

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: August 2018  
Version No: 5

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

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Product Name: Gold Standard 1000 mg/L (Potassium Cyanide matrix)  
Product Code: 4238  
Other Names: Nil  
Uses: Analytical Reagent

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

Contacts: Telephone: 61 08 84402000  
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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**

Skin Corrosion/Irritation: Category 2  
Serious Eye Damage/Irritation: Category 2A  
Corrosive to metals: Category 1

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

WARNING

**Hazard Statement(s)**

H290 May be corrosive to metals.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
AUH031 Contact with acids may liberate toxic gas.

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

P234 Keep only in original container  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P363 Wash contaminated clothing 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.  
P390 Absorb spillage to prevent material damage.

**Storage**

P406 Store in corrosive resistant/... container with a resistant inner liner.

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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%
Potassium cyanide	[151-50-8 ]	0.3%
Sodium hydroxide	[ 1310-73-2]	0.5%
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. However contact with aluminium, zinc or tin may generate explosive hydrogen gas. Decomposition products include toxic fumes of hydrogen cyanide and oxides of carbon and nitrogen.

**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. 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 – Sodium hydroxide 2mg/m<sup>3</sup> TWA & Peak Limitation. 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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Appearance :	Clear liquid
Odour:	Nil
pH:	14
Boiling Point (°C) :	Not applicable
Freezing/melting Point:	Not applicable
Vapour Pressure (mm of Hg @ 25°C) :	Not applicable
Vapour Density:	Not applicable
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:

Stable.

### Conditions to avoid:

Exposure to air. Absorbs carbon dioxide

### Incompatible materials:

Acids, organic materials, chlorinated solvents, aluminum, phosphorus, tin and zinc.

### 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 be harmful or fatal if swallowed in large amounts. For potassium cyanide oral human LDLo 2857 ug/kg oral rat LD50 5 mg/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 potassium cyanide 0.3%)

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

**Packing Group:** 11

**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