

# SAFETY DATA SHEET

## POTASH 48 : ALKALINE CLEANER

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

**Product Name** POTASSIUM HYDROXIDE SOLUTION  
**Product Code** 135  
**Product Use** Neutralizing agent , pH adjuster, alkaline cleaner.  
**Company Name** Byre Chemicals  
**Address** 3/43 Byre Avenue  
 Somerton Park SA 5044  
**Telephone** 08 8350 9228  
**Fax** 08 8350 9334  
**Emergency phone no.** 0412 426 697  
**Email** [info@byrechemicals.com.au](mailto:info@byrechemicals.com.au)

### 2. HAZARDS IDENTIFICATION

**GHS Classification** H290 Corrosive to metals Category 1  
 H302 Harmful if swallowed Category 4  
 H314 Causes severe skin burns and eye damage. Category 1A  
**Signal Word** DANGER  
**Hazard Statement** Harmful if swallowed  
 Causes severe burns and eye damage  
**Precautionary Statement**  
 Avoid contact with skin and eyes  
 Wear eye protection and rubber gloves  
 Avoid inhaling mists  
 If swallowed DO NOT induce vomiting. Give water or milk. Seek immediate medical help.  
 Splashes on skin to be washed off immediately  
 If splashed into eyes , remove contact lenses if present and wash with clean running water for 15 minutes. Seek medical attention immediately.  
 Keep containers tightly closed and store in a lock-up facility.

**Pictograms**



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS.NO.	PROPORTION
Potassiu Hydroxide	1310-58-3	30 - 60 %
Water		Balance

**BYRE CHEMICALS**

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### **4. FIRST-AID MEASURES**

<b>INHALATION</b>	<i>Avoid generating mists. Remove casualty from contaminated area</i>
<b>INGESTION</b>	<i>If swallowed Do Not induce vomiting. Give water or a glass of milk. If breathing has stopped, give artificial respiration. Transport to hospital.</i>
<b>SKIN</b>	<i>If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. If irritation persists, seek medical advice.</i>
<b>EYE</b>	<i>If in eyes, hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention</i>
<b>FIRST AID</b>	<i>Eye wash. Safety shower , hand wash basin</i>
<b>ADVICE TO DOCTOR</b>	<i>Treat symptomatically</i>

### **5. FIREFIGHTING MEASURES**

<b>Extinguishing Media</b>	<i>Carbon dioxide, or foam</i>
<b>Hazards from Combustion</b>	<i>Material won't burn but may emit carbon dioxide including carbon monoxide gas. Contact with some metals including aluminium and zinc will liberate flammable hydrogen gas</i>
<b>Precaution for Firefighter</b>	<i>Wear chemical suit. Prevent run off from entering drains and waterways.</i>

### **6. ACCIDENTAL RELEASE MEASURES**

**EMERGENCY PROCEDURE**  
*Evacuate all unauthorised personnel. Do not breathe fumes or handle damaged containers  
 For small spills hose down area. For large spills absorb onto an inert material such as dirt or sand.  
 The collected material should then be transferred into suitable containers , labelled and disposed of  
 in an appropriate way.  
 Dispose of waste according to applicable local and national regulations*

### **7. HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**  
*Wear appropriate protective clothing  
 Avoid inhalation of vapours and mists and skin or eye contact. Use only  
 in a well ventilated area. Keep containers sealed when not in use.  
 Prevent the build up of mists and vapours in the work atmosphere. Do  
 not use near ignition sources, cut, heat containers as they may produce  
 hazardous fumes. Maintain high standards of personal hygiene ie  
 washing hands prior to eating, drinking, smoking or using toilet  
 facilities*

**CONDITIONS FOR SAFE STORAGE**  
*Corrosive liquid . Store in a cool, dry, well ventilated area away from  
 sources of ignition, oxidising agents , strong acids, peroxides, foodstuffs  
 and clothing. Large quantities should be stored in a bunded dangerous  
 goods store. Prevent contact with aluminium, tin, zinc or galvanised  
 iron .Store in original containers*

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure Limits</b>	<i>Potassium Hydroxide 2mg/m3</i>
<b>Engineering Controls</b>	<i>This substance is hazardous</i>
<b>Eye Protection</b>	<i>Safety glasses with side shields should be used.</i>
<b>Hand Protection</b>	<i>Wear gloves of impervious material such as neoprene, or nitrile rubber.</i>
<b>Hygiene Measures</b>	<i>Avoid contact with skin, eyes and clothing Wash hands after handling product. Keep away from foodstuffs.</i>
<b>Skin &amp; Body Protection</b>	<i>Wear rubber apron</i>

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Nil
pH	Above 13
Boiling Point	Above 100C
Vapour Pressure	Not Applicable
Flash Point	None
Specific Gravity	1.45
Solubility in Water	Miscible in all proportions. Evolves heat on dilution with water.

### 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to avoid	Excess heat exposure to air
Incompatible materials	Acids, strong oxidising agents.
Hazardous decomposition	Thermal decomposition may result in release of irritating fumes including carbon dioxide and carbon monoxide
Hazardous polymerization	Will not occur

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity Ingestion	Oral LD50 ( Rabbit ) 500 mgm/kg Corrosive. Harmful if swallowed. May cause burns to mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring
Eyes	Corrosive. Causes severe burns which can result in permanent injury or blindness
Skin	Causes severe irritation and if untreated burns
Carcinogenic	No evidence of carcinogenic properties
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis.

### 12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/Degradability	Low
Mobility	Soluble in water
Bioaccumulative Potential	No data available
Environmental	Do not discharge into drains, sewers, waterways

### 13. DISPOSAL CONSIDERATIONS

Spills & Disposal	Disposal of small spillages only. For large spillages liquids should be contained using sand or earth and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and for flammable materials, shut off all possible sources of ignition.
Disposal	Land fill, sewer (small quantities). Refer to Land Waste Management Authority in your State

**POTASH 48 : ALKALINE CLEANER****14. TRANSPORT INFORMATION**

<b>Transport Information</b>	<b>This material is classified as Dangerous Goods Class 8 Class 8 goods are incompatible with the following Class 1 Explosives Class 5.1 Oxidising substances Class 5.2 Organic peroxides</b>
<b>Proper Shipping Name</b>	<b>POTASSIUM HYDROXIDE SOLUTIONS</b>
<b>UN.NO.</b>	<b>1814</b>
<b>Packaging Group</b>	<b>11</b>
<b>Hazchem Code</b>	<b>2R</b>
<b>DG Class</b>	<b>8</b>

**15. REGULATORY INFORMATION**

<b>Regulatory Information</b>	<b>Classified as hazardous according to criteria of NOHSC Poisons Schedule S6</b>
<b>Hazard Category</b>	<b>Corrosive, irritant to skin</b>
<b>Risk Statement</b>	<b>Causes severe burns.</b>
<b>Safety Statement</b>	<b>Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Wear suitable gloves and eye/face protection. In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately.</b>

**16. OTHER INFORMATION**

<b>Preparer Signature</b>	<b>Technical Director</b>
<b>Contact</b>	<b>Telephone: 08 8350 9228 24 hour emergency number 0412 426 697</b>

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