



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

AMMONIUM MOLYBDATE TETRAHYDRATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Ammonium Heptamolybdate, Ammonium Paramolybdate

CAS #: 12027-67-7

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ammonium Molybdate	81% min.
Water	Remainder

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: It presents little or no health hazard and no unusual hazard if involved in a fire.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation due to reaction of skin moisture with the Ammonia content.

Eyes: May cause irritation or burning due to Ammonia content.

Inhalation: May cause irritation to the respiratory tract and chest discomfort.

Ingestion: Ingestion of small amounts presents little or no hazard.

CHRONIC EFFECTS: None Identified

Target Organs: Respiratory system and lungs

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Call a physician. Do not induce vomiting. If conscious, give water, milk, or milk of magnesia.

On All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non combustible (Dry Product)

Flammable Limits: Non combustible (Dry Product)

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: None Identified

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION cont'd

WORK, HYGIENIC PRACTICES:

Ammonium Molybdate Tetrahydrate

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As required to protect skin and eyes from dust Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS:

Threshold Limit Value (TLV/TWA): 5 mg/m³

TLV is for Molybdenum, soluble compounds, as Mo.

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): 5 mg/m³

PEL is for Molybdenum, soluble compounds, as Mo.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): 2.5

Specific Gravity (H₂O=1): 2.27

Bulk Density: Not Available

Percent Volatile by Volume (%): 0

Melting Point: 190°C (374°F)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Appreciable

pH: 5

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

Conditions to Avoid: Heat

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia

KEEP AWAY FROM: Strong Acids

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral Rat LD₅₀ For Ammonium Molybdate, 4-Hydrate 333 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not discharge to sewer or natural waters or drainages. While Ammonium Heptamolybdate is generally considered non-hazardous, disposal must be made in accordance with EPA and/or state and local regulations. Ammonium Molybdate is not a listed hazardous waste.

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME:.....Ammonium Molybdate Tetrahydrate

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not Listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Not Considered a Hazard.

SECTION 16 - OTHER INFORMATION

Reason for Issue: Changed Date

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