



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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### Product Name: CAUSTIC SODA

Company: Recochem Inc. ABN: 69 010 485 999  
Address : 1809 Lytton Road, Lytton, Queensland 4178  
Phone: (07) 3308 5200 Fax: (07) 3308 5201  
Emergency Telephone Number: (07) 3308 5200 Day, After Hours 1300 131 001

Other Names: Caustic, Soda lye, Sodium hydrate, Sodium Hydroxide  
Manufacturer's Product Code: 16402  
Recommended Use: Drain Cleaner, Soap making ingredient, Paint remover.

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## SECTION 2 HAZARDS IDENTIFICATION

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**CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA  
A DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE ADG CODE**

**Symbols:** C - Corrosive  
**Risk Phrases:** R35 - Causes severe 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  
S37/39 - Wear suitable gloves and eye/face protection  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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### Hazardous Ingredients

<i>Chemical Entity</i>	<i>CAS Number</i>	<i>Proportion (%)</i>
Sodium Hydroxide	1310-73-2	> 98

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## SECTION 4 FIRST AID MEASURES

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### FIRST AID TREATMENT

**Swallowed:** DO NOT DELAY. Do NOT induce vomiting. If victim is alert, rinse mouth and drink 1/2 to 1 glass of water to help dilute the material. Seek immediate medical assistance.

**Eye:** DO NOT DELAY. If in eyes, hold eyes open, flood with water for at least 15 minutes or until advised by the Poisons Information Centre / doctor.

**Skin:** DO NOT DELAY. If spilt on skin or hair, immediately drench with running water and remove contaminated clothing. Continue to wash skin and hair with plenty of water until advised to stop by the Poisons Information Centre / doctor. For skin burns, cover loosely with a clean, dry, sterile dressing until medical help is available.

**Inhaled:** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**First Aid facilities:** Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

**Advice to Doctor:** Treat symptomatically.

**Additional Information:** None available.

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## SECTION 5 FIRE FIGHTING MEASURES

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**Specific Hazard:** Reacts violently with water.

**Product: CAUSTIC SODA**

**Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: water fog or fine water spray, foam, dry chemical powder, carbon dioxide.

**Hazards from combustion products:** Decomposes on heating emitting toxic fumes.

**Precautions for Fire Fighters and Special Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

**Additional Information:** Hazchem code 2W.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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Observe all local and national regulations.

**Spills and Disposal:** Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contact and breathing dust. Work upwind or increase ventilation. Cover with damp absorbent inert material, sand or soil. Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. Caution – heat may be evolved on contact with water. If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and Materials for Containment and Clean Up Procedures:** For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

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**SECTION 7 HANDLING AND STORAGE**

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**Precautions for Safe Handling and Storage:** Avoid skin and eye contact and breathing dust. Store in a cool, dry, well ventilated place out of direct sunlight. Store away from incompatible materials (see section 10). Keep containers closed when not in use – check regularly for spills. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not eat, drink or smoke in contaminated areas.

**Dispensing:** No information available.

**Flammability:** Non-combustible material.

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Exposure Standards:** National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard 2mg/m<sup>3</sup> STEL.

**Biological Limit Values:** No biological limit allocated.

**Personal Protective Equipment:**

**Respiratory Protection:** In instances where concentrations are likely to exceed the exposure limits, an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.

**Hand Protection:** Use impervious gloves.

**Eye Protection:** Wear safety goggles.

**Protective Clothing:** Use chemical resistant glove/gauntlets, boots and overalls.

**Engineering Controls:** Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Always wash hands before eating, drinking or using the toilet.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES**

Appearance	White Solid
Odour	None
pH (1% solution in water)	12.7
Vapour Pressure (mmHg @ 20°C):	Not applicable
Vapour Density (air = 1)	Not applicable
Boiling Point (°C):	1390
Freezing/Melting Point (°C):	318
Solubility in Water	Miscible with water
Specific Gravity (g/ml @ 20°C):	2.13
Flashpoint (°C):	Not applicable
Flammability Limits (%):	Not applicable
Auto Ignition Temperature (°C):	Not applicable

**Product: CAUSTIC SODA**

Percent Volatiles 0

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**SECTION 10 STABILITY AND REACTIVITY**

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**Chemical Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Exposure to water vapour.

**Incompatible Materials:** Acids, aluminium, tin, zinc and chlorinated hydrocarbons.

**Hazardous Decomposition Products:** None.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**HEALTH EFFECTS**

*Acute:*

**Swallowed:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Eye:** A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

**Skin:** Contact with skin will result in severe irritation. Corrosive to skin – may cause burns.

**Inhaled:** Breathing in dust may result in respiratory irritation.

**Chronic:** No information.

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**SECTION 12 ECOLOGICAL INFORMATION**

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**Ecotoxicity:** Avoid contaminating waterways.

Fish : Expected to have low toxicity: 10 < LC/EC/IC50 <= 100 mg/l

Aquatic Invertebrates : Expected to have low toxicity: 10 < LC/EC/IC50 <= 100 mg/l

Algae : Data not available

**Mobility:** Miscible with water.

**Persistence/degradability:** Not applicable.

**Bioaccumulation:** Not expected to bioaccumulate significantly.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**Disposal Methods:** Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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UN Number:	1823	Proper Shipping Name:	Sodium Hydroxide, Solid
Class:	8	Subsidiary Risk:	
Packing Group:	II	Hazchem Code:	2W
Special Precautions for User:	None		

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**SECTION 15 REGULATORY INFORMATION**

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Poisons Schedule : 6

AICS : Listed

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010) : 37

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**SECTION 16 OTHER INFORMATION**

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Further Information may be obtained by contacting Recochem on (07) 3308 5200

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

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