

SAFETY DATA SHEET

AMMONIUM MOLYBDATE TETRAHYDRATE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Ammonium Molybdate Tetrahydrate
Catalog Number: AMM497

SECTION 2 HAZARDS IDENTIFICATION

Emergency overview:

GHS Classification: not a hazardous substance

WHMIS: not controlled

Potential Health Effects:

Target Organs: None known
Eyes: May cause eye irritation.
Skin: May cause skin irritation.
Inhalation: May cause irritation. May be harmful
Ingestion: May be harmful if swallowed
CHRONIC HEALTH HAZARDS: Not available

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	EC-No	%
Ammonium molybdate tetrahydrate	12054-85-2	234-320-9	99+

Molecular Formula: H₂₄O₂₄N₆Mo₇ · 4H₂O
Molecular Weight: 1,235.86

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin: Flush area immediately with plenty of soap and water .
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration .Get medical attention if symptoms persist.
Ingestion: Wash mouth with water.

SECTION 5 FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire. Toxic gas and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.
Flammable: No

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed

Use adequate ventilation. Avoid dust generation..

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Use appropriate exhaust ventilation .

Respiratory protection: use OSHA/MSHA approved dust masks.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance and Odor: white crystalline, powder, no odor

Freezing/Melting Point: n/a

Boiling Point: N/A

Flash point: N/A

Specific Gravity: N/A

Density: 2.498 g/cm³

Vapor Density: N/A

Solubility: soluble

pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: dust generation. Excess heat

Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, molybdenum oxides.

Hazardous Polymerization: Will not occur

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SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

No data available

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: No data available

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish, other aquatic invertebrates and algae.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

DOT (US): not dangerous

IMDG: not dangerous

IATA: not dangerous

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

European/International: Do not breathe dust.. Avoid contact with skin and dust.

Canada: WHMIS: not controlled

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

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Observe all federal, provincial and state laws concerning health, safety and pollution.