



Lepanto Australia Pty. Ltd.

118 Williams Road, Dandenong, VIC., 3175

Tel: 03-9791 6711 Fax: 03-9791 5079

MATERIAL SAFETY DATA SHEET

The information contained herein is to the best of our knowledge correct and complete.

It is meant to describe safety requirements of this product and no warranty, express or implied is made as to its fitness for a particular purpose or any other nature as to the product to which it refers.

CAUSTIC SODA

STATEMENT OF HAZARDOUS NATURE: Hazardous according to criteria of Worksafe Australia.

PRODUCT IDENTIFICATION

UN No:	1823	Spec. E.P.G.:	Not applicable
HAZCHEM:	2R	G.T. E.P.G.:	8A1
Packaging Group:	II	SUSDP:	S6 (VIC)
D.G. Class:	8	IMDG:	Not applicable
Sub risk:	Not applicable	CAS No.:	1310-73-2

USE: General chemical.

OTHER NAMES:

Caustic Soda - solid grades
Sodium hydroxide
Soda lye

TRADE NAMES:

Caustic Soda

MANUF.:

ICI

INGREDIENTS:

Caustic Soda

CAS No

1310-73-2

PROPORTION

100%

PHYSICAL DESCRIPTION / PROPERTIES:

Appearance:	White deliquescent strongly alkaline solid in various forms. Eg.: pellets, beads, grains, flakes, lumps or powder. Soluble in water, alcohol and glycerol.
Boiling Range:	1390.0°C
Melting Range:	310°C
Vapour Pressure:	@739°C : 0.13 kPa
Specific Gravity:	2.13 (25°C)
Flash Point:	Not combustible
Flammability Limits:	Not applicable
pH:	as received 1% aqueous solution) : 12.7 N/A: - Not applicable.

HEALTH HAZARD INFORMATION

Toxicity Data:

Intraperitoneal LD50 (mouse) : 40 mg/kg
Oral Lowest Lethal Dose (rabbit) : 500mg
Skin : Corrosive
Eyes : Corrosive Permanent damage may occur.
Highly corrosive to any tissue with which it comes into contact. Produces burns, deep ulceration and gelatinous necrotic areas at the site of contact.
Low systemic toxicity.

Acute Effects:

Swallowed:

Highly toxic.
Ingestion can result in pain, nausea, vomiting, swelling of larynx and subsequent suffocation, perforation of the gastrointestinal tract, cardiovascular collapse and coma.

Eyes:

Corrosive to eyes; contact can cause conjunctivitis, corneal burns and ulceration, which can result in permanent injury and possible loss of sight.

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Skin

Corrosive to skin. May cause burns.

Skin contact often does not cause pain, thus care should be taken to avoid contamination of gloves and boots

Irritant dermatitis may result from working with the material.

Inhaled:

Inhalation of dust or mists of the solution will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

FIRST AID:

Swallowed:

Thoroughly rinse mouth out with water .

Give plenty of water to drink. DO NOT INDUCE VOMITING.

If vomiting occurs give further water to achieve effective dilution. Seek medical assistance.

Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons.

Melbourne : (03) 9345 5678

Eyes:

Immediately irrigate with copious quantity of water for at least 15 minutes.

Eyelids to be held open.

Remove clothing if contaminated and wash contaminated skin.

Urgently seek medical assistance.

Transport to hospital or medical centre. Continue washing during transport if possible.

Health Hazard - First Aid cont.

Skin:

Wash affected area with copious quantities of water.

Remove contaminated clothing and wash before re-use.

If swelling, redness, blistering or irritation occurs seek medical advice.

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 as soon as possible - either on site or at the nearest hospital.

Advice to Doctor:

Treat symptomatically as for strongly alkaline corrosive material.

PRECAUTIONS FOR USE

Exposure Limits:

Exposure Standard (TWA) : 2 mg/m³ Peak Limitations.

As published by the National Occupational health and Safety Commission (Worksafe Australia)

Exposure Standards (TWA) is the time weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Peak Limitation:

A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Controls:

Maintain concentration below recommended exposure limit. Avoid generating and inhaling dusts, mists and aerosols.

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Personal Protection:

CI PERSONAL PROTECTION GUIDE (NO. 2, 1990) : CODE J - Overalls, boots, faceshield or air mask, gloves, apron.

Avoid all contact. Wear overalls, full face shield, elbow-length impervious gloves, splash apron and rubber boots.

Leather is attacked by caustic. Use with adequate ventilation.

Avoid generating and inhaling dusts, mists and aerosols.

If inhalation risk exists wear air-supplied mask.

Always wash hands before eating, drinking, smoking or using the toilet.

Wash contaminated clothing and protective equipment before storing or reusing.

Poisons Information Centre: Phone: Australia 13 1126 New Zealand 03 4747000

Flammability:

Non combustible material.

Environment

Not applicable.

SAFETY HANDLING INFORMATION

Storage & Transport:

CORRECT SHIPPING NAME : Sodium hydroxide solid

UN No. : 1823 PACKING GROUP : 2

Classified as an 8 (Corrosive) Dangerous Substance for the purpose of transport.

(Refer to relevant regulations for storage and transport requirements).

Not to be loaded with dangerous when wet substances (class 4.2), oxidising agents (class 5) or foodstuffs.

This material is a scheduled poison (S6) and must be stored, maintained and used in accordance with the relevant regulations.

Keep containers closed at all times. Store away from acids.

Do not store in aluminum or galvanised containers.

Keep dry. Reacts exothermically with water.

Heat evolved may cause boiling and spattering.

Check regularly for spills and leaks.

Spills and Disposal:

SPILLS:

Clear area of all unprotected personnel.

Wear protective equipment to prevent skin and eye contamination.

Sweep up, but avoid generating dust.

Collect and seal in drums for disposal.

Wash area down with large quantity of water.

Caution - heat will be evolved.

DISPOSAL:

Refer to State Land Waste Management Authority.

Empty containers must be decontaminated.

Can be dissolved carefully in water and greatly diluted or carefully neutralised with dilute acid and flushed to drain with copious amounts of water.

Alternatively, normally suitable for disposal at approved land waste site.

Fire / Explosion Hazard:

Non combustible.

Reactivity Data:

Vitreous exothermic reaction with water.

In the presence of moisture it is corrosive to aluminum, zinc and tin produces hydrogen gas.

Reacts violently with acids.

Reacts with ammonium salts evolving ammonia gas.

Absorbs water and carbon dioxide from the air.

Vigorous exothermic reaction with water which can lead to boiling and spattering.

References:

CDS : 10516

ISSUED : 11/89

REVISED DATE 5th March 2005