

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: September 2023  
Version No: 6

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

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Product Name: Gold Standard 1000 mg/L (Cyanide matrix)  
Product Code: 0693A  
Other Names:  
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: CHEMCALL 1800 127 406 - Australia  
+64-4-917-9888 - International

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**2. HAZARDS INFORMATION**

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**GHS classification** Acute Toxicity – Oral: Category 4  
Acute Toxicity - Dermal: Category 4  
Acute Toxicity – Inhalation: Category 4  
AUH032: Contact with acids liberates very toxic gas

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



**Hazard Statement(s)** H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H332 Harmful if inhaled

**Precautionary Statement(s)**  
**Preventative**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing.

## Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor physician if you feel unwell.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTRE or doctor physician if you feel unwell.  
P363 Wash contaminated clothing before reuse.

## Storage

## Disposal

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
Gold Chloride	[13453-07-1]	0.2%
Sodium cyanide	[ 143-33-9 ]	0.3%
Sodium hydroxide	[ 1310-73-2]	<1%
Water	[7732-18-5]	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 hydrogen cyanide.

### **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:** 2X

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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. Spills are slippery

**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:**

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 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 – Cyanides (as CN) 5mg/m<sup>3</sup> TWA

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

**Engineering Controls:**

Not required with normal use. If mists are likely to be generated maintain atmospheric concentrations well below exposure standards with 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 liquid
<b>Odour:</b>	Nil
<b>pH:</b>	12
<b>Boiling Point (°C) :</b>	Not applicable
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	Not applicable
<b>Vapour Density:</b>	Not applicable
<b>Specific Gravity :</b>	1.1
<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:**

Heat.

**Incompatible materials:**

Acids

**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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**Swallowed :** May be harmful or fatal if swallowed in large amounts. For sodium cyanide oral-human LDLo 2857 ug/kg ; oral-rat LD50 6440 ug/kg.

**Eye :** Irritating to eye tissue.

**Skin :** May be harmful or fatal if absorbed through skin.

**Inhaled** : May be harmful or fatal if inhaled.

**Chronic Effects:** Exposure can cause nausea, dizziness and headache, lung irritation and cyanosis

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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:** 1935

**UN Proper Shipping Name:** CYANIDE SOLUTION N.O.S (Contains sodium cyanide 0.3%)

**Class and subsidiary risk(s):** 6

**Packing Group:** III

**Hazchem Code:** 2X

**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):**

Schedule 7

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## 16. OTHER INFORMATION

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END of SDS