	<i>Causes 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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