AUSTRALIAN CHEMICAL REAGENTS

# SAFETY DATA SHEET

Date Prepared: December 2018
Version No: 5

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Potassium Dichromate Solution
Product Code: Product Code:
1677 0.2N
4615 0.358N
5919 0.5N

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: CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

## 1. HAZARDS INFORMATION

**GHS Classification**

Sensitization - Skin: Category 1
Germ Cell Mutagenicity: Category 1B
Carcinogenicity: Category 1B
Toxic to Reproduction: Category 1B
Specific target organ toxicity - Repeated Exposure Category 2

**Signal Word(s)** DANGER

**Pictogram(s)**



**Hazard Statement(s)**

H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340 May cause genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.

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

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing Do not breathe dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.
P281 Use personnel protective equipment as required.
P285 in case of inadequate ventilation wear respiratory protection.

**Response** P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep in a position comfortable for breathing.
P342+P611 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P308+P313 IF exposed or concerned: Get medical advice/attention.

**Storage** P405 Store locked up.

**Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredients :**

| Chemical Entity | CAS No | Proportion |
|---|---|---|
| Potassium dichromate | [7778-50-9] | <2.5% |
| Water | [7732-18-5] | to 100% |

## 4. FIRST AID MEASURES

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.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**
Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Hazards From Combustion Products:**
Potassium dichromate and its solutions will not burn or support combustion. Decomposition products include chromium 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.

## 6. ACCIDENTAL RELEASE MEASURES

**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. 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.

## 7. HANDLING AND STORAGE

**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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards:**
Safe Work Australia – Potassium dichromate 0.05mg/$m^3$ as chromium 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance :** | Orange liquid |
| **Odour:** | Nil |
| **pH:** | 7 |
| **Boiling Point ($^0$C) :** | 100 |
| **Freezing/melting Point:** | Not applicable |
| **Vapour Pressure (mm of Hg @ 25$^0$C) :** | 25 |
| **Vapour Density:** | Not applicable |
| **Specific Gravity :** | 1 |
| **Flash Point ($^0$C) :** | Not flammable |
| **Flammability Limits (%) :** | Not flammable |
| **Solubility in Water (g/L) :** | Soluble |

## 10. STABILITY AND REACTIVITY

**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.

## 11. TOXICOLOGICAL INFORMATION

**Health Effects**
**Swallowed :** Irritating to the gastric system. Ingestion of large amounts may cause inflammation and ulceration of the gastric tract. For potassium dichromate LDLo oral child 26mg/kg , LD50 oral mouse 190mg/kg.
**Eye :** Irritating to eye tissue.
**Skin :** Irritating to skin tissue. May cause allergic skin reactions.

**Inhaled :** Not considered a hazard with normal laboratory use.
**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.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2
Environmental toxin. This product and its container must be disposed of as hazardous waste.
**Persistence and degradability:**
No data available.
**Mobility:**
No data available.

## 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

## 14. TRANSPORT INFORMATION

**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

## 15. REGULATORY INFORMATION

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):**
Schedule 6

## 16. OTHER INFORMATION

**Disclaimer:**
All information given by the Company is offered in good faith and is believed to the best of our knowledge to be accurate. However this information is offered without warranty representation inducement or licence and the Company does not assume legal responsibility for reliance upon the same.
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