

# MATERIAL SAFETY DATA SHEET

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## PRODUCT : CAUSTIC SODA

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA.

Product Code: 0051570

Other names: Nil

UN Number:	1823	Shipping Name:	SODIUM HYDROXIDE (SOLID)
Hazchem Code:	2R	DG Class :	8
Subsidiary Risk:	NIL	Poison Schedule:	S6
Packaging Group:	II		

### PHYSICAL DESCRIPTION/PROPERTIES

Use:	General chemical		
Appearance :	White, deliquescent pellets	Odour :	Nil
Specific Gravity:	2.13	Vapour Pressure:	Not applicable
Solubility in water:	Complete	Flash Point :	Non-flammable
Boiling/Melting Points:	mp 318°C	Flammability Limits :	Non- flammable
Other Properties:	nil	pH :	12.7 (1% aq solution)

### INGREDIENTS

Chemical	CAS Number	Proportion
Sodium Hydroxide	1310-73-2	>60%

### FIRST AID:

- Swallowed:** Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place victim's face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical attention.
- Eye:** Immediately irrigate with copious quantities of water for at least 15 minutes, eyelids to be held open. Urgently seek medical attention.
- Skin Contact:** Remove contaminated clothing and wash skin thoroughly with water for at least 15 minutes. Seek medical attention if irritation develops. Wash contaminated clothes before re-use.
- Inhaled:** Remove victim from exposure – avoid becoming a casualty. For all but the most minor symptoms, arrange for patient to be seen by a doctor ASAP.
- First Aid Facilities:** No special requirements.
- Advice to Doctor:** Treat symptomatically and as for strongly alkaline.

### WORKSAFE AUSTRALIA CLASSIFICATION

CATEGORY :	C+ – VERY CORROSIVE
RISK PHRASES :	R35 - Causes severe burns. R41 - Risk of serious damage to eyes.
SAFETY PHRASES :	S26 - In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. S2 - Keep out of reach of children. S37/39 - Wear suitable gloves and eye/face protection.

**PRODUCT : CAUSTIC SODA**

**HEALTH EFFECTS**

<b><u>ACUTE:</u></b>	Symptoms that may arise if the product is mishandled are:
<b>Swallowed:</b>	Pain, nausea, vomiting, swelling of the larynx and suffocation, perforation of the gastrointestinal tract, cardiovascular collapse and coma can result.
<b>Eye:</b>	Corrosive to eyes; contact can cause conjunctivitis, corneal burns and ulceration, which can result in permanent injury and possible loss of sight.
<b>Skin Contact:</b>	Corrosive to skin – may cause skin burns. Irritant dermatitis may result from working with the material.
<b>Inhaled:</b>	Will result in respiratory and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.
<b><u>CHRONIC:</u></b>	Chronic effects are unlikely due to the severity of acute effects.

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**PRECAUTIONS FOR USE:**

<b>Exposure Standards:</b>	2mg/m <sup>3</sup> ceiling value for this specific material by the National Health and Medical Research Council or by the National Occupational Health and Safety Commission (Worksafe Australia).
<b>Engineering Controls:</b>	Maintain concentration below recommended exposure limit. Avoid generating and inhaling dusts, mists and aerosols.
<b>Personal Protection:</b>	Avoid all contact. Wear overalls, full face shield, elbow length impervious gloves, splash apron and rubber boots. Leather is attacked by caustic. If inhalation risk exists, wear air supplied mask meeting the requirements of AS 1715 and AS 1716.
<b>Flammability:</b>	Not a combustible material.

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**SAFE HANDLING INFORMATION :**

<b>Storage and Transport:</b>	Classed as a Class 8 corrosive liquid, by the Australian Code for the Transport of Dangerous Goods by Rail and Road. Not to be loaded with D.G. class 4.3, class 5 or foodstuffs. Store in a cool, dry place, and out of direct sunlight. Keep containers closed at all times.
<b>Spills and Disposal:</b>	Wear full protective clothing and equipment. Clear area of all unprotected personnel. Prevent large spills from entering sewer systems, waterways, etc. Mop up with absorbent material. Collect and seal in properly labelled containers for disposal. Wash area down with excess water.
<b>Fire/Explosion:</b>	Non-combustible material. Heat generated by reaction with water is sufficient to ignite materials. WATER, FOG, FOAM, CO <sub>2</sub> , DRY CHEMICAL, BCF.
<b>Other information:</b>	Reacts violently with water, acids, aluminium and galvanised material. Do not store with these.

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**CONTACT POINT: Industrial Chemist - phone: 07 3204 8300**

This material safety data sheet is compiled from the best information currently available to the company. The company accepts no responsibility for the accuracy of the information contained in this data sheet, or any results obtained by customers or end-users. Good industrial hygiene should always be used when handling chemicals.

END OF MSDS