

**MATERIAL SAFETY DATA SHEET**

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

**COMPANY DETAILS**

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

**IDENTIFICATION**

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

**Physical Data**

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

**Other Properties**

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

**Ingredients**

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

**HEALTH HAZARD INFORMATION****Health Effects**

<b>Acute Swallowed</b>	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.
<b>Acute – Eye</b>	Highly corrosive to eyes. Causes irritation to eyes and with greater

<b>Acute – Skin</b>	exposure could possibly cause permanent damage, including loss of sight. Corrosive to skin. Contact with skin may cause skin burns and scarring.
<b>Acute – Inhaled (MIST)</b>	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.
<b>Chronic</b>	Prolonged contact with dilute solution or dust has a destructive effect upon tissue.

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### First Aid

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<b>Swallowed</b>	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.
<b>Eye</b>	Immediately irrigate eyes with large amounts of water for at least 15 minutes. Eyelids are to be held open. Seek medical assistance.
<b>Skin</b>	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.
<b>Inhaled (MIST)</b>	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.
<b>First Aid Facilities</b>	Standard first aid facilities

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### Advice to Doctor

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<b>Advice to Doctor</b>	Treat symptomatically as for strong alkalis.
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### Other Health Hazard Information

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### PRECAUTION FOR USE

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<b>Exposure Limits</b>	<b>TWA</b> for Sodium Hydroxide is 2mg/m <sup>3</sup>
<b>Engineering Control</b>	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.
<b>Other Information</b>	

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### Personal Protection

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<b>Protective Equipment</b>	<b>Eye Protection:</b> Use chemical safety goggles/glasses and face shield.
<b>Personal Protection</b>	<b>Skin Protection:</b> 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.

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### Flammability

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


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**Storage and Transport**


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<b>Storage &amp; Transport</b>	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.
<b>Proper Shipping Name EPG Number</b>	

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**Spills and Disposals**


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<b>Spills &amp; Disposal</b>	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**


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<b>Fire/Explosion Hazard</b>	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.
<b>Hazardous Reaction Hazchem Code</b>	2X

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**OTHER INFORMATION**


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<b>Information on Ecological Effects Toxicity</b>	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

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**CONTACT POINT**

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<b>TELEPHONE</b>	<b>ORGANISATION</b>	<b>LOCATION</b>	<b>ASK FOR</b>
+61 3 <b>9558 5678</b> 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.

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**End of MSDS**

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