



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
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Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Ammonium Molybdate 10%

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

N4335 Temkin Road

Columbus, Wisconsin 53925

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

1-920-623-2140

Date Prepared

06-19-2007

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components, CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Ammonium Molybdate, tetrahydrate*, 12054-85-2, Not available, Not available, See Note**, 10%

*Synonyms:Molybdic Acid, Disodium salt

** OSHA establishes a PEL of 15 mg/m³ (total dust) and 5 mg/m³ (respirable dust) for "Particulates Not Otherwise Regulated."

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value 1, Value 2, Value 3. Rows: Boiling Point (Not Available, Specific Gravity 1.077), Vapor Pressure (Not Available, Melting Point Not available), Vapor Density (Not Available, Evaporation Rate Not Available)

Solubility in Water

Complete

Appearance and Odor

Clear solution

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point, Flammable Limits, LEL, UEL. Row 1: Not flammable, Not Applicable, Not Applicable, Not Applicable

Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	incompatibles
	Stable	X		

Incompatibility Materials to Avoid

oxidizing agents

Hazardous Decomposition or Byproducts

Ammonia, molybdate oxides.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		
	Will Not Occur	X	Not listed

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

SKIN/EYES: May cause irritation of the skin or eyes upon contact. INHALATION: Irritating to the mucous membranes and upper respiratory tract. INGESTION: May cause irritation.

CHRONIC: May affect blood, metabolism, teeth and urinary system.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not listed

Signs and Symptoms of Exposure.

INHALATION: Coughing, wheezing, shortness of breath. INGESTION: Nausea, vomiting, diarrhea, somnolence, coma. EYES: Itching, redness, tearing,. SKIN: Itching, redness, swelling, dermatitis.

Medical Conditions Generally Aggravated by Exposure

Not available

Emergency and First Aid Procedures EYES /SKIN: Immediately flush with large amounts of water for at least 15 minutes.

Remove contact lenses if possible. Assure adequate flushing of eyes by separating eyelids with fingers. Call physician if irritation develops. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. INGESTION: Wash out mouth providing person is conscious. DO NOT induce vomiting. Call a physician.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate unprotected personnel from area. Ventilate spill area. Wear approved respirator rubber boots, heavy protective gloves and chemical safety goggles. Absorb on vermiculite or other material.

Pick up, place in a plastic bag and hold for waste disposal. Ventilate and wash spill area after pick up is complete.

Waste Disposal Method Dispose of material in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing Store in a cool, dry place. Keep containers tightly closed. Do not get into eyes or on skin or clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Other Precautions Containers, even when empty, will retain residue. Always obey hazard warnings and handle empty containers as if they were full.

Section VIII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator if necessary

Ventilation	Local Exhaust	Recommended.	Special	Safety shower nearby.
	Mechanical (General)	Acceptable	Other	Eyewash station nearby.

Protective Gloves Compatible, chemical-resistant gloves. **Eye Protection** Chemical Safety Goggles.

Other Protective Clothing or Equipment Boots; clean body-covering clothing

Work /Hygienic Practices Do NOT wear contact lenses while handling this material. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing.

Use only with adequate ventilation. Avoid prolonged or repeated exposure.

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