

MATERIAL SAFETY DATA SHEET

Revised Date:	October 2004
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Classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company Name	Chemwell Products Pty Ltd (ABN 29 060 847 538)
Address	3 Clive Street, Springvale Vic 3171
Phone/Fax	Ph: +61 3 9558 5678 Fax: +61 3 9562 4360
Emergency Telephone	13 11 26 Poison Information Centre (National), 000 Police, Fire, Ambulance
Email	rkiwerc1@iinet.net.au

IDENTIFICATION

Product Code	18-03-01
Product Name	Caustic Soda
Other Name	Sodium Hydroxide, Caustic Soda Pearl
Shipping Name	
UN Number	1823
DG Class	8
Packaging Group	II
Hazchem Code	2X
Poisons Schedule	S6
Product Use	Cleaning compounds; Effluent treatment; Chemical Manufacture.

Physical Data

Appearance	White, deliquescent strongly alkaline solid in various forms –eg mini pearls
Boiling Point	Approx. 1390°C
Vapour Pressure	Not Tested
Specific Gravity	Approx. 2.13
Flash Point	Not Flammable
Flammable Limit LEL	Not Required

Other Properties

PH Value	
Form	Solid
Solubility	Soluble in water (111g/100g of water)

Ingredients

Ingredients	Name	CAS	Proportion %
	Sodium Hydroxide	1310-73-2	100

HEALTH HAZARD INFORMATION**Health Effects**

Acute Swallowed	Highly Corrosive. Could cause severe burns to mouth, throat and stomach. Severe scarring of tissue and death may result. Symptoms include bleeding, vomiting, diarrhoea, fall in blood pressure. Damage may appear days after the exposure.
Acute – Eye	Highly corrosive to eyes. Causes irritation to eyes and with greater

Acute – Skin	exposure could possibly cause permanent damage, including loss of sight. Corrosive to skin. Contact with skin may cause skin burns and scarring.
Acute – Inhaled (MIST)	Severe irritant. Dust may cause irritation to serious damage of the respiratory tract. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.
Chronic	Prolonged contact with dilute solution or dust has a destructive effect upon tissue.

First Aid

Swallowed	If conscious, immediately rinse mouth with large amounts of water and give either water or milk to drink. DO NOT induce vomiting. Seek instant medical assistance. DO NOT give liquids to an unconscious person.
Eye	Immediately irrigate eyes with large amounts of water for at least 15 minutes. Eyelids are to be held open. Seek medical assistance.
Skin	Remove any contaminated clothing and wash before re-use. Wash affected area with large amount of water. Seek immediate medical advice if pain or irritation persists.
Inhaled (MIST)	Remove the victim from exposure. Remove contaminated clothing and loosen the remaining clothing. Keep at rest until fully recovered. If breathing laboured ensure airways are clear and administer oxygen. If breathing has stopped apply artificial respiration at once. Seek immediate medical assistance.
First Aid Facilities	Standard first aid facilities

Advice to Doctor

Advice to Doctor	Treat symptomatically as for strong alkalis.
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Other Health Hazard Information

PRECAUTION FOR USE

Exposure Limits	TWA for Sodium Hydroxide is 2mg/m ³
Engineering Control	Provide local and/or general exhaust ventilation to keep exposure level below the exposure standard. Local exhaust ventilation is preferred because it can control the emissions of the contaminants at its source preventing its dispersion into the general work area.
Other Information	

Personal Protection

Protective Equipment	Eye Protection: Use chemical safety goggles/glasses and face shield.
Personal Protection	Skin Protection: PVC or rubber gloves Avoid contact with eyes and skin. Wash hands before eating, drinking or using the toilet. Avoid skin and eye contact and inhalation of dust. Respiratory protection is required if airborne concentration is high or unknown. Use a mask/respirator if dust levels are high.

Flammability

Fire Hazards	Non-flammable. May liberate flammable hydrogen gas on contact with certain metals such as aluminium.
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SAFE HANDLING INFORMATION

Storage and Transport

Storage & Transport	Classified as a Class 8 dangerous good by the Australian Code for the transport of Dangerous Goods by Road and Rail. Store in a cool, dry well-ventilated place away from sources of heat, moisture and incompatibles. Store away from acids and ammonium salts. Do not store in aluminium or galvanised containers or use die cast Zinc or Aluminium. This product generates heat on dilution with water. Heat evolved may cause boiling or spattering.
Proper Shipping Name EPG Number	

Spills and Disposals

Spills & Disposal	Wear proper protective equipment. Respiratory protection is required in dusty environment. Isolate the leaking containers and contain the leak if it is safe to do so. Sweep up the spill but avoid generating dust. With a clean shovel, transfer spilled material into properly labelled drums for disposal. Prevent from entering drains, sewers, streams or other bodies of water. If contamination of sewers or waterways has occurred, advise the local emergency services. Refer to State/Territory Land Waster Management Authority. Dispose of material through a licensed waste contractor. Empty containers must be decontaminated.
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Fire/Explosion Hazard

Fire/Explosion Hazard	Not considered to be a fire hazard. Hot or molten material can react violently with water. EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding a fire. Water spray, foam, carbon dioxide or dry chemical powder. Fire fighters to wear self contaminated breathing apparatus and full protective clothing when fighting fire. HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, emits sodium oxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.
Hazardous Reaction Hazchem Code	2X

OTHER INFORMATION

Information on Ecological Effects Toxicity	Avoid contamination of waterways. Intraperitoneal LD50 (mouse): 40mg/kg Oral Lowest Lethal Dose (rabbit): 500mg/kg Skin (rabbit): severe irritation 500mg/24hr Eyes (rabbit):severe irritation 1mg/30sec rinse Highly corrosive to any tissue with which it comes into contact. Produces burns, deep ulceration and gelatinous necrotic areas at the site of contact.
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RISK & SAFETY PHRASES

S1/2 Keep locked up and 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.
R35 Causes severe burns
R45 In case of accident or if you feel unwell, seek medical advice immediately

Packaging & Labelling This product contains a schedule poison (S6) and therefore must be maintained in accordance with State Poisons Act. Defined as a 'Dangerous Good' by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Hazard Category Corrosive

CONTACT POINT

TELEPHONE	ORGANISATION	LOCATION	ASK FOR
+61 3 9558 5678 13 11 26 000	Chemwell Products Pty Ltd Poison Information Centre Fire, Police, Ambulance	Springvale, VIC National National	Technical Officer

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

End of MSDS
