AUSTRALIAN CHEMICAL REAGENTS

# SAFETY DATA SHEET

Date Prepared: July 2018
Version No: 5

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Multi Element Standard
Product Code: 5301
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**

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

**Signal Word(s)**

DANGER

**Pictogram(s)**



**Hazard Statement (s)**

H290 May be corrosive to metals
H314 Causes serve skin burns and eye damage.

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

P234 Keep only in original container
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P310 Immediately 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.

**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.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredients :**

| Chemical Entity | CAS No | Proportion |
|---|---|---|
| Nitric acid | [7697-37-2] | 10% |
| Water | [7732-18-5] | to 100% |
| Trace ingredients include these elements (Ca Mg Pb Al Cd Fe Mn As Cu Zn ) | | trace |

## 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.

**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 – 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:** | 1 |
| **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 :** Corrosive to tissue.

**Eye :** May cause serious damage to eyes.

**Skin :** May cause burns to skin tissue.

**Inhaled :** Vapour is irritating to mucous membranes and respiratory tract. May be harmful if inhaled.
For nitric acid LC50 inhalation rat 244ppm (as $NO_2$) 30 minutes.

**Chronic Effects:** Repeated skin contact may cause severe 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 INORGANIC N.O.S (Contains nitric acid 10%)
**Class and subsidiary risk(s):** 8
**Packing Group**: II
**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

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END of SDS