

CLEANERS WAREHOUSE

68-70 Booth Street. Annandale, 2038. Telephone 02-9660 5000 Facsimile 02-9660 5765
Email: cleanerswarehouse@bigpond.com

Safety Data Sheet

SPECIALTY CHEMICALS GROUP

CORROSIVE CLASS 8

Product Name - CAUSTIC SODA

CDS : 02144
ISSUED 02/2007
PAGE 1

IDENTIFICATION & PHYSICAL DATA

U.N. NO	:1823	CLASS 8	CORROSIVE
HAZCHEM	:2R		
PACKAGING	: II		
EPG	: 8A1		POISONS SCHEDULE S6

Hazardous according to criteria of Worksafe Australia.
Hazard category: C+ Very Corrosive.

R35: Causes severe burns.
R36/38: Irritating to eyes and skin.
R41: Risk of serious damage to eyes.

S2: Keep out of 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.

CORRECT SHIPPING NAME
SODIUM HYDROXIDE SOLID

OTHER NAMES
Caustic soda – solid grades
Sodium hydroxide
Soda lye

CAS NUMBER
1310-73-2

MOLECULAR FORMULA
Na-O-H

USES
General chemical

PHYSICAL DESCRIPTION/PROPERTIES

Specific Gravity (25 C) : 2.13
Rel Vap Density : Not app
Vapour Pressure (20 C): Not app
Flash Point (C): Not app
Flammability Limits (%): Not app

Melting Point : 318.0 C
Boiling Point : 1390.0 C
Viscosity : Not app
Decomposition Point (C) : Not available
Sublimation Point : Not app

Safety Data Sheet

SPECIALTY CHEMICAL GROUP

Product Name: CAUSTIC SODA

CDS: 02144
ISSUED 02/2007
PAGE 2

Autoignition Temp (C): Not app
% Volatile by volume: Nil
Water Solubility (g/l) : 420 @ 0 C

pH (1% aq. solution) : 12.7
Evaporation Rate : Not available
(n-Butyl acetate=1

Appearance : White deliquescent solid in various forms such as pellets, flakes, grains, beads, lumps or powder.

Solubility : Soluble in water, alcohol and glycerol.

Reactivity: Strongly alkaline. Absorbs moisture and carbon dioxide from the air. Vigorous exothermic reaction with water. Reacts violently with acids. Reacts with ammonium salts evolving ammonia gas.

In the presence of water it is corrosive to aluminium, tin and zinc evolving hydrogen gas.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

ACUTE EFFECTS

SWALLOWED: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, swelling of the larynx and subsequent suffocation, perforation of the gastrointestinal tract, cardiovascular collapse, coma and death.

EYE: A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes, contact can cause corneal burns.

SKIN: Contact with skin will result in severe irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Corrosive to skin – may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contaminating gloves and boots.

INHALED: Inhalation of dust will result in respiratory irritation. Possible harmful corrosive effects include lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

CHRONIC EFFECTS

Chronic effects are unlikely due to the severity of acute effects.

FIRST AID

SKIN : Immediately wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

EYES : Immediately irrigate with copious quantities of water for at least fifteen minutes. Eyelids to be held open. Remove clothing if contaminated and wash contaminated skin. Seek immediate medical advice.

INHALED: Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.

INGESTION : Thoroughly rinse mouth with water. Give water to drink. **DO NOT** induce vomiting. Seek immediate medical assistance. Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons.

ADVICE TO DOCTOR

Treat symptomatically and as for strongly alkaline corrosive material.

Safety Data Sheet

SPECIALTY CHEMICAL GROUP

Product Name : CAUSTIC SODA

CDS: 02144
ISSUE 02/2007
PAGE 3

TOXICITY

Intraperitoneal LD50 (mouse) : 40 mg/kg (1)

Oral Lowest Lethal Dose (rabbit) : 500 mg/kg (1)

SKIN (rabbit) : severe irritation 500 mg/24H (1)

EYES (rabbit) : severe irritation 1mg/30sec rinse (1)

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.

EXPOSURE STANDARDS

TWA		STEL	
PPM	MG/M3	PPM	MG/M3
-	2	PEAK LIMITATION	

As published by the National Occupational Health & Safety Commission (Worksafe Australia)

Exposures Standard (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.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour work day.

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.

PRECAUTIONS FOR USE

ENGINEERING CONTROLS

Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating and inhaling dusts.

PERSONAL PROTECTION

ICI PERSONAL PROTECTION GUIDE (NO. 2, 1990) : CODE J –OVERALLS, BOOTS, FACE SHIELD OR AIR MASK, GLOVES, APRON

Avoid all contact. Wear overalls, full face shield, elbow-length impervious gloves, splash apron and rubber boots. Use with adequate ventilation. If inhalation risk exists wear air supplied mask meeting the requirements of AS 1715 and AS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Safety Data Sheet

SPECIALTY CHEMICAL GROUP

Product Name: CAUSTIC SODA

CDS: 02144
ISSUED 02/2007
PAGE 4

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Classified as a Class 8 – Corrosive Dangerous Substance for the purpose of transport.

Not to be loaded with explosives (class 1), dangerous when wet substances (class 4.3), oxidising agents (class 5.1), organic peroxides (class 5.2), radioactive substances (class 7), foodstuffs and foodstuff empties, however exemptions may apply.

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 aluminium or galvanised containers. Keep dry. Reacts exothermically with water. Heat evolved may cause boiling or spattering. Check regularly for spills and leaks.

SPILLS

Avoid accidents, clean up immediately. Wash to drain ensuring great dilution.

DISPOSAL

For small quantities, wash area down with large quantities of water.

FIRE/EXPLOSION HAZARDS

Not combustible

ENVIRONMENTAL IMPACT

Avoid contaminating waterways