

**ENVIRO CHEMICALS AUSTRALIA PTY LTD**

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*“Products That Don’t Cost The Earth”*

## **CAUSTIC SODA**

### **98.99% SODIUM HYDOXIDE**

**(Hazardous according to criteria of Worksafe Australia)**

**CAUSTIC SODA** is used to make a solution to generally clean floors and drains.

**CAUSTIC SODA** is also used for making of hard or soft soap.

**CAUSTIC SODA** can be used for removal of old paints.

## **HOW DOES IT WORK? HOW TO USE ?**

### **WHERE TO USE !!! HOW TO USE!!**

**General Cleaning:** Dissolve 110g in 2 litres of water this makes a very effective cleaning solution for the removal of grease from drainpipes , gully traps, concrete floors, barbecues, kitchen utensils and for cleaning of toilets.

**Removal of Paint:** Dissolve 110g in 1 litre of water this makes a very effective corrosive solution for the removal of old paints.

### **CAUTION :**

CAUSTIC SOLUTION will corrode aluminum and galvanized metal surfaces. It will etch glass. In case of spillage flush off immediately to avoid damage.

### **Active Ingredients**

98.99% SODIUM HYDROXIDE

For safety please read MSDS sheet.

*We trust this product will be of interest to you.  
Please do not hesitate to contact us if we can be of further assistance.*



ENVIRO  
CHEMICALS

" Products that don't cost the Earth "



## METERIAL SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Caustic Soda

**Uses:** Drain cleaner, paint remover

**COMPANY DETAILS :**

**Company:** Enviro Chemicals (Aust.) Pty Ltd.  
(A.C.N : 094087493)

**Address:** 740-744 Woodville Road Fairfield East  
NSW 2165.

**Emergency PH:** (02) 9755 2012 (**Business hour**) or

**Poisons Information Centre Telephone: 13 11 26**

## 2. HAZARDS IDENTIFICATION

### STATEMENT OF HAZARDOUS NATURE

**THIS PRODUCT IS CLASSIFIED AS:** XN, HARMFUL, N, DANGEROUS TO THE ENVIRONMENT, C, CORROSIVE. HAZARDOUS ACCORDING TO THE CRITERIA OF SWA. DANGEROUS ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

**RISK PHRASES:** R22, R35, R52. HARMFUL IF SWALLOWED. CAUSES SEVERE BURNS. HARMFUL TO AQUATIC ORGANISMS.

**SAFETY PHRASES:** S20, S23, S26, S28, S46, S61, S24/25, S36/37/39. WHEN USING, DO NOT EAT OR DRINK. DO NOT BREATHE MISTS OR SPRAY. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND CONTACT A DOCTOR OR POISONS INFORMATION CENTRE. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER. IF SWALLOWED, CONTACT A DOCTOR OR POISONS INFORMATION CENTRE IMMEDIATELY AND SHOW THIS MSDS OR LABEL. AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS. AVOID CONTACT WITH SKIN AND EYES. WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

**SUSMP CLASSIFICATION:** S6

**ADG CLASSIFICATION:** CLASS 8: CORROSIVE SUBSTANCES.

**UN NUMBER:** 1719, CAUSTIC ALKALI LIQUID, N.O.S.

**GHS SIGNAL WORD: DANGER**



### HAZARD STATEMENT:

H290: CORROSIVE TO METALS.  
H302: HARMFUL IF SWALLOWED.  
H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  
H402: HARMFUL TO AQUATIC LIFE.

### PREVENTION

P102: KEEP OUT OF REACH OF CHILDREN.  
P260: DO NOT BREATHE FUMES, MISTS, VAPOURS OR SPRAY.  
P264: WASH CONTACTED AREAS THOROUGHLY AFTER HANDLING.  
P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.  
P280: WEAR PROTECTIVE GLOVES, PROTECTIVE CLOTHING AND EYE OR FACE PROTECTION.

### RESPONSE

P310: IMMEDIATELY CALL A POISON CENTRE OR DOCTOR/PHYSICIAN.  
P330: RINSE MOUTH.  
P363: WASH CONTAMINATED CLOTHING BEFORE REUSE.  
P301+P312: IF SWALLOWED: CALL A POISON CENTRE OR DOCTOR IF YOU FEEL UNWELL.  
P303+P361+P351: IF ON SKIN (OR HAIR): REMOVE IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES.  
P304+P340: IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.  
P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.  
P332+P313: IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE.  
P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE.  
P391: COLLECT SPILLAGE.  
P370+P378: NOT COMBUSTIBLE. USE EXTINGUISHING MEDIA SUITED TO BURNING MATERIALS. WATER FOG OR FINE SPRAY IS THE PREFERRED MEDIUM FOR LARGE FIRES.

### STORAGE

P402+P404: STORE IN A DRY PLACE. STORE IN A CLOSED CONTAINER.  
P403+P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

### DISPOSAL

P501: DISPOSE OF SMALL QUANTITIES AND EMPTY CONTAINERS BY WRAPPING WITH PAPER AND PUTTING IN GARBAGE. FOR LARGER QUANTITIES, IF RECYCLING OR RECLAIMING IS NOT POSSIBLE, USE A COMMERCIAL WASTE DISPOSAL SERVICE.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	Percentage	CAS No.
Sodium Hydroxide	<95	6834-92-0

## 4. FIRST AID MEASURES

**Swallowed:** Drink 1 or 2 glasses of water. Do Not induce vomiting. NEVER give anything by mouth to an unconscious person. If symptoms persist seek medical advice.

**Eye Exposure:** Immediately flush eyes with plenty of water holding eyelids open. If eye irritation persists, seek medical advice.

**Skin Exposure:** Wash off with water. If skin irritation persists seek medical advice.

**Inhalation:** Remove victim from exposure to fresh air. If feeling unwell seek medical advice.

### Advice to Doctor

Treat symptomatically based on individual reactions of patient and judgement of doctor.

## 5. FIRE FIGHTING MEASURES

**Hazchem Code:** 2R

### Extinguishing Media

In case of fire, use appropriate media for surrounding fire.

Product is water based and is unlikely to play a contributing role in any fire. Heated product may splatter.

### Special protective precautions and equipment for fire fighters

Fire fighters should wear self contained breathing apparatus and full protective clothing along with protective equipment.

### Hazards from Combustion Products

No data available.

### Flammability Conditions

Product is not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

### **PERSONAL PRECAUTIONS:**

USE PERSONAL PROTECTIVE EQUIPMENT INCLUDING IMPERVIOUS GLOVES AND EYE PROTECTION. SPILT MATERIAL CREATES SLIPPERY CONDITIONS.

### **ENVIRONMENTAL PRECAUTIONS:**

#### **CAUTION:**

KEEP SPILLS AND CLEANING RUNOFF OUT OF DRAINS AND OPEN BODIES OF WATER.

### **METHODS & MATERIALS FOR CONTAINMENT & CLEAN UP:**

CONTAIN SPILLS IMMEDIATELY WITH INERT ABSORBENT MATERIALS (E.G. SAND, EARTH). TRANSFER LIQUIDS AND USED ABSORBENT MATERIAL TO SEPARATE SUITABLE CONTAINERS FOR RECOVERY OR DISPOSAL.

## 7. HANDLING & STORAGE

### **Handling:**

Avoid contact with eyes and skin. Ensure eyewash and safety shower are available and ready for use.

### **Conditions for safe storage**

Store in a cool, dry, well-ventilated area. Keep container tightly closed when not in use. Do not store next to strong oxidizing agents or strong acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limit(s):** Not established for this product For Potassium Hydroxide TLV = 2mg/m<sup>3</sup> – Ceiling Value

**Eye protection:** Wear safety glasses. Eye protection should conform to Australian/New Zealand Standards AS/NZS 1337 – Eye Protection For Industrial Applications.

**Hand protection:** Wear impervious gloves.

**Engineering measures:** Use only in well ventilated area.

**Biological Limit Values:** Not available

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	White Solid
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>pH:</b>	Approximately 12.7 (1% solution in water)
<b>Boiling point/range:</b>	Above 130 deg C
<b>Melting point/range:</b>	318
<b>Flash point:</b>	Non combustible
<b>Lower explosion limit:</b>	Not applicable
<b>Upper explosion limit:</b>	Not applicable
<b>Vapour pressure:</b>	Not established
<b>Relative vapour density:</b>	Not established
<b>Water solubility:</b>	Miscible with water at all proportions
<b>Relative density:</b>	2.13
<b>Viscosity, dynamic:</b>	Not applicable
<b>Evaporation rate:</b>	Not established
<b>Percent volatility:</b>	Not determined

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY & REACTIVITY

**HAZARDOUS REACTIONS:** PRODUCT IS STABLE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TEMPERATURE. DO NOT STORE IN METAL CONTAINERS ESPECIALLY ALUMINIUM.

**MATERIALS TO AVOID:** AVOID CONTACT WITH STRONG ACIDS AND STRONG OXIDISING AGENTS. DO NOT CONTACT WITH ALUMINIUM. OTHER METALS TO AVOID ARE TIN AND ZINC. INCOMPATIBLE WITH PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE AND FLUORINE.

**POLYMERIZATION:** PRODUCT WILL NOT UNDERGO DANGEROUS POLYMERIZATION.

## 11. TOXICOLOGICAL INFORMATION

No data is available for this material

### **Toxicity Data: For Potassium Hydroxide**

Oral Rat LD50: 273mk/kg. Corrosive agent: Inhalation, the skin, the eyes and swallowed. Degree of Acute Toxicity: If swallowed, it is poisonous.

### **Health Effects – Acute**

#### **Swallowed**

If swallowed product will cause severe pain in the oral cavity and the oesophagus, vomiting and diarrhoea. The vomit will contain blood and substances from the insides of a mucous membrane. If patient does not die within 24 hours, he/she will recover for 2 – 4 days, then suffer from sudden pains, abnormal tetany of stomach and rapid fall of blood pressure indicating oesophagus perforation. In case of Esophagostenosis, its early symptoms appear within a few weeks but may appear a few years later.

#### **Eye**

Product will cause conjunctival oedema and corneal destruction. Causes burns and severe eye damage.

#### **Skin**

Product causes severe burns to skin.

#### **Inhaled**

Inhalation of mist causes burns to the respiratory tracts. In case of severe exposure, pneumonia, circulatory disturbance and peritonitis may arise.



## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and degradability:** No information available for this product.

**Mobility in soil:** Miscible with water.

### **Additional information**

**Environmental fate (exposure):** Avoid contaminating waterways, drains and sewers.

**Bioaccumulative potential:** Not expected to bioaccumulate significantly.

## 13. DISPOSAL CONSIDERATIONS

### **Environmental precautions:**

#### **CAUTION:**

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Disposal:** Dispose of in accordance with local, state and federal regulations.



## 14. TRANSPORT

### INFORMATION

#### Australian Code For Transport of Dangerous Goods by ROAD and RAIL

**U.N. Number:** 1823  
**U.N. Proper Shipping Name:** Sodium Hydroxide, solid.  
**Subsidiary Risk:** 8  
**Packaging Group:** II  
**Hazchem Code:** 2W

## 15. REGULATORY INFORMATION

#### Label

Classification and labelling have been performed according to regulations.

**Poison Schedule:** 6

**Australian Inventory of Chemical Substances (AICS) :** Listed

**Dangerous Goods Initial Emergency Response  
Guide (SAA/SNZ HB76):** 37

**Australia. Industrial Chemical (Notification and Assessment) Act (AUSTR).**

All ingredients in this preparation are listed in the Australian Inventory of Chemical Substances, AICS.

## 16. OTHER INFORMATION

Date of Preparation: 04-04-2016

Key to Abbreviations & Acronyms Used in MSDS:

<	Less Than
>	Greater Than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
LC50	LC stands for lethal Concentration. LC50 is the concentration of a material in air which causes death of 50% (one half ) of a group of test animals.
LD50	LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
NOHSC	National Occupational Health and Safety Commission.
PEL	Permissible Exposure Limit.
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations (Number)
deg C (°C)	Degrees Celsius
g	Gram
g/cm <sup>3</sup>	Grams per cubic centimetre
g/l	Grams per litre
Immiscible	Liquids are insoluble in each other
kg	Kilogram
kg/m <sup>3</sup>	Kilograms per cubic metre
ltr	Litre
m <sup>3</sup>	Cubic metre
mg	Milligram
mg/24H	Milligrams per 24 hours
mg/kg	Milligrams per kilogram
mg/m <sup>3</sup>	Milligrams per cubic metre
miscible	Liquids form one homogeneous liquid
ppm	Parts per million
wt	weight

## **LITERATURE REFERENCES:**

SUPPLIES MSDS THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT.

**END OF MSDS**