



Manufacturers of Instruments for  
pH, Redox, Specific Ions,  
Conductivity, Salinity,  
Dissolved Oxygen,  
Humidity, Temperature,  
for Research and Industry



**Manufacturer** : Australian Chemical Reagents  
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**Date** : Oct 2004

## MATERIAL SAFETY DATA SHEET

Not Classified as Hazardous According to Criteria of Worksafe Australia

### IDENTIFICATION

Solutions made from Silver Nitrate dissolved in water.

Part No	Product Code	Description & Volume	Concentration
121624	GSAG	Silver Ion Standard, 1000 ppM, 200 mL	1.574 g/L
121626	GSAGL	Silver Ion Standard, 1000 ppM, 1 Litre	1.574 g/L

**UN Number** : None Allocated  
**Other Names** : Nil  
**Manufacturers Code** : GCAG

**Dangerous Goods Class** : None Allocated  
**Subsidiary Risk** : None Allocated  
**Hazchem Code** : None Allocated  
**Poisons Schedule** : Not Scheduled

**Use s** : Analytical reagents for calibrating Silver Ion Selective Electrodes

#### Physical Description / Properties :

**Appearance** : Clear liquid  
**Boiling Point (°C)** : 100 (approx)  
**Vapour Pressure (mm of Hg @ 25°C)** : 25 (approx)  
**Specific Gravity** : 1  
**Flash Point (°C)** : Not flammable  
**Flammability Limits (%)** : Not flammable  
**Solubility in Water (g/L)** : Completely miscible

**Other Properties** : pH Neutral

#### Ingredients :

Chemical Entity	CAS No	Proportion
Silver Nitrate	[ 7761-88-8 ]	1.574 g/L
Water	[ 7732-18-5 ]	to 100%

AgNO<sub>3</sub>

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## HEALTH HAZARD INFORMATION

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### Health Effects :

- Swallowed** : Consumption of large quantities may cause irritation of the gastric system. For Silver Nitrate LD50 oral mouse 50mg/kg.
- Eye** : May be irritating to eye tissue. For Silver Nitrate 1mg applied to rabbit eyes caused severe irritation.
- Skin** : May irritate skin tissue with prolonged contact.
- Inhaled** : Not considered a hazard with normal laboratory use.
- Chronic Effects** : No data available.

### First Aid :

- Swallowed** : If conscious wash out mouth with water. Seek medical advice. Show this MSDS to medical practitioner.
- Eye** : Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this MSDS to medical practitioner.
- Skin** : Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this MSDS to medical practitioner.
- Launder clothing before reuse.
- Inhaled** : Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this MSDS to a doctor.

### Advice to Doctor :

Treat symptomatically

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## PRECAUTIONS FOR USE

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- Exposure Limits** : Worksafe : Silver, soluble compounds (as Ag) 0.01mg/m<sup>3</sup> TWA
- Engineering Controls** : Not usually required with normal use.
- Personal Protection** : Not required with normal use.
- Flammability** : Not flammable.

AgNO<sub>3</sub>

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## SAFE HANDLING INFORMATION

**Storage & Transport** : Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Observe good hygiene and housekeeping practices.

No special transport requirements apply.

**Spills & Disposal** : Mop up spills and flush to waste if local regulations permit.

**Fire/Explosion Hazard** : Fire fighters should wear self contained breathing apparatus and impervious clothing if exposure to fumes is likely. Use water spray, foam or dry chemical to control fire situation if compatible with other chemical products in the vicinity. Decomposition products include hydrogen chloride.

### Other :

#### References :

Lenga, R.E. (Ed.) *Safety The Sigma Aldrich Library of Chemical Safety Data* Sigma Aldrich Corporation 1985

National Institute for Occupational Safety & Health *NIOSH Pocket Guide to Chemical Hazards* 1990.

Merck & Co Inc. *The Merck Index 11th Ed.* Merck & Co 1989.

International Labour Office *Encyclopaedia of Occupational Health & Safety* Vol 1 & 2 International Labour Office 1983

National Occupational Health & Safety Commission *Exposure Standards for Atmospheric Contaminants in the Occupational Environment* AGPS 1995

National Occupational Health & Safety Commission *List of Designated Hazardous Substances* [ NOHSC:10005(1994)] AGPS 1994

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