# AUSTRALIAN CHEMICAL REAGENTS **SAFETY DATA SHEET**

Date Prepared: November 2023 Version No: 6

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Product Code: Other Names:	Multi (7) Elements 1000 Be Cu Mn Ni Mo V Zn 4244			
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)				
2. HAZARDS INFORMATION				
GHS Classificat	ion 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. 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	<ul> <li>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 If eye irritation persists: Get medical advice/attention.</li> <li>P390 Absorb spillage to prevent material-damage.</li> </ul>

**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
Beryllium nitrate	[ 13597-99-4 ]	1.6%
Copper nitrate	[ 19004-19-4 ]	0.4%
Manganese nitrate	[17141-63-8]	0.5%
Nickel nitrate	[13478-00-7]	0.5%
Ammonium molybdate	[ 12054-85-2 ]	0.2%
Vanadium	[7440-62-2]	0.1%
Zinc nitrate	[10196-18-6]	0.3%
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 –Nickel soluble compounds (as Ni) TWA 0.1mg/m<sup>3</sup> (Sensitiser Beryllium & compounds TWA 0.002 mg/m<sup>3</sup> Manganese, dust & compd=s (as Mn) TWA 1 mg/m<sup>3</sup> – Copper dusts and mists (as Cu) TWA 1mg/m<sup>3</sup> Molybdenum soluble compounds (as Mo) 5 mg/m<sup>3</sup> TWA) Nitric acid TWA 5.2 mg/m<sup>3</sup> STEL 10 mg/m<sup>3</sup>

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 ( <sup>0</sup> C) :	Not applicable
Freezing/melting Point:	Not applicable
Vapour Pressure (mm of Hg @ 25 <sup>o</sup> C) :	Not applicable
Vapour Density:	Not applicable
Specific Gravity :	1.1
Flash Point (⁰C) :	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** : May be harmful if swallowed For nickel nitrate hexahydrate oral rat LD50 1620 mg/kg. May burn or irritate gastric tissue.

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:** 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