

Issue Date: 30/04/2024
Last Revision Date: N/A
Superseded Date: N/A
Version Number: 01

SAFETY DATA SHEET

Product Code: CSAA084-100G

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SECTION 1 PRODUCT IDENTIFICATION

Product Name: Ammonium Molybdate Tetrahydrate (Ammonium Heptamolybdate)
Other means of identification AMMONIUM MOLYBDATE tetrahydrate AR
Ammonium heptamolybdate
Hexammonium heptamolybdate
Ammonium heptamolybdate tetrahydrate
Hexammonium heptamolybdate 4-hydrate
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.

SECTION 2 HAZARD IDENTIFICATION

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Molecular weight: 1235.86

Produced by dissolving molybdenum trioxide in aqueous ammonia.

Components

Component	CAS no.	Concentration
Ammonium Molybdate Tetrahydrate	12054-85-2	100 % (weight)

SECTION 4 FIRST AID MEASURES

Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

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.

In case of skin contact

Remove contaminated clothes. Wash with plenty of soap and water. Seek medical advice if effects persist.

In case of eye contact

Rinse immediately with plenty of water for at least 10 minutes and seek medical advice.

If swallowed

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.

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Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media Use measures suitable for extinguishing surrounding fire.

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

Special protective actions for fire-fighters Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

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

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations

Prevent further leakage or spillage and prevent from entering drains

SECTION 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.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits

Individual protection measures, such as personal protective equipment (PPE)

Eye/face 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.

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

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.

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. respiratory protection is required institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection

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SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Basic physical and chemical properties

Physical state	Solid
Appearance	Colorless or slightly yellowish-greenish crystals or white powder.
Colour	No data available.
Odour	Odourless.
Odour threshold	No data available.
Melting point/freezing point	90 °C (decomposition)
Boiling point or initial boiling point and boiling range	190 °C
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	5.0 - 5.5 (5%; 50 g/l, H ₂ O, 20 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble in water (400 g/L @ 20 °C) Solubility in Organic Solvents: Practically insoluble in alcohol.
Partition coefficient n-octanol/water (log value)	No data available.
Vapour pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 2.498
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10 STABILITY AND REACTIVITY

Reactivity	None under normal use conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous Polymerization: Will not occur.
Conditions to avoid	Avoid storing in direct sunlight and avoid extremes of temperature.
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.

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SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

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 corrosion/irritation

May be irritating to skin with symptoms including redness and itching.

Serious eye damage/irritation

May cause irritation, watering, itching, tearing, blurred vision, redness and conjunctivitis.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPVB assessment

No data available.

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations.
 Leave chemicals in original containers.

Other disposal

recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14 TRANSPORT INFORMATION

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16 OTHER INFORMATION

Further information/disclaimer

Livingstone International 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 Livingstone International 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 Livingstone International is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)

END OF SDS

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