



**8/217 Mickleham Rd Tullamarine, Vic 3043**  
**PHONE: (03) 9933 1100 FAX: (03) 9338 2688**

**MATERIAL SAFETY DATA SHEET**

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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.

**Contact technical officer: (03) 9933 1100**

**Product: CAUSTIC CLEANER**

**STATEMENT OF HAZARDOUS NATURE:** Hazardous according to criteria of NOHSC/ASCC.

**PRODUCT IDENTIFICATION**

UN No: 1814  
D.G. Class: 8  
HAZCHEM: 2R  
G.T. EPG: 8A1  
Harmoniz 3402.11  
Packaging Group II  
Poison Schedule: 6  
Spec. E.P.G.: 8.0.007

**USE:** A high alkaline liquid cleaner for removing grease and grime from hard surfaces.

**INGREDIENTS:**

	<b>CAS No</b>	<b>PROPORTION</b>
Potassium hydroxide	7664-38-2	< 10%
Sodium metasilicate	6834-92-0	< 10%
Sodium tripolyphosphate	7758-29-4	<10%
Phosphate ester surfactant	92092-23-4	< 10%
Technical Blue dye	71-872-74-7	Trace
Water	7732-18-5	Balance

**PHYSICAL DESCRIPTION / PROPERTIES:**

Appearance: A blue liquid of moderate viscosity.  
Soluble in water to yield moderately foaming solutions

Boiling Range: Approximately 100°C

Melting Range: < 0° C

Vapour Pressure: 18mm/Hg @ 20°C

Specific Gravity: 1.21 ± 0.2 @20°C

Flash Point: Non Flammable

pH: as received 14.0 ± 0.5

N/A: - Not applicable.

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**HEALTH HAZARD INFORMATION**

**Toxicity Data:**

Oral Lowest Lethal Dose (Rabbit)	125mg/kg
Oral LD50 (Mouse)	40mg/kg

**IRRITATION DATA:**

Skin :	Rabbit	500mg/24 hours	Severe
Eye :	Rabbit	400micrograms	Mild
Eye :	Rabbit	1%	Severe
Eye :	Rabbit	50micrograms/24 hours	Severe

**Acute Effects:**

**Swallowed:**

May cause severe burns to the mouth, throat and stomach. Will cause severe damage to the mucous membranes.  
Ingestion can result in nausea, vomiting, diarrhoea, abdominal pain, and/or convulsions.  
Can kill if swallowed.  
May lead to CNS depression.

**Eyes:**

A severe eye irritant.  
Corrosive to eyes: contact can cause corneal burns.  
Permanent eye damage, including loss of sight, may occur.

**Skin**

Corrosive to skin - may cause skin burns.

**Inhaled:**

Harmful by inhalation.  
Inhalation of mists or aerosols can produce respiratory irritation.  
May cause bronchitis, pneumonia and pulmonary oedema.  
May induce a burning sensation in the chest.  
Not considered a feature of normal use.

**FIRST AID:**

**Swallowed:**

Rinse mouth thoroughly with water immediately. Give water to drink. **DO NOT INDUCE VOMITING.**  
If vomiting occurs, give further water to achieve effective dilution.  
Seek immediate medical assistance.  
Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons.  
(Melbourne : (03) 9345 5522.)

**Eyes:**

Immediately irrigate with copious quantity of water for at least 15 minutes.  
**Eyelids to be held open.**  
Flush with 1% Boric acid solution.  
Urgently seek medical assistance. Transport to the hospital or medical centre.

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**HEALTH HAZARD INFORMATION**

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First Aid cont.

Skin:

Immediately wash affected areas 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.  
Not considered a feature of normal use.

Advice to Doctor:

Treat symptomatically as for strong alkalis.  
Can cause corneal burns.  
Delayed pulmonary oedema may result.

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

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**PRECAUTIONS FOR USE**

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Exposure Limits:

Exposure Standards (as Potassium hydroxide), 2mg/m Ceiling (NOHSC/ASCC).  
Exposure Standards is the time weighed average concentration of the work atmosphere over a normal 8 hour work day and a 40 hour work week.  
Nearly all workers may be repeatedly exposed to this level, day after day, without adverse effects. These exposure standards are issued as guidelines for good practice. All atmospheric contamination should be kept to as low a level as is practically possible. These exposure standards should not be used as fine lines between safe and dangerous concentrations. A "Skin" notation indicates that this substance will also be readily absorbed through the skin, which may be airborne material or direct contact. The exposure limit is obviously invalidated if such contact should occur.

Ceiling Value - is the concentration that should not be exceeded even instantaneously.

Engineering Controls:

Use with adequate ventilation.  
Maintain concentration below recommended exposure limit.  
Avoid generation and inhalation of mists or aerosols.

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**HEALTH HAZARD INFORMATION**

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Personal Protection:

The following personal protective equipment should be worn when using the concentrate and solutions:

- faceshield
- chemical goggles
- PVC or rubber gloves
- splash apron
- impervious overalls or similar protective apparel
- rubber boots.

If risk of inhalation of spray mist exists, wear combined organic vapour/particulate respirator. If using a respirator ensure that the cartridges are correct for the potential air contamination and are in good working order.

Wash contaminated clothing and protective equipment before storing/re-using.

Avoid skin and eye contact.

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

Flammability:

Non combustible. Non flammable.

Environment:

This substance may be hazardous to the environment; special attention should be given to ensuring adequate dilution to reduce the concentration of alkaline salts or neutralizing to less than pH8 before permitting entry to the environment.

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**SAFETY HANDLING INFORMATION**

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Storage & Transport:

Keep containers securely sealed and protected against physical damage at all times.

Do not use aluminum or galvanized containers.

Store away from acids.

Steel or plastic containers suitable.

This product is categorised as Class 8 - Corrosive in the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Spills and Disposal:

Slippery when spilt. Avoid accidents, clean up immediately.

Isolate leaking containers and stop leak if safe to do.

Use absorbent (soil or sand, sawdust, inert material, vermiculite). Sweep up, collect and seal in properly labeled plastic drums for disposal. Wash away residues with water.

Flush to sewer (if permitted by local regulations).

The following protective equipment should be worn; safety glasses, goggles or faceshield as appropriate.

Impervious gloves, overalls or similar protective apparel.

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CONTACT TECHNICAL MANAGER (03) 9583 4241

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Reactivity Data:

The solution in water is a strong base, it reacts violently with acid and is corrosive to aluminum and zinc.  
Attacks many metals forming combustible gas (hydrogen).

Fire/Explosion Hazard:

Non combustible.  
The product is strongly alkaline and hence may react with some metals to produce hydrogen, a flammable gas.  
In case of fire in the surroundings, use the appropriate extinguishing method for the area.

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REVISED DATE 14<sup>th</sup> December 2007

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