



## Section 1: Identification of the Material and Supplier

**Product Name:** Boumatic Guard 100

**Other Names:** Aqueous caustic solution.

**Proper shipping name (ADG Code):** Caustic alkali liquid, n.o.s.  
(sodium hydroxide, potassium hydroxide)

**Recommended use:** As a cleaning solution.  
Use as directed on the product label.

**Supplier:** DASCO Pty. Ltd.,  
ABN: 14 004 581 113  
24 - 26 Helen Street, HEIDELBERG HEIGHTS VIC 3081  
Tel: (03) 9459 7004 (business hours)  
Fax: (03) 9459 9200

**Emergency Phone Numbers:**  
Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.

Dangerous goods.

**Risk Phrases:** R: 35 Causes severe burns.

**Safety Phrases:** S: 1/2 Keep locked up and out of the reach of children.  
S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S: 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S: 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## Section 3: Composition/Information on Ingredients

**Ingredients:**

Sodium hydroxide	[1310-73-2]	10 - 30 %
Potassium hydroxide	[1310-58-3]	< 10 %
Other ingredients deemed not to be hazardous		10 - 30 %
Water	[7732-18-5]	to 100 %

## Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131 126) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eyes: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Center or a doctor, or for at least 15 minutes.

Inhaled: Remove from exposure, rest and keep warm. Seek medical advice.

### First Aid facilities:

Mandatory: Eye wash. Hand wash basin.

Recommended: Emergency shower if handling industrial quantities.

### Advice to Doctor:

Product is an aqueous solution containing a mixture of sodium and potassium hydroxides. Corrosive, causes severe burns. Risk of serious eye damage. If swallowed, may cause holes in the intestines. Gastric lavage may be contraindicated. Contact Poisons Information Centre.

### Aggravated medical conditions:

No data found.

## Section 5: Fire Fighting Measures

HAZCHEM Code: 2 R

Evacuate: No.

Extinguishant: Water fog or fine water spray.

Risk of violent reaction or explosion: No.

Products of combustion: Water vapour, oxides of sodium, oxides of potassium, oxides of phosphorus.

Protective Equipment: Full protective clothing including breathing apparatus and protective gloves.

## Section 6: Accidental Release Measures

### **Emergency Procedures:**

Contain.

### **For large spills:**

Contain spillage using sand or earth. Transfer both liquids and solids to suitable container. Treat residues as for small spillages.

### **For small spills:**

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to suitable container and arrange removal by disposals company.

## Section 7: Handling and Storage

### **Precautions for safe handling:**

Avoid contact with skin and eyes.

Keep away from acids, wood and wood products, aluminium, tin and zinc.

### **Conditions for safe storage:**

Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded dangerous goods store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from acids, light metals, ammonium compounds, wood and paper products. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

### **Incompatibles:**

Acids, light metals (such as aluminium, tin, zinc), ammonium compounds, wood and paper products.

## Section 8: Exposure Controls/Personal Protection

### National Exposure Standards:

<b>ES-TWA:</b>	Sodium hydroxide	2 mg/m <sup>3</sup>
	Potassium hydroxide	2 mg/m <sup>3</sup>
<b>ES-STEL:</b>	None assigned.	
<b>ES-PEAK:</b>	Sodium hydroxide	2 mg/m <sup>3</sup>
	Potassium hydroxide	2 mg/m <sup>3</sup>

**Notations:** None.

*[Peak] indicates a ceiling concentration which should not be exceeded, even momentarily.*

**Biological Limit Values:** No data found.

### Engineering Controls:

Avoid using wood, wood products, aluminium, tin, zinc or galvanised iron as materials of construction.  
Ensure adequate ventilation (same as outdoors) when using.  
If handling industrial quantities, or if aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible, and at least below the TLV.

### Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing aerosols.  
Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

#### Normal Use:

Eye/face protection  
Gloves, rubber or plastic.

#### Industrial Quantities:

Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance: Clear, slightly viscous, tan or brown liquid.  
Odour: Characteristic odour.  
pH: 13 (1 % in water)  
Vapour Pressure: No data.  
Vapour Density: No data.  
Boiling Point: > 100 °C  
Melting Point: No data.  
Volatiles: 55.5 % [water]  
Volatile Organic Compounds (VOC): Nil.  
Evaporation Rate: No data.  
Solubilities: Miscible with water in all proportions.  
Specific Gravity/Density: 1.44 g/mL @ 20 °C  
Flash Point: None.  
Flammable Limits: None.  
Dust Explosion: Not applicable.  
Auto-ignition Temperature: No data.

### Other Information:

Highly alkaline solution. Will react vigorously or violently with acids and acidic salts. Contact with light metals may generate hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. May attack wood and paper products. May attack glass on prolonged contact. Will absorb carbon dioxide from the air, forming sodium and potassium carbonates. Incompatible with organic halides and nitro compounds. Slippery when spilled.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Incompatible materials, exposure to air.

**Incompatible Materials:** Acids, light metals, wood and paper products, ammonium compounds, nitro compounds, organic halides, glass.

**Hazardous Decomposition Products:** Sodium and potassium oxides, oxides of phosphorus.

**Hazardous Reactions:** May react violently with acids. Contact with light metals may generate hydrogen. Contact with ammonium compounds may generate ammonia. May form shock-sensitive products with nitro compounds. May react violently with organic halides.

## Section 11: Toxicological Information

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

<b>Acute:</b>	<b>Swallowed:</b>	Corrosive, causes severe burns. Can cause burns to the mouth and throat, nausea, vomiting, abdominal pains, diarrhoea (occasionally bloody), fall in blood pressure, heart failure, coma and death. May cause swelling of the larynx and subsequent suffocation. Can cause perforation of the stomach and intestines, and the sites of subsequent scarring have been associated with stomach cancer formation. Damage may not become evident until days after exposure/contact, but may still prove fatal.
	<b>Skin:</b>	Corrosive, causes severe burns. Mists or aerosols may cause small burns, redness, pain.
	<b>Eyes:</b>	Liquid contact with the eyes may cause rapid and severe damage to the tissues. May cause redness, pain and blurred vision. May cause severe, deep burns and permanent impairment to, or total loss of, sight.
	<b>Inhaled:</b>	Inhalation of aerosols may cause damage to the upper respiratory tract and to the lungs. Effects may range from mild irritation of mucous membranes to severe pneumonitis (irritation of lung tissues). May cause coughing, a burning sensation, laboured breathing, sneezing, sore throat and runny nose. Inhalation of aerosols may cause oedema (fluid in the lungs). Onset of symptoms may be delayed.
<b>Chronic:</b>	Repeated skin exposure to aerosols or low concentrations may result in dermatitis.	
<b>LD50:</b>	Sodium hydroxide	40 mg/kg, i.p., mouse.
	Potassium hydroxide	273 mg/kg oral, rat.
<b>LDLo:</b>	Sodium hydroxide	500 mg/kg oral, rabbit.

(i.p.: intraperitoneal)

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Harmful to aquatic organisms.
<b>Persistence and degradability:</b>	No data.
<b>Mobility:</b>	Readily transported by water.
<b>Environmental Fate:</b>	No data.
<b>Bioaccumulative potential:</b>	No data.
<b>Other adverse environmental effects:</b>	No data.

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

**Disposal methods and containers:**

Avoid disposal to drains, natural waters or the environment.  
Do not use metal containers.

**Special precautions for landfill or incineration:**

Not suitable for incineration.  
May not be suitable for some landfill sites.

## Section 14: Transport Information

<b>UN Number:</b>	UN 1719
<b>UN Proper shipping name:</b>	Caustic alkali liquid, n.o.s. (sodium hydroxide, potassium hydroxide)
<b>Class and subsidiary risk:</b>	8 Corrosive.
<b>Packaging group:</b>	II
<b>Special precautions for user:</b>	Do not store or transport with dangerous goods of classes 1, 4.3, 5.1, 5.2, 7, 8 (acids), foodstuffs and foodstuff empties.
<b>HAZCHEM Code:</b>	2 R
<b>Material for export:</b>	Regulated. Refer to <b>IMO\IMDG</b> and <b>IATA\ICAO</b> .

