



# SAFETY DATA SHEET

## 1. Identification:

<b>Product Identifier:</b>	Ammonium Molybdate Tetrahydrate (ACS)
<b>Product code:</b>	BA2055
<b>Synonym(s):</b>	Ammonium Molybdate
<b>Recommended use:</b>	Manufacture of other chemical products, professional, scientific, and technical activities.
<b>Recommended restrictions:</b>	None known.

### Manufacturer/Supplier/Distributor Information

<b>Company name:</b>	Biopharm Inc.
<b>Address:</b>	187 South Tilley Road Hatfield, AR 71945
<b>Telephone:</b>	(870) 389-6114
<b>Website:</b>	www.bphchem.com
<b>E-mail:</b>	support@bphchem.com
<b>Emergency phone number:</b>	Chemtrec 800-424-9300

## 2. Hazard(s) identification:

<b>Classification:</b>	This chemical is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
<b>Label elements:</b>	Warning
<b>Signal word:</b>	Not Applicable
<b>Hazard statement:</b>	Causes skin irritation. Causes eye irritation. May cause respiratory irritation.
<b>Precautionary statement:</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF exposed or concerned: Get medical advice/ attention
<b>Response</b>	IF INGESTED: Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately seek medical attention. IF INHALED: Remove to fresh air. Give artificial respiration, if not breathing. If breathing is difficult, have a trained person administer oxygen. Call a physician. IF ON SKIN: Immediately flush with cool, running water for at least 15 minutes. Remove contaminated clothing. If irritation persists, obtain medical assistance. IF IN EYES: Immediately flush with cool, running water for at least 15 minutes, occasionally lifting upper and lower eye lids to ensure rinsing under them. Seek medical aid.
<b>Storage</b>	Store locked up, in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	To be performed in compliance with all current local, state and federal regulations
<b>Hazard(s) not otherwise classified (HNOC):</b>	None known
<b>Supplemental information:</b>	No information available

### 3. Composition/information on ingredients

#### Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Ammonium Molybdate	12027-67-7	100

### 4. First-aid measures

<b>Inhalation:</b>	Remove to fresh air. Give artificial respiration if not breathing. Have trained personnel administer oxygen if breathing is difficult. Call a physician
<b>Ingestion:</b>	Rinse mouth. Never give anything by mouth to a person who is unconscious.
<b>Skin contact:</b>	Wash off with soap and plenty of water. Consult a physician
<b>Eye contact:</b>	Flush eyes with water as a precaution
<b>Most important symptoms/effects, acute and delayed:</b>	If symptoms persist, please seek medical attention.
<b>General information:</b>	Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves

### 5. Fire-fighting measures

<b>Suitable extinguishing media:</b>	This product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for they type of surrounding fire.		
<b>Unsuitable extinguishing media:</b>	Do not use water jet as an extinguisher, as this will spread the fire		
<b>Specific hazards arising from the chemical</b>	No data available		
<b>Special protective equipment and precautions for firefighters</b>	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode		
<b>Fire-fighting equipment/instructions</b>	Wear self-contained breathing apparatus for firefighting if necessary		
<b>NFPA</b>	Health: 0	Flammability:0	Reactivity: 0

### 6. Accidental release measures

<b>Personal precautions, protective equipment, and emergency procedures:</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
<b>Methods and materials for containment and cleaning up:</b>	Dispose material according to section 13.
<b>Environmental precautions:</b>	Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses, or onto the ground. Avoid release to the environment. Prevent further leakage or spillage if safe to do so

## 7. Handling and storage

<b>Precautions for safe handling:</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

### Exposure Guidelines:

<u>Component</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Ammonium Molybdate	No data available	No data

**Engineering measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

### Personal protective equipment:

<b>Eye/face protection:</b>	Wear protective eyeglasses or chemical safety goggles
<b>Skin and body protection:</b>	Wear appropriate protective gloves and clothing to prevent skin exposure
<b>Respiratory protection:</b>	In case of insufficient ventilation, wear suitable respiratory equipment
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and chemical properties

<b>Appearance:</b>	White, crystalline
<b>Odor:</b>	Ammoniacal
<b>Odor threshold:</b>	No data available
<b>Vapor Pressure (mm Hg):</b>	No data available
<b>Vapor density (Air = 1):</b>	No data available
<b>pH:</b>	No data available
<b>Relative density:</b>	Not determined
<b>Melting point/freezing point:</b>	200 °C
<b>Solubility in Water:</b>	Easily soluble in water
<b>Boiling Point (°F):</b>	No data available
<b>Flash point:</b>	No data available
<b>Evaporative Rate (H<sub>2</sub>O = 1):</b>	No data available
<b>Flammability (solid, gas):</b>	Not flammable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower</b>	No data available
<b>Flammability limit - upper</b>	No data available
<b>Explosive limit – lower</b>	No data available
<b>Explosive limit - upper</b>	No data available

<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Other information:</b>	
<b>Vapor Pressure</b>	Not appli hPa
<b>Specific Gravity</b>	2.276

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No data available
<b>Conditions to avoid:</b>	Heat. Ignition Sources. Incompatible Materials.
<b>Incompatible materials:</b>	Alkali Metals, Lithium. Sodium, Potassium. Strong Acids. Oxidizing Agents.
<b>Hazardous decomposition products:</b>	Nitrogen Oxides (NOx). Molybdenum oxides

## 11. Toxicological information

### Information on likely routes of exposure:

<b>Ingestion:</b>	No data available
<b>Inhalation:</b>	Slight irritation. Coughing
<b>Skin Contact:</b>	May cause slight or mild irritation to the skin.
<b>Eye Contact:</b>	May cause slight or mild irritation

### Information on toxicological effects

**Acute toxicity** This product is not classified as an acute toxicity hazard. See below for individual ingredient acute toxicity data.

<u>Component</u>	<u>LD<sub>50</sub> Oral</u>	<u>LD<sub>50</sub> Dermal</u>	<u>LC<sub>50</sub> Inhalation</u>
Ammonium Molybdate	333 mg/kg (rat)	>2000 mg/kg (rabbit)	No data available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Causes skin irritation
<b>Serious eye damage/irritation</b>	Causes eye irritation. Mild eye irritation. Eye contact may result in redness or pain.
<b>Respiratory Sensitization</b>	May cause irritation of respiratory tract.
<b>Skin sensitization</b>	No data available
<b>Carcinogenicity</b>	No data available

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Substance is not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Substance is not listed.

### U.S. National Toxicology Program (NTP) Report on Carcinogens

	Not regulated
<b>Mutagenic effects</b>	No data available
<b>Reproductive effects</b>	No data available
<b>STOT – single exposure</b>	Not classified
<b>STOT – repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	No data available
<b>Chronic effects</b>	No data available

## 12. Ecological information

<b>Ecotoxicity:</b>	No data available
<b>Persistence and degradability:</b>	No data available.
<b>Bioaccumulation/ Accumulation:</b>	No data available
<b>Mobility in soil:</b>	No data available
<b>Other adverse effects:</b>	No data available

## 13. Disposal considerations

<b>Waste disposal methods:</b>	To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.
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## 14. Transport information

<b>DOT</b>	Not Regulated
<b>TDG (Canada)</b>	Not Regulated
<b>ADR</b>	Not Regulated
<b>IMDG</b>	Not Regulated
<b>RID</b>	Not Regulated
<b>ICAO</b>	Not Regulated
<b>IATA</b>	Not Regulated

## 15. Regulatory information

### U.S. Federal regulations

<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not Applicable
<b>U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not regulated

**CERCLA Hazardous Substances List (40 CFR 302.4)**

Not regulated

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard Categories**      Immediate Hazard – No  
                                 Delayed Hazard – No  
                                 Fire Hazard – No  
                                 Pressure Hazard – No  
                                 Reactivity Hazard – No

**Other Federal regulations**

**Clean Air Act**            Not regulated

**Clean Water Act**        Not regulated

**California Prop 65**      WARNING: This product contains a chemical known to the State of California to cause cancer.

**16. Other information, including date of preparation or last revision**

**Revision date**            January 3, 2023

**Disclaimer**                The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.