# **AUSTRALIAN CHEMICAL REAGENTS**

# **SAFETY DATA SHEET**

Date Prepared: July 2023

Version No: 6

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Multi Element Standard

Product Code: 5092

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 2

Serious Eye Damage/Irritation: Category 2A

Corrosive to metals: Category 1

Signal Word(s) Pictogram(s)

WARNING





Hazard Statement(s) H290 May be corrosive to metals: Category 1

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary Statement(s)** 

**Preventative** P234 Keep only in original container

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

**Response** 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.

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.

Multi Element Cat No 5092 Page 1 of 4

**Storage** 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	
Zinc nitrate	[10196-18-6]	1.5%	
Copper nitrate	[ 19004-19-4 ]	0.8%	
Manganese nitrate	[17141-63-8]	2.5%	
Lead nitrate	[ 10099-74-8 ]	0.3%	
Arsenic(V) oxide	[ 12044-50-7 ]	<0.1%	
Cadmium nitrate	[ 10022-68-1 ]	trace	
Selenious acid	[ 7783-00-8 ]	trace	
Nitric acid	[7697-37-2]	2%	
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 – Manganese, dust & compd's (as Mn) TWA 1 mg/m³; - Lead, inorganic dusts or fumes (as Pb) TWA 0.15 mg/m³; Arsenic and soluble compounds (as As) TWA 0.05 mg/m³ (Cat 1 carcinogen); Cadmium and compounds (as Cd) TWA 0.01 mg/m³ (Cat 2 carcinogen); Nitric acid TWA 5.2 mg/m³ STEL 10 mg/m³

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 (°C):

Freezing/melting Point:

Vapour Pressure (mm of Hg @ 25°C):

Not applicable

Not applicable

Not applicable

Not applicable

Specific Gravity: 1.1

Flash Point (°C):

Flammability Limits (%):

Solubility in Water (g/L):

Not flammable
Not flammable
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. May burn or irritate gastric tissue. For cadmium LD50 oral rat 225mg/kg. For arsenic oral-man LD50 1430 ug/kg, LD50 oral rat 40mg/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. For cadmium inhalation human LCLo 39mg/m³/20 minutes.

Chronic Effects: Cadmium and arsenic are carcinogens. 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%)

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