



# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>CAUSTIC SODA</b>
<b>Other Names</b>	Caustic, Soda lye, Sodium hydrate, Sodium hydroxide
<b>Manufacturer's Product Code</b>	16402
<b>Recommended Use</b>	Drain cleaner, soap making ingredient, paint remover

### Details of Supplier/Manufacturer

Company:	Recochem Inc. ABN: 69 010 485 999
Address:	1809 Lytton Road, Lytton, Queensland 4178
Phone:	(07) 3308 5200 Fax: (07) 3308 5201
Website:	www.recochem.com.au


### Emergency Telephone Numbers

Business Hours:	(07) 3308 5200
After Hours:	1300 131 001
Poisons Information:	Australia: 13 11 26 New Zealand: 0800 764 766

## SECTION 2 HAZARDS IDENTIFICATION

<b>Hazardous chemical</b>	<i>according to classification by Safe Work Australia</i>
<b>Dangerous goods</b>	<i>according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</i>

<b>Signal Word</b>	<b>DANGER</b>
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GHS Classification	Pictogram	Hazard statement
Skin Corrosion/Irritation, Category 1A	 CORROSION	H314 Causes severe skin burns and eye damage

### Precautionary statements:

<b>GENERAL</b>	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
<b>PREVENTATIVE</b>	
P260	Do not breathe dusts or mists
P264	Wash thoroughly after handling

**Product: CAUSTIC SODA**

P280	Wear protective gloves/eye protection/face protection
<b>RESPONSE</b>	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/physician
P363	Wash contaminated clothing before reuse
<b>STORAGE</b>	
P405	Store locked up
<b>DISPOSAL</b>	
P501	Dispose of contents/container in accordance with local regulations

**SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS****Ingredients Names and Proportions**

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

**SECTION 4 FIRST AID MEASURES****Description of necessary first aid measures**

Inhalation:	Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
Skin Contact:	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.
Eye Contact:	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.
Ingestion:	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.

**Symptoms caused by exposure**

Inhalation:	May cause respiratory irritation, including breathing difficulty, lung inflammation, sneezing and throat swelling.
Skin:	A severe irritant. May include burning sensation, redness, swelling and/or blisters.
Eye:	A severe irritant. Corrosive to eyes; contact can cause corneal burns. May include pain or burning sensation, redness, swelling and/or blurred vision.
Ingestion:	May result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Medical attention and special treatment**

Treat symptomatically.

**Product: CAUSTIC SODA**

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## **SECTION 5 FIRE FIGHTING MEASURES**

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### **Suitable extinguishing equipment**

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

### **Specific hazards arising from the chemical**

Reacts violently with water. Decomposes on heating emitting toxic fumes.

### **Special protective equipment and precautions for fire fighters**

Wear full protective clothing and self-contained breathing apparatus. Hazchem code 2W.

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## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

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### **Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Wear protective equipment to prevent skin and eye contact and breathing dust. Work upwind or increase ventilation.

### **Environmental precautions**

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Ventilate contaminated area thoroughly. If contamination of sewers or waterways has occurred advise local emergency services.

### **Methods and materials for containment and cleaning up**

Cover with damp absorbent inert material, sand or soil. Avoid generating dust. Caution – heat may be evolved on contact with water.

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**

Non-combustible material. Avoid skin and eye contact and breathing dust. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas.

### **Conditions for safe storage, including any incompatibilities**

Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Keep away from incompatible materials (see SECTION 10).

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## **SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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### **Exposure control measures**

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - Sodium hydroxide: 2mg/m<sup>3</sup> (peak limitation) STEL

### **Biological monitoring**

No biological limit allocated.

### **Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

**Product: CAUSTIC SODA****Individual protection measures**

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory protection:	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Solid
Odour:	None
Odour threshold (ppm):	Data not available
pH:	12.7 (1% solution in water)
Melting point/freezing point (°C):	318
Initial boiling point and boiling range (°C):	1390
Flash point (°C):	Data not available
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Non-combustible
Upper/lower flammability or explosive limits (%):	Data not available
Vapour pressure (kPa @ 20°C):	Data not available
Vapour density (air = 1 @ 15°C):	Data not available
Density (g/ml @ 20°C):	2.13
Solubility (kg/m <sup>3</sup> ):	Miscible with water
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	Data not available
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm <sup>2</sup> /s @ 25°C):	Data not available

**SECTION 10 STABILITY AND REACTIVITY****Reactivity**

Stable under normal conditions of use.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

Stable under normal conditions of use.

**Product: CAUSTIC SODA****Conditions to avoid**

Exposure to water vapour.

**Incompatible materials**

Acids, aluminium, tin, zinc and chlorinated hydrocarbons.

**Hazardous decomposition products**

None.

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity:	LD50 data not available.
Skin corrosion/irritation:	Contact with skin will result in severe irritation. Corrosive to skin – may cause burns.
Serious eye damage/irritation:	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
Respiratory or skin sensitisation:	Data not available.
Germ cell mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Not expected to be carcinogenic.
Reproductive toxicity:	Not expected to impair fertility.
Specific Target Organ Toxicity (STOT) – single exposure:	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Data not available.
Aspiration hazard:	Data not available.

**SECTION 12 ECOLOGICAL INFORMATION****Ecotoxicity**

Acute toxicity:

Fish –	Expected to have low toxicity: $10 < LC/EC/IC50 \leq 100\text{mg/l}$
Aquatic invertebrate –	Expected to have low toxicity: $10 < LC/EC/IC50 \leq 100\text{mg/l}$
Algae –	Expected to have low toxicity: $10 < LC/EC/IC50 \leq 100\text{mg/l}$
Microorganisms –	Data not available

Chronic toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

**Persistence and degradability**

Data not available.

**Bioaccumulative potential**

Not expected to bioaccumulate significantly.

**Product: CAUSTIC SODA**

**Mobility in soil**

Miscible with water.

**Other adverse effects**

Data not available.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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<b>UN number:</b>	1823
<b>Proper shipping name:</b>	Sodium Hydroxide, Solid
<b>Australian Dangerous Goods class:</b>	8
<b>Australian Dangerous Goods packing group:</b>	II
<b>Hazchem code:</b>	2W

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**SECTION 15 REGULATORY INFORMATION**

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Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	6
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	37

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**SECTION 16 OTHER INFORMATION**

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Date of preparation:	03/03/2015
Revision number:	5
Changes in this revision:	Update to GHS SDS standard

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This MSDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Recochem on (07) 3308 5200.

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