

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: April 2017  
Version No: 5

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Formal Saline 10% Neutral Buffered  
Product Code: 3424  
Other Names: Nil  
Uses: Preservation agent

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
Formaldehyde	[50-00-0]	4%
Other non hazardous ingredients		to 100%

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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 if irritation persists. 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. Formaldehyde vapour may be present.

### 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. Ventilate area. Remove chemicals that can react with the spilled material.

### Methods and materials for containment and clean up:

Wear protective clothing when dealing with spills. Ventilate area. Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite, place in air tight container 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 prolonged or repeated exposure.

### Conditions for Safe Storage:

Store sealed in original container in a well ventilated situation away from foods and other chemicals. 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:

SWA – 1.2mg/m<sup>3</sup> (TWA)  
2.5mg/m<sup>3</sup> (STEL)  
Category 2 Carcinogen (probable human carcinogen)  
Sensitising agent

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

### Engineering Controls:

Use only in chemical fume hood. Ensure fume hood is regularly maintained.

### Personal Protective Equipment (PPE):

The use of nitrile or butyl rubber 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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Appearance :	Clear liquid
Odour:	Characteristic formaldehyde odour
pH:	7
Boiling Point (°C) :	100
Freezing/melting Point:	0
Vapour Pressure (mm of Hg @ 25°C) :	30
Vapour Density:	Not known
Specific Gravity :	1
Flash Point (°C) :	Not flammable
Flammability Limits (%) :	Not flammable
Solubility in Water (g/L) :	Soluble

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## 10. STABILITY AND REACTIVITY

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### Chemical stability:

Gradually decomposes.

### Conditions to avoid:

Excessive heat or cold. Sunlight

### Incompatible materials:

Acids, alkalies, oxidizing agents

### 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** : Harmful if swallowed. May cause gastrointestinal disturbances. For formaldehyde oral-woman LDLo 108mg/kg oral-rat LD50 800mg/kg..

**Eye** : Irritating to eye tissue. 1ppm formaldehyde in 6 minutes caused mild irritation. 50ug formaldehyde applied to rabbit eyes caused severe irritation after 24 hrs.

**Skin** : May be harmful if absorbed through skin. For skin-rabbit LD50 270mg/kg. 150ug formaldehyde applied to human skin for 3 days caused mild irritation.

**Inhaled** : Harmful by inhalation. Vapour is irritating to mucous membranes and respiratory tract. May result in coughing, chest pains, breathing difficulties, pulmonary oedema. For formaldehyde Inhalation- rat LC50 590mg/m<sup>3</sup>.

**Chronic Effects**:. Considered probable human carcinogen. May result in sensitisation and allergic reaction through inhalation and skin contact

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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. 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):

Nil

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## 16. OTHER INFORMATION

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