



## Section 1: Identification of the Material and Supplier

**Product Name:** Glisson

**Other Names:** Potassium hydroxide solution.

**Proper shipping name (ADG Code):** Potassium hydroxide solution, 33 %

**Recommended use:** As a detergent in automatic dishwashers. Use as directed on the product label.

**Supplier:** Hunters Products (TAS) Pty. Ltd.,  
A.C.N. 004 601 263

**HEAD OFFICE**

60 Gleadow Street,  
INVERMAY TAS 7248  
Tel: 03 6331 4755  
Fax: 03 6334 1065

**HOBART OFFICE**

105 Albert Road,  
MOONAH TAS 7009  
Tel: 03 6228 7955  
Fax: 03 6228 7988

**BURNIE OFFICE**

22 Pearl Street,  
WIVENHOE TAS 7320  
Tel: 03 6431 9627  
Fax: 03 6432 2083

**Emergency Phone Numbers:**

Transport/Fire Emergency:	<b>000</b>	(Emergency services)
Medical Emergency:	<b>131126</b>	(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.
R: 22	Harmful if swallowed.

**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 when possible).

## Section 3: Composition/Information on Ingredients

### Ingredients:

Potassium hydroxide	[1310-58-3]	30 - 60 %
Other alkaline salts		< 10 %
Other ingredients		10 - 30 %
Water	[7732-18-5]	to 100 %

## Section 4: First Aid Measures

**For advice, contact a Poisons Information Centre (Phone 131126) 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 Centre or a doctor, or for at least 15 minutes.

Inhaled: Remove from exposure, rest and keep warm.

### First Aid facilities:

Mandatory: Eye wash. Hand wash basin.

Recommended: Emergency shower if handling industrial quantities.

### Advice to Doctor:

Product is a moderately concentrated aqueous solution of potassium hydroxide containing a dispersant and a sequestering agent. Corrosive, causes burns. If swallowed, may cause holes in the stomach and 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, potassium oxide, oxides of nitrogen.

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

## Section 6: Accidental Release Measures

**Emergency Procedures:**

Contain.

**For large spills:**

Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills.

**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 and transfer to suitable container. Wash site of spillage thoroughly with water and detergent.

## Section 7: Handling and Storage

**Precautions for safe handling:**

Avoid contact with skin and eyes.  
Avoid breathing aerosols.  
Keep away from active metals, such as 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 banded dangerous goods store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from acids, ammonium compounds, active metals. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

**Incompatibles:**

Acids, ammonium compounds, active metals.

## Section 8: Exposure Controls/Personal Protection

**National Exposure Standards:**

**ES-TWA:** Potassium hydroxide 2 mg/m<sup>3</sup>

**ES-STEL:** None assigned.

**ES-PEAK:** Potassium hydroxide 2 mg/m<sup>3</sup>

**Notations:** None assigned.

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

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

**Engineering Controls:**

Do not use aluminium, tin, zinc or galvanised iron, wood or wood products 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, colourless liquid.
Odour:	Odourless.
pH:	About 14
Vapour Pressure:	No data.
Vapour Density:	No data.
Boiling Point:	> 100 °C
Melting Point:	No data.
Volatiles:	About 40 % [as water]
Volatile Organic Compounds (VOC):	Nil.
Evaporation Rate:	No data.
Solubilities:	Miscible with water.
Specific Gravity/Density:	1.26 g/mL @ 20 °C
Flash Point:	None.
Flammable Limits:	None.
Dust Explosion:	Not applicable.
Auto-ignition Temperature:	No data.

**Other Information:**

Highly alkaline solution. May absorb carbon dioxide from the air.  
Will react vigorously or violently with acids and acidic salts.  
Contact with active metals, such as aluminium, tin and zinc, may generate hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. Will attack wood and wood products. May attack glass on prolonged contact. Corrosive to living tissues. Slippery when spilled.

## Section 10: Stability and Reactivity

- Chemical Stability:** Stable under normal conditions.
- Conditions to Avoid:** Incompatible materials.
- Incompatible Materials:** Acids, active metals, wood and wood products, ammonium compounds, glass.
- Hazardous Decomposition Products:** Oxides of nitrogen.
- Hazardous Reactions:** May react violently with acids. Contact with active metals may generate hydrogen. Contact with ammonium compounds may generate ammonia. Contact with organic halogen compounds, especially trichloroethylene, may cause fire or explosion. Contact with nitromethane, or other nitro compounds, may form shock-sensitive salts.

## Section 11: Toxicological Information

**Health Effects:**

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

- Acute:**
- Swallowed:** Harmful if swallowed. May cause severe burns to the mouth, throat and epigastrium. May cause a burning sensation and intense pain in the throat and abdomen. May cause holes in the stomach and intestines. If not immediately fatal, may cause stricture of the oesophagus. Very small doses are likely to cause gastric upset, nausea, vomiting and diarrhoea.
  - Skin:** Corrosive, may cause redness, pain and serious skin burns.
  - Eyes:** Corrosive, may cause severe burns. May cause redness, pain, blurred vision, or even immediate severe burns leading to loss of sight.
  - Inhaled:** Inhalation of aerosols may cause a burning sensation in the nose, throat and lungs, sneezing, coughing, laboured breathing and sores in the nose. Even slight exposure to aerosols may lead to pulmonary oedema (fluid build up in the lungs) which may become life-threatening. Onset of symptoms may be delayed.
- Chronic:** Repeated or prolonged skin contact may lead to dermatitis.
- LD50:** Potassium hydroxide 273 mg/kg oral, rat.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Harmful to living 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 natural waters or the environment.  
Avoid using metal containers; use suitable plastic containers.

**Special precautions for landfill or incineration:**

Unsuitable for incineration.

## Section 14: Transport Information

<b>UN Number:</b>	UN 1814
<b>UN Proper shipping name:</b>	Potassium hydroxide solution, 33 %
<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 classes 1, 4.3, 5.1, 5.2, 7, 8 (if acidic), or with foodstuff or foodstuff empties. Do not allow contact with active metals, such as aluminium, tin or zinc, or with wood or wood products.
<b>HAZCHEM Code:</b>	2 R
<b>Material for export:</b>	Regulated. Refer to <b>IMO/IMDG</b> and <b>IATA/ICAO</b> .

## Section 15: Regulatory Information

**Poisons (SUSDP):** Schedule S6  
*Potassium hydroxide > 5 %*

**Dangerous Goods:** Yes. UN 1814 8/II 2 R

**Carcinogen:** **Australia** **IARC** **NTP** **RTECS**  
No. No. No. No.

**Agricultural and Veterinary Chemicals Act:** Not applicable.

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

**Other National/International Regulations:** No data.

## Section 16: Other information

**Date of MSDS update:** September 2005

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
 ACGIH - American Conference of Governmental Industrial Hygienists.  
 MAK - Maximum workplace concentration - Germany,  
 (*maximale Arbeitsplatzkonzentration*)  
 IARC - International Agency for Research on Cancer (France).  
 NPT - National Toxicology Program (USA).  
 RTECS - Registry of Toxic Effects of Chemical Substances.

**Literature references:**

**Other Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*