

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: December 2019  
Version No: 1

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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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Product Name: Silver Nitrate 2% w/w +10ppm 0.1N Nitric Acid  
Product Code: 5825  
Other Names: Nil  
Uses: Analytical Reagent

Supplier: Australian Chemical Reagents  
38-50 Bedford Street Gillman SA 5013

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**2. HAZARDS INFORMATION**

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**GHS Classification**

Hazardous to the Aquatic Environment (Acute) - Category 1  
Hazardous to the Aquatic Environment (Chronic) - Category 1  
Eye Damage/Irritation: Category 2A  
Skin corrosion/irritation: Category 2

**Signal Word(s)**  
**Pictogram(s)**

WARNING



**Hazard Statement(s)**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statement(s)**  
**Preventative**

P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.  
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.  
P501 Collect spillage.

**Storage**

**Disposal** 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 :**

Chemical Entity	CAS No	Proportion
Sliver nitrate	[7761-88-8]	2%
Nitric acid 0.1M	[7697-37-2]	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:**

Solutions will not burn or support combustion. Decomposition products include silver oxides and nitrogen oxides.

**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:** •3Z

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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:**

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:**

Silver Nitrate 2% w/w +10ppm 0.1N Nitric Acid

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Do not pipette by mouth.

**Conditions for Safe Storage:**

Store sealed in original container in a cool 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:**

Safe Work Australia – Nitric acid TWA 5.2 mg/m<sup>3</sup> STEL 10 mg/m<sup>3</sup>

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

**Engineering Controls:**

Not usually required with normal use.

**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 liquid
<b>Odour:</b>	Faint nitric acid smell.
<b>pH:</b>	Unknown
<b>Boiling Point (°C) :</b>	Unknown
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	Unknown
<b>Vapour Density:</b>	Not applicable
<b>Specific Gravity :</b>	Unknown
<b>Flash Point (°C) :</b>	Not flammable
<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:**

Acidic solution. Will corrode metals. Will produce toxic gases on contact with cyanides, sulphides etc. Excessive heat. Sunlight.

**Incompatible materials:**

Strong alkalis, powdered metals.

**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 burn or irritate gastric tissue. May be harmful if swallowed.

**Eye :** H318 Causes serious eye damage.

**Skin :** H315 Causes skin irritation.

**Inhaled :** Inhalation of vapours may irritate nose and throat. Inhalation of mists into lungs can cause pneumonitis.

**Chronic Effects:** Repeated or prolonged skin contact may cause severe irritation or 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. Observe all federal, state and local environmental regulations.

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## 14. TRANSPORT INFORMATION

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**UN Number:** 3082

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Contains Silver nitrate)

**Class and subsidiary risk(s):** 9

**Packing Group:** III

**Hazchem Code:** •3Z

**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