



Infosafe No™	1CH13	Issue Date : December 2018	RE-ISSUED by CHEMSUPP
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Product Name : **AMMONIUM MOLYBDATE tetrahydrate**

Not classified as hazardous

1. Identification

GHS Product Identifier	AMMONIUM MOLYBDATE tetrahydrate		
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
Recommended use of the chemical and restrictions on use	Pigments, catalyst for dehydrogenation and desulfurisation in petroleum and coal technology, production of molybdenum metal, source of molybdate ions, analytical reagent and laboratory reagent.		
Other Names	Name	Product Code	
	AMMONIUM MOLYBDATE tetrahydrate AR	AA084	
	Ammonium heptamolybdate		
	Hexammonium heptamolybdate		
	Ammonium heptamolybdate tetrahydrate		
	Hexammonium heptamolybdate 4-hydrate		

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture	Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
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3. Composition/information on ingredients

Chemical Characterization	Solid			
Information on Composition	Produced by dissolving molybdenum trioxide in aqueous ammonia.			
Ingredients	Name	CAS	Proportion	Hazard Symbol Risk Phrase
	Ammonium Molybdate tetrahydrate	12054-85-2	100 %	

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.
Skin	Remove contaminated clothes. Wash with plenty of soap and water. Seek medical advice if effects persist.
Eye contact	Rinse immediately with plenty of water for at least 10 minutes and seek medical advice.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Suitable extinguishing media	Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Specific Methods	Use measures suitable for extinguishing surrounding fire.



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Specific hazards arising from the chemical May burn but do not ignite readily.

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

Environmental Precautions Prevent further leakage or spillage and prevent from entering drains

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place. Keep containers securely sealed and protected against physical damage. Store in well ventilated area.

8. Exposure controls/personal protection

Other Exposure Information No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m³. All atmospheric contamination should be kept to as low a level as is workable.

Appropriate engineering controls In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

Respiratory Protection Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Personal Protective Equipment Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

Body Protection Wear suitable protective clothing to prevent skin contact. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form Solid

Appearance Colourless or slightly yellowish-greenish crystals or white powder.

Odour Odourless.

Melting Point 90 °C (decomposition)

Boiling Point 190 °C

Solubility in Water Soluble in water (400 g/L @ 20 °C).



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Solubility in Organic Solvents Practically insoluble in alcohol.**Solvents****Specific Gravity** 2.498**pH** 5.0 - 5.5 (5%; 50 g/l, H₂O, 20 °C)**Flammability** Non flammable.**Molecular Weight** 1235.86**10. Stability and reactivity****Chemical Stability** Stable under normal use conditons.**Incompatible Materials** Strong oxidizing agents, strong acids, sodium hypobromite, acetylene, hydrazine and nitromethane.**Hazardous Decomposition Products** May decompose and emit, corrosive products including oxides of nitrogen and ammonia.**Hazardous Polymerization** Will not occur.**11. Toxicological Information****Ingestion** Produces unpleasant taste in mouth and gastric upset. Symptoms include abdominal pain, nausea and vomiting.**Inhalation** Irritating to the respiratory tract and mucous membranes with symptoms including breathing difficulties and coughing.**Skin** May be irritating to skin with symptoms including redness and itching.**Eye** May cause irritation, watering, itching, tearing, blurred vision, redness and conjunctivitis.**Carcinogenicity** No evidence of carcinogenic properties.**Mutagenicity** No evidence of mutagenic properties.**12. Ecological information****Ecotoxicity** No ecological data available for this product.**Environmental Protection** Harmful to aquatic life. Do not allow material to enter drains or waterways.**13. Disposal considerations****Disposal Considerations** Dispose of according to relevant local, state and federal government regulations.**14. Transport information****Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.**15. Regulatory information****Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS).**Poisons Schedule** Not Scheduled**16. Other Information****Literature References**
'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Substances Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances



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Safety Data Sheet

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**Contact
Person/Point**

(2011).
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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**Empirical Formula &
Structural Formula**

(NH₄)₆ Mo₇ O₂₄.4H₂O

...End Of MSDS...

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