



**Material Safety Data Sheet**  
**Ammonium molybdate, 4.0 - 7.5%**

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Ammonium molybdate, 4.0 - 7.5%

**Catalog Numbers:**

LC11210, LC11220

**Synonyms:****Company Identification:**

LabChem, Inc.  
 200 William Pitt Way  
 Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
12054-85-2	Ammonium molybdate, tetrahydrate	4.0 - 7.5

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Appearance: Colorless**Caution! May cause eye and skin irritation. May cause digestive tract irritation.**Target Organs: None known.***Potential Health Effects****Eye:**

May cause mild eye irritation.

**Skin:**

May cause skin irritation.

**Ingestion:**

Low human toxicity, high animal toxicity with kidney damage.



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**Inhalation:**

Transitory irritation of throat and lungs.

**Chronic:**

May cause dermatitis and conjunctivitis.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:**

Get medical aid at once. Give oxygen if respiration is depressed. Induce vomiting (touch finger to back of throat) keeping head lower than hips (prevent aspiration into lungs). Medical personnel may use gastric lavage or emesis to remove poison; give activated charcoal. Give conscious victim large quantities of water to dilute.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS# 12054-85-2: Not published.

**Explosion Limits:**

Lower:      Upper:

## Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.



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#### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

**Storage:**

Store capped at room temperature. Protect from heat and incompatibles.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Provide local exhaust or general dilution ventilation.

**Exposure Limits**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Ammonium molybdate, tetrahydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

**OSHA Vacated PELs****Personal Protective Equipment****Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Not required for normal use. Firefighting--any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

#### Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** Colorless

**Odor:** Odorless

**pH:** No information found.

**Vapor Pressure:** No information found.

**Vapor Density:** No information found.

**Evaporation Rate:** No information found.

**Viscosity:** No information found.

**Boiling Point:** No information found.

**Freezing/Melting Point:** No information found.



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**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble.

**Specific Gravity/Density:** >1

**Molecular Formula:** No information found.

**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Heat.

### Incompatibilities with Other Materials

No information found.

### Hazardous Decomposition Products

Oxides of nitrogen, ammonia, toxic and irritating vapors.

### Hazardous Polymerization

## Section 11 - Toxicological Information

### RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 12054-85-2: QA4900000.

### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 12054-85-2:

Inhalation, rat: LC50 =>1930 mg/m<sup>3</sup>/4H

Oral, rat: LD50 = 3883 mg/kg.

### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 12054-85-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

### Epidemiology:

Ammonium molybdate is a severe eye, skin, mucous membrane irritant.

### Teratogenicity:

### Reproductive:

### Mutagenicity:

### Neurotoxicity:

## Section 12 - Ecological Information

No information found.



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**Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

**Section 15 - Regulatory Information**

**US Federal**

**TSCA**

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 12054-85-2 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ)**

None of the components are on this list.

**CERCLA/SARA Section 313**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**US State**

**State Right to Know**

Ammonium molybdate can be found on the following state Right-to-Know lists: New Jersey.

**California Regulations**

**European/International Regulations**

**Canadian DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 12054-85-2 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 12054-85-2 is listed on Canada's Ingredient Disclosure List.

**Section 16 - Other Information**

MSDS Creation Date: May 31, 1998

Revision Date: October 11, 2007



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