

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: July 2023  
Version No: 3

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Phenolphthalein Solution  
Product Code: 0226 - Phenolphthalein 0.1%  
0227 - Phenolphthalein 0.2%  
0228 - Phenolphthalein 0.5%  
0229 - Phenolphthalein 1.0%  
1738 - Phenolphthalein 2.0%  
1684 - Phenolphthalein 4.0%  
4232 - Phenolphthalein 5.0%

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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### GHS Classification

Carcinogenicity: Category 1  
Eye Damage/Irritation: Category 2A  
Flammable Liquids: Category 2  
Germ Cell Mutagenicity: Category 2  
Toxic to Reproduction: Category 2

Signal Word(s)  
Pictogram(s)

DANGER



Hazard Statement(s)

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statement(s)  
Preventative

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
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. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.
<b>Response</b>	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 In case of fire: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam for extinction.  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.  P308+P313 IF exposed or concerned: Get medical advice/attention.
<b>Storage</b>	P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
<b>Disposal</b>	P501 Dispose of contents/container to an approved waste disposal plant.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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#### Ingredients :

<b>Chemical Entity</b>	<b>CAS No</b>	<b>Proportion</b>
Ethyl alcohol	[64-17-5]	99%
Phenolphthalein	[ 77-09-8 ]	<5%

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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:**

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:** •2Y

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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:

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.

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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. 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.

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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>	79
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	45
<b>Vapour Density:</b>	1.4
<b>Specific Gravity :</b>	0.8
<b>Flash Point (°C) :</b>	13 cc
<b>Flammability Limits (%) :</b>	LEL 3.3 UEL 24.5
<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. 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.

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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.

Phenolphthalein [77-09-8] is evaluated in the IARC Monographs (Vol. 76; 2000) as Group 2B: Possibly carcinogenic to humans. Substance with carcinogenic and genotoxic effect whose potency, however, is considered to be so low that no appreciable contribution to the cancer risk in humans is to be expected where the limit value for occupational safety is observed.

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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:** 1993

**UN Proper Shipping Name:** FLAMMABLE LIQUID N.O.S. L (Contains Ethanol)

**Class and subsidiary risk(s):** 3

**Packing Group:** 111

**Hazchem Code:** •3Y

**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