AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: May 2024

Version No: 6

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Molybdovanadate Reagent

Product Code: 0504

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 1B

Corrosive to metals: Category 1

Signal Word(s) Pictogram(s)

DANGER



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

H314 Causes severe skin burns and eye damage.

Precautionary Statement(s)

Preventative P234 Keep only in original container

P260 Do not breathe dusts or mists. 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/CENTRE 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. P390 Absorb spillage to prevent material-damage.

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

<u>Ingredients</u>:

Chemical Entity	CAS No	Proportion
Ammonium molybdate tetrahydrate	[12054-85-2]	5%
Ammonium metavanadate	[7803-55-6]	< 0.1%
Nitric acid	[7697-37-2]	10-20%
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.

Eve:

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.

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:

SWA – Vanadium(as V₂O₅),(respirable dust and fume) TWA 0.05 mg/m³ Nitric acid TWA 5.2 mg/m³ STEL 10 mg/m³ Molybdenum, soluble compounds (as Mo) TWA 5 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 (%):

Not flammable

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 burn or irritate gastric tissue. May be harmful if swallowed.

Eye: Irritating to eye tissue.

Skin: May irritate skin tissue with prolonged contact.

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

Chronic Effects:. Repeated or prolonged skin contact may cause severe irritation or 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

10-20%)

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 Medicines and Poisons (SUSMP):

Schedule 6

16. OTHER INFORMATION

Disclaimer:

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