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## MATERIAL SAFETY DATA SHEET

Hazardous according to the criteria of Worksafe Australia.

### I IDENTIFICATION

Product Name: Barmate Liquid

Other Names: Correct Shipping Name is CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.\*

Product Code: None.

UN No: 3262

Hazchem Code: 2R

Dangerous Goods Class: 8 Corrosive Substances.

Sub Risk Class: None allocated.

Packaging Group: II

EPG: 8A1

Poison Schedule: S6

Chemical Family: Water solution of inorganic alkaline ingredients.

Uses: Beerline and glass cleaner.

### Physical Appearance & Properties

Appearance & Odour: Water clear liquid. Fresh "chlorine" odour.

Melting/softening point: Approximately 0°C.

Boiling point and vapour pressure: Approximately 100°C at 100kPa.

Volatile materials: Water component.

Flashpoint: Does not burn.

Specific gravity: No data.

Solubility in water: Completely soluble.

Corrosiveness: Very corrosive

Ingredients			Worksafe	
Exposure Limits				
Chemical Entity	CAS No	Proportion, %	TWA, mg/m <sup>3</sup>	
Potassium hydroxide	1310-58-3	5-10	2	
Alkaline salts	secret	15-25	not set	not
set				
Sodium hypochlorite	7758-19-2	3-5	not set	not
set				
Water	7732-18-5	to 100	not set	not
set				

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### II HEALTH HAZARD DATA

#### Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

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## Acute Effects:

Swallowed: Data suggests that this product is corrosive to the gastrointestinal tract. Will cause burning to mouth and throat, possible irreversible problems, even death unless treated promptly.

Eye: This product is corrosive to the eyes. It will quickly cause intense discomfort such as severe pain, copious watering and redness of the eyes. Unless quickly treated, corrosive effects leading to permanent corneal damage, even blindness will occur.

Skin: This product is corrosive to skin. It will cause effects such as severe itchiness, blistering and skin reddening and death of skin tissues. Exposure may lead to permanent damage including scarring.

Inhalation: Data indicates that this product is irritating if inhaled. Will cause discomfort to throat and lungs and/or coughing which should disappear once exposure has ceased.

## First Aid:

Eyebaths or eyewash stations and safety deluge showers should be provided where this product is being used.

If poisoning occurs, contact a Doctor or Poisons Information Centre.

Eyes: If this product comes into contact with eyes, hold open and wash with running water. Do not try to remove contact lenses unless trained. Seek immediate medical attention.

Skin: If product gets on skin, immediately remove contaminated clothing and wash skin with soap and running water for at least 15 minutes. Seek immediate medical attention if skin blisters, or if it looks or feels unusual. If safety shower is available, use it promptly. If you have the time and resources, see if you can neutralise the corrosive medium, especially if on face, in eyes or in/on other sensitive areas.

Inhalation: If vapours or mists or have been inhaled, and irritation or unusual symptoms develop, remove to fresh air and observe until recovered. If irritation or symptoms persists more than about 30 minutes, seek medical advice.

Advice to Doctor: Treat symptomatically. Note the nature of this product.

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## III PRECAUTIONS FOR USE

Risk Phrases: R35, R37, R41. Causes severe burns. Irritating to respiratory system. Risk of serious damage to eyes.

### Exposure Standards:

A time weighted average (TWA) has been established for Potassium hydroxide, present in significant quantities in this product. This value is  $2\text{mg}/\text{m}^3$ . The corresponding STEL level is "Peak". The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

### Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

### Personal Protection:

Respiratory Protection: If there is a significant chance of dusts, vapours or mists accumulating in the area where this product is being used, a mask or respirator should be used. For help in selecting equipment, consult AS/NZS 1715.

Protective Gloves: Impermeable protective gloves must be worn when you are using this product. Failure to do so will lead to burns to the skin, and likely scarring. All skin areas must be covered. For help in selecting suitable equipment, consult AS 2161.

Eye Protection: Protective eyewear must be worn when using this product. Coverage should extend to all facial areas. Eye contact will prove at best painful and will probably cause irreversible damage if contact is other than brief. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

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Clothing: Clean impermeable overalls or protective clothing should be worn, preferably with an apron. If contaminated, laundry should be advised of the nature of the contamination, or, preferably, clothing should be destroyed. Consult AS2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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## IV SAFE HANDLING INFORMATION

Safety Phrases are: S20, S23, S26, S28, S29, S36/39. When using, do not eat or drink. Do not breathe gas/fumes/vapour/spray (specify). 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. Do not empty into drains. Wear suitable protective clothing and eye/face protection.

### Storage & Transport

This product is classed as UN3262, Dangerous Goods Class 8 Corrosive Substances. Correct Shipping name is CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.\*. Class 8 Corrosive Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Poisonous Substances where the Poisonous Substances are cyanides and the Corrosives are acids), 7 (Radioactive Substances), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Poisonous Gases), 3 (Flammable liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 6 (Poisonous Substances except where the Poisonous Substances are cyanides and the Corrosives are acids) and 9 (Miscellaneous Dangerous Goods). This product is a S6 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

### Spills & Disposals

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective chemically resistant clothing including face mask, face shield, gauntlets and self contained breathing apparatus. See above under Personal Protection regarding Australian Standards relating to personal protective equipment. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area preventing runoff from entering drains. If material enters drains, advise emergency services. Contaminated area may be neutralised by washing with weak or dilute acid. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

### Fire & Explosion Hazard

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Flashpoint: Does not burn.

Flammability limits: Not applicable. This product does not burn.

Extinguishing Media: This product does not burn. Use extinguishing media suited to the materials that are burning.

Special Fire Fighting procedures: When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat goggles and respirator. All skin areas should be covered. Aim to dilute material with large quantities of water. If practical, contain diluted material and prevent from entering drains and water courses.

Unusual Fire & Explosion Hazards: This product is unlikely to decompose at temperatures normally achieved in a fire. Likely to decompose only after heating to dryness followed by further strong heating.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.

Decomposition Products: No decomposition products are expected at temperatures normally achieved in a fire.

Materials to avoid: acids.

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### V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

#### Contact Point:

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Please read all labels carefully before using product.

Disclaimer: All information given in this data sheet and by the company's technical staff is compiled from the best information currently available to the company. The company accepts no responsibility whatsoever for its accuracy or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at his own risk, and the company will not be liable for any loss or damage thereby suffered notwithstanding any want or care on the part of the company or its staff in compiling or giving the advice or information.

Prepared by Kilford & Kilford Pty Ltd, March 1999  
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