

LTS Research Laboratories, Inc. Safety Data Sheet Ammonium Molybdate (Para) Hydrate

1. Product and Company Identification

Trade Name: Ammonium molybdate (para) hydrate

Chemical Formula: $(NH_4)_6Mo_7O_{24}-xH_2O$

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

3. Composition Chemical Family: **Inorganic Compound** Additional Names: Ammonium paramolybdate Ammonium Molybdate (Para) Hydrate ((NH₄)₆Mo₇O₂₄-xH₂O): Percentage: 100 wt% CAS #: 12054-85-2 EC #: 234-722-4 4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Non-flammable Flammability: Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate

absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions:

Protective Action Criteria:

Isolate runoff to prevent environmental pollution.

PAC-1: 2.6 mg/m³ PAC-2: 230 mg/m³

PAC-3: 1,400 mg/m³

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance:

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

Eve Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

N/A Color

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: ca 190°C Flash Point: N/A Autoignition Temperature: N/A Density: 2.498 g/cc

ca 1235.86 g/mol Molecular weight:

10. Reactivity

Stable under recommended storage conditions Stability:

Oxidizing agents Reacts With:

Incompatible Conditions:

Nitrogen oxides, ammonia, molybdenum oxides, metal oxide fume **Hazardous Decomposition Products:**

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation Skin: Causes skin irritation Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: The Registry of Toxic Effects of Chemical Substances (RTECS)

contains multiple dose toxicity data for this substance

Signs & Symptoms: N/A Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

The Registry of Toxic Effects of Chemical Substances (RTECS) Carcinogen:

contains mutation data for this substance

No classification data on carcinogenic properties of this material is

available from the EPA, IARC, NTP, OSHA, ACGIH

12. Ecological Information

Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A

Notes: Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system.

| Dispose of in accordance with local, state, national, and international regulations. | | |
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| Hazardous: | Not hazardous for transportation. | |
| Hazard Class: | N/A | |
| Packing Group: | N/A | |
| UN Number: | N/A | |
| Proper Shipping Name: | N/A | |
| | 15. Regulatory Information | |
| Sec 302 Extremely Hazardous: | N/A | |
| Sec 304 Reportable Quantities: | N/A | |
| Sec 313 Toxic Chemicals: | N/A | |
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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

16. Other Information

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