

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: January 2018  
Version No: 5

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Ethanol Standard Solution 12%  
Product Code: 2652  
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

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## 2. HAZARDS INFORMATION

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**Hazard classification:** Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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### Ingredients :

Chemical Entity	CAS No	Proportion
Ethyl alcohol	[64-17-5]	12%
Water	[7732-18-5]	88%

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## 4. FIRST AID MEASURES

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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.

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## 5. FIRE FIGHTING MEASURES

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### **Suitable Extinguishing Media:**

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

### **Hazards From Combustion Products:**

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.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 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:

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.

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## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling:

Do not get in eyes, on skin, on clothing. Avoid all personal exposure.

### Conditions for Safe Storage:

Store sealed. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### National Exposure Standards:

Safe Work Australia – Ethanol 1880mg/m<sup>3</sup> TWA

**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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance :</b>	Clear mobile liquid
<b>Odour:</b>	Alcohol
<b>pH:</b>	Not applicable
<b>Boiling Point (°C) :</b>	Not known
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	Not known
<b>Vapour Density:</b>	Not known
<b>Specific Gravity :</b>	Not known
<b>Flash Point (°C) :</b>	Not known
<b>Flammability Limits (%) :</b>	Not flammable
<b>Solubility in Water (g/L) :</b>	Soluble

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## 10. STABILITY AND REACTIVITY

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### Chemical stability:

Stable.

### Conditions to avoid:

Heat.

### 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.

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**11. TOXICOLOGICAL INFORMATION**

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**Health Effects:**

**Swallowed** : May cause burning taste. May lead to central nervous system depression, nausea, dizziness, headache, gastric irritation. For ethanol oral – human LDLo 1400 mg/kg

**Eye** : Irritating to eyes. 100mg ethanol applied to rabbit eyes produced moderate irritation after 24 hours.

**Skin** : May irritate 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.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

No data available.

**Persistence and degradability:**

No data available.

**Mobility:**

No data available.

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**13. DISPOSAL CONSIDERATIONS**

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

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**14. TRANSPORT INFORMATION**

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**UN Number:** Not applicable

**UN Proper Shipping Name:** Not applicable

**Class and subsidiary risk(s):** Not applicable

**Packing Group:** Not applicable

**Hazchem Code:** Not applicable

**Special precautions for user** : Nil

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**15. REGULATORY INFORMATION**

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

Not Scheduled

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## 16. OTHER INFORMATION

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END of SDS