

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: August 2023  
Version No: 3

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Multi Element Standard  
Product Code: 5912  
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: 61 08 84402000 Mon – Fri 8:30am – 5:00pm

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## 2. HAZARDS INFORMATION

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**GHS Classification** Corrosive to Metals: Category 1  
Acute Toxicity - Dermal: Category 3  
Eye Damage/Irritation: Category 2A  
Acute Toxicity - Inhalation: Category 3  
Acute Toxicity - Oral: Category 3  
Skin Corrosion/Irritation: Category 2

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



**Hazard Statement (s)** H290 May be corrosive to metals.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.

**Precautionary Statement(s)  
Preventative** P234 Keep only in original container.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash 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/eye protection/face protection.

**Response** P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
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.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P311 Call a POISON CENTER or doctor/physician.  
 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** P405 Store locked up.  
 P406 Store in corrosive resistant/... container with a resistant inner liner.

**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
Mercuric nitrate	[7783-34-8]	0.4%
Ammonium sulphate	[7783-20-2]	0.6%
Nitric acid	[7697-37-2]	5%
Trace ingredients include the following elements (Zn Mn Al Fe Sr As Cd Cu Pb Ni)		
Water	[7732-18-5]	all <0.1% 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 oxides of nitrogen and mercury.

**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 – Mercury inorganic compounds (as Hg) 0.1mg/m<sup>3</sup> TWA Skin absorbed; 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 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 face shield, 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>	1
<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:**

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

**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** : Toxic if swallowed. May be fatal if swallowed in large amounts. Corrosive to gastric system. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

**Eye** : Corrosive or irritating to eye tissue. Contamination of eyes can result in permanent injury.

**Skin** : May be fatal if absorbed through skin. Toxic to skin. Causes skin irritation.

**Inhaled** : Corrosive or irritating to respiratory system. Toxic if inhaled.

**Chronic Effects:** No data available.

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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:** 3264

**UN Proper Shipping Name:** CORROSIVE LIQUID ACIDIC INORGANIC N.O.S (Contains nitric acid 2 to 5%)

**Class and subsidiary risk(s):** 8

**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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**Disclaimer:**

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Every person dealing with the materials referred to herein does so at his or her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

End of SDS