

AUSTRALIAN CHEMICAL REAGENTS  
**MATERIAL SAFETY DATA SHEET**

Date Prepared: February 2022  
Version No: 6

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Potassium Dichromate 0.25 g/L in 0.05 M Potassium Hydroxide  
Product Code: 1876  
Other Names: Nil  
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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**Hazard classification:** Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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### Ingredients :

Chemical Entity	CAS No	Proportion
Potassium dichromate	[7778-50-9]	0.025%
Potassium Hydroxide	[1310-58-3]	0.3%
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:

Potassium dichromate and potassium hydroxide and its solutions will not burn. Decomposition products include chromium and potassium oxides. Contact with aluminium, zinc or tin may generate explosive hydrogen gas.

### 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.

### Methods and materials for containment and clean up:

Wear protective clothing including gloves. 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. Do not allow to dry and generate dust.

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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 all exposure. Wipe up all spills.

### 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:

SWA – Potassium dichromate 0.05mg/m<sup>3</sup> as chromium TWA

Potassium hydroxide 2mg/m<sup>3</sup> TWA & Peak Limitation

**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>	Orange liquid
<b>Odour:</b>	Nil
<b>pH:</b>	13
<b>Boiling Point (°C) :</b>	100
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	25
<b>Vapour Density:</b>	Not applicable
<b>Specific Gravity :</b>	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:

Excessive heat.

### Incompatible materials:

Reducing agents. Organic materials

### 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** : Irritating to the gastric system. Ingestion of large amounts may cause inflammation and ulceration of the gastric tract, vomiting, diarrhoea, collapse and possibly death. For potassium dichromate LDLo oral child 26mg/kg , LD50 oral mouse 190mg/kg. For potassium hydroxide LD50 oral - rabbits 273mg/kg.

**Eye** : Irritating to eye tissue. May cause severe burns and possible permanent damage. For potassium hydroxide 1mg rinse for 24 hrs produced moderate irritation of rabbit eyes.

**Skin** : Irritating to skin tissue. May cause allergic skin reactions. May cause burns with possible ulceration. 50mg of potassium hydroxide produced severe irritation of human skin after 24hrs.

**Inhaled** : Not considered a hazard with normal laboratory use. Inhalation of mists may be fatal as a result of spasm, inflammation and oedema of the larynx and bronchi, chemical pneumonitis and pulmonary oedema.

**Chronic Effects:** Dichromates are potential carcinogens. Prolonged exposure may result in kidney and liver damage and blood disorders. Repeated skin contact may cause chrome ulcers and sensitisation.

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity:

Environmental toxin. This product and its container must be disposed of as hazardous waste.

### 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:** Not applicable

**UN Proper Shipping Name:** Not applicable

**Class and subsidiary risk(s):** Not applicable

**Packing Group:** Not applicable

**Hazchem Code:** Not applicable

**Special precautions for user :** Nil

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## 15. REGULATORY INFORMATION

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**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):**  
Schedule 6

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## 16. OTHER INFORMATION

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