



Material Safety Data Sheet

Ammonium Molybdate Solution, 10%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Ammonium Molybdate Solution, 10%

Catalog Numbers:

LC11250

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	10
1310-73-2	Sodium hydroxide	2.5

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear, colorless solution.

Caution! May cause skin and eye irritation. May cause respiratory and digestive tract irritation.

Target Organs: Blood, lungs, eyes, skin, mucous membranes.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause digestive tract irritation with pain, nausea, vomiting, diarrhea, and shock. Molybdenum toxicity in ruminants is characterized by symptoms of copper deficiency.

Inhalation:

Causes irritation of upper respiratory tract with coughing, burns, breathing difficulty.



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Chronic:

Repeated or prolonged contact may cause irritation, dermatitis, conjunctivitis, and mucous membrane irritation.

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.

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.

CAS# 1310-73-2: Health:3 Flammability:0 Reactivity:1

Explosion Limits:

Lower: n/ap Upper: n/ap

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 listed.	None listed.	None listed.
Ammonium molybdate	0.5 mg/m ³ TWA (as Mo, listed under Molybdenum, soluble compounds)	1000 mg/m ³ IDLH (as Mo, listed under Molybdenum, soluble compounds)	5 mg/m ³ TWA (as Mo, listed under Molybdenum, soluble compounds)
Sodium hydroxide	2 mg/m ³ Ceiling	10 mg/m ³ IDLH	2mg/m ³ TWA

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: 7-8.

Vapor Pressure: No information found.



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Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: > 212°F (> 100.00°C)
Freezing/Melting Point: > 32°F (>0°C)
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: >1.0
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:

Incompatible materials, excess heat.

Incompatibilities with Other Materials:

Keep away from acids.

Hazardous Decomposition Products:

Oxides of nitrogen, sodium, ammonia.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 12054-85-2: QA4900000.

CAS# 1310-73-2: WB4900000.

LD50/LC50:

CAS# 7732-18-5:

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

CAS# 12054-85-2:

Inhalation, rat: LC50 =>1930 mg/m³/4H

Oral, rat: LD50 = 3883 mg/kg.

CAS# 1310-73-2:

Draize test, rabbit, eye: 50ug/24H Severe

Draize test, rabbit, skin: 500mg/24H Severe

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.

CAS# 1310-73-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information found.

Teratogenicity:

No information found.



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Reproductive:

No information found.

Mutagenicity:

No information found.

Neurotoxicity:

No information found.

Section 12 - Ecological Information

No information found.

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.

CAS# 1310-73-2 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 1310-73-2: 1000 lb. final RQ; 454 kg final RQ.

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: California (listed as Molybdenum compounds, nos), Minnesota (listed as Molybdenum soluble compounds).

California Regulations:

None



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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.

CAS# 1310-73-2 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 not listed on Canada's Ingredient Disclosure List.

CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 19, 1998

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