AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: August 2017
Version No: 5

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Potassium Hydroxide 4% w/v in Ethanol
Product Code:	5724
Other Names:	Nil
Uses:	Analytical Reagent
Supplier:	Australian Chemical Reagents 38-50 Bedford Street Gillman SA 5013
Contacts:	Telephone: 61 08 84402000 Fax: 61 08 84402001 Emergency Phone: 61 08 84402000 Mon – Fri 8:30am – 5:00pm

2. HAZARDS INFORMATION

GHS Classification

Flammable Liquids: Category 2A
Skin Corrosion/Irritation: Category 1B
Acute Toxicity - Oral: Category 4
Corrosive to metals: Category 1

Signal Word(s)

DANGER

Pictogram(s)



Hazard Statement(s)

H225 Highly flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary Statement(s)
Preventative

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P234 Keep only in original container
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242 Use only non-sparking tools.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do no eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P390 Absorb spillage to prevent material damage.

Response	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use water spray, carbon dioxide or dry chemical for extinction.
Storage	P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P406 Store in corrosive resistant/... container with a resistant inner liner.
Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Potassium hydroxide	[1310-58-3]	4%
Ethyl alcohol	[64-17-5]	94%

4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.

Swallowed :

If conscious wash out mouth with water. Seek medical advice. Show this SDS to medical practitioner.

Eye :

Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.

Skin :

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice. Show this SDS to medical practitioner. Launder clothing before reuse.

Inhaled :

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray carbon dioxide, dry chemical powder, or appropriate foam.

Hazards From Combustion Products:

Flammable. Decomposition products include oxides of carbon.

Precautions For Fire Fighters and Special Protective Equipment:

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

Hazchem Code: •3WE

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:
Prevent from entering waterways. Restrict access to area. Remove chemicals that can react with the spilled material.

Methods and materials for containment and clean up:
Isolate all ignition sources. Ventilate area. Wear protective clothing. Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:
Do not get in eyes, on skin, on clothing. Avoid all personal exposure. Do not mix with oxidising agents.
Conditions for Safe Storage:
Flammable liquid storage required. Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. . Refer to AS 1940 - *The storage and handling of flammable and combustible liquids* for storage procedures. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:
Safe Work Australia – Ethanol 1880mg/m^3 TWA Potassium hydroxide 2mg/m^3 (Peak limitation)

Biological Limit Values: No data available.

Engineering Controls:
If mists are likely to be generated maintain atmospheric concentrations well below exposure standards with flameproof extraction ventilation.

Personal Protective Equipment (PPE):
The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Clear mobile liquid
Odour:	Alcohol
pH:	Not available
Boiling Point (^{0}C) :	79
Freezing/melting Point:	Not applicable
Vapour Pressure (mm of Hg @ 25^{0}C) :	45
Vapour Density:	1.4
Specific Gravity :	0.8
Flash Point (^{0}C) :	13 cc
Flammability Limits (%) :	LEL 3.3 UEL 24.5
Solubility in Water (g/L) :	Soluble

10. STABILITY AND REACTIVITY

Chemical stability:
Stable.
Conditions to avoid:
Heat. Ignition sources.
Incompatible materials:
Oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals, ammonia.
Hazardous decomposition products:
Refer to section 5 (Fire Fighting Measures).

Hazardous reactions:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:
Swallowed : Corrosive. May lead to central nervous system depression, nausea, dizziness, headache, gastric irritation. For ethanol oral – human LDLo 1400 mg/kg
Eye : Corrosive to eyes. 100mg ethanol applied to rabbit eyes produced moderate irritation after 24 hours.
Skin : Corrosive to skin tissue. May defat skin. 500mg ethanol applied to rabbit skin produced severe irritation after 24 hours.
Inhaled : Vapour is irritating to mucous membranes and respiratory tract. May be harmful if inhaled. May result in dizziness, headaches and nausea. For ethanol LC50 inhalation rat 20000 ppm / 10 hours.

Chronic Effects:. Long term exposure may include liver, heart and kidney damage. Repeated skin contact may cause dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
No data available.
Persistence and degradability:
No data available.
Mobility:
No data available.

13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material and container. Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN Number: 2924
UN Proper Shipping Name: FLAMMABLE LQUID CORROSIVE N.O.S. (Contains 6% potassium hydroxide in ethanol)
Class and subsidiary risk(s): 3, 8
Packing Group: 11
Hazchem Code: •3WE
Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):
Schedule 5

16. OTHER INFORMATION

Disclaimer:
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