AUSTRALIAN CHEMICAL REAGENTS

# SAFETY DATA SHEET

Date Prepared: July 2018
Version No: 5

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Multi (6) Elements 1000 As Co Fe Ni Sb Sn Pb
Product Code: 5586
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

## 2. HAZARDS INFORMATION

**GHS Classification**

Carcinogenicity: Category 1
Toxic to Reproduction: Category 1
Corrosive to Metals: Category 1
Germ Cell Mutagenicity: Category 2
Acute Toxicity - Dermal: Category 4
Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 2
Eye Damage/Irritation: Category 2A

**Signal Word(s)** DANGER

**Pictogram(s)**



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

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.

| | |
|---|---|
| **Response** | P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.<br>P330 Rinse mouth.<br>P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P312 Call a POISON CENTER or doctor/physician if you feel unwell.<br>P363 Wash contaminated clothing before reuse.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice/attention.<br>P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P391 Collect spillage. |
| **Storage** | P405 Store locked up.<br>P406 Store in corrosive resistant/... container with a resistant inner liner. |
| **Disposal** | P501 Dispose of contents/container to an approved waste disposal plant. |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredients :**

| Chemical Entity | CAS No | Proportion |
|---|---|---|
| Arsenic(V) oxide | [ 12044-50-7 ] | 0.2% |
| Antimony | [7440-36-0] | 0.1% |
| Ferric Nitrate | [ 7782-61-8 ] | 0.7% |
| Nickel nitrate | [13478-00-7] | 0.5% |
| Cobalt nitrate | [10026-22-9] | 0.5% |
| Ammonium hexafluorostannate | [ 16919-24-7 ] | 0.3% |
| Lead nitrate | [ 10099-74-8 ] | 0.2% |
| Nitric acid | [7697-37-2 ] | 2 to 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:**

Solutions will not burn or support combustion. Decomposition products include oxides of 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.

**Hazchem Code:** 2X

## 6. ACCIDENTAL RELEASE MEASURES

**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.

## 7. HANDLING AND STORAGE

**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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards:**
Safe Work Australia –

Arsenic and soluble compounds (as As) TWA 0.05 mg/$m^3$ (Cat 1 carcinogen)
Cobalt, metal dusts or fumes (as Co) TWA 0.05 mg/$m^3$ (Cat 1B carcinogen)
Nickel soluble compounds (as Ni) TWA 0.1mg/$m^3$ (Sensitiser)
Antimony & compounds (as Sb) 0.5mg/$m^3$ TWA
Lead, -inorganic dusts & fumes) as Pb) TWA 0.05 mg/$m^3$
Nitric acid TWA 5.2 mg/$m^3$ STEL 10 mg/$m^3$

**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 :** | Clear liquid |
| **Odour:** | Nil |
| **pH:** | 14 |
| **Boiling Point ($^0$C) :** | Not applicable |
| **Freezing/melting Point:** | Not applicable |
| **Vapour Pressure (mm of Hg @ 25$^0$C) :** | Not applicable |
| **Vapour Density:** | Not applicable |
| **Specific Gravity :** | 1.1 |
| **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:**
Acidic solution. Will corrode metals. Will produce toxic gases on contact with cyanides, sulphides etc.
**Incompatible materials:**
Strong alkalies, powdered metals
**Hazardous decomposition products:**
Refer to section 5 (Fire Fighting Measures).
**Hazardous reactions:**
Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Health Effects:**

**Swallowed** : Harmful if swallowed. For arsenic oral-man LD50 1430 ug/kg , LD50 oral rat 40mg/kg. May burn or irritate gastric tissue. For cobalt nitrate hexahydrate oral rat LD50 691 mg/kg. For nickel nitrate hexahydrate oral rat LD50 1620 mg/kg.

**Eye :** Irritating to eye tissue.

**Skin :** Harmful if absorbed through skin. May irritate skin tissue with prolonged contact.

**Inhaled :** Harmful if inhaled. Inhalation of vapours may irritate nose and throat. Inhalation of mists into lungs can cause pneumonitis.

**Chronic Effects:** Arsenic is a carcinogen. Nickel nitrate is a cancer suspect agent. Repeated or prolonged skin contact may cause dermatitis.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**
No data available.
**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:** 3264
**UN Proper Shipping Name:** CORROSIVE LIQUID ACIDIC 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

## 15. REGULATORY INFORMATION

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):**
Schedule 5

## 16. OTHER INFORMATION

**Disclaimer:**
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END of SDS