

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-120/12027-67-7.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
12027-67-7  
**Code:**  
M

**RTECS:**  
QA5076000  
**Code:**  
M

**Name:**  
AMMONIUM MOLYBDATE

**Other REC Limits:**  
NONE SPECIFIED

**OSHA PEL:**  
5 MG MO/M3  
**Code:**  
M

**OSHA STEL:**

**Code:**  
2

**ACGIH TLV:**  
5 MG MO/M3  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ACID MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

**Ventilation:**  
USE MECHANICAL (GENERAL) OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

**Protective Gloves:**  
5 RUBBER GLOVES

**Eye Protection:**  
SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

**Other Protective Equipment:**  
Equipment EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AND RUBBER BOOTS AS REQUIRED.

**Work Hygienic Practices:**  
USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID ALL CONTACT IF POSSIBLE.

**Supplemental Safety and Health:**  
SECOND EMERGENCY PHONE NUMBER IS OF THE ROCKY MOUNTAIN POISON CENTER.

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL RAT) IS UNKNOWN

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE-MAY BE CORROSIVE TO EYES,SKIN AND RESPIRATORY TRACT.SULFURIC ACID IS CORROSIVE TO ALL BODY TISSUES.MOLYBDENUM COMPOUNDS MAY CAUSE LOSS OF COORDINATION,MAY EFFECT ENZYME ACTIVITY,MAY INDUCE COPPE R DEFICIENCY.CHRONIC TOXICITY-EROSION OF TEETH.MAY CAUSE GOUT.

**Explanation Of Carcinogenicity:**  
THIS PRODUCT IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

**Signs And Symptions Of Overexposure:**  
EYE: SEVERE IRRITATION,BURNS SKIN:SEVERE IRRITATION,BURNS. INHALED;IRRITATION,BURNS TO RESPIRATORY TRACT,COUGHING. INGESTED:G/I DISTRESS,BURNS.

**Medical Cond Aggravated By Exposure:**  
PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT, BLOOD DISEASE AND GOUT MAY BE AT INCREASED RISK FROM EXPOSURE.

**First Aid:**  
EYE AND SKIN CONTACT:IMMEDIATELY FLUSH W/WATER FOR 15 MINUTES.REMOVE CONTAMINATED CLOTHING.CALL PHYSICIAN.INHALATION:REMOVE TO FRESH AIR.RESTORE BREATHING IF NECESSARY.CALL PHYSICIAN.INGESTED:DO NOT I NDUCE VOMITING.GIVE LARGE QUANTITIES OFWATER.GIVE AT LEAST 1 OUNCE OF MILK OF MAGNESIA IN AN EQUAL AMOUNT OF WATER, OR THE WHITE OF 3 EGGS.GET IMMEDIATE MEDICAL CARE.GIVE NOTHING TO UNCONSCIOUS ONE.

**Spill Release Procedures:**  
WEAR APPROPRIATE PROTECTIVE CLOTHING.COVER THE CONTAMINATED SURFACE WITH SODIUM BICARBONATE OR A SODA ASH- SLAKED LIME MIXTURE (50-50).MIX AND ADD WATER IF NECESSARY TO FORM A SLURRY.SCOOP UP SLURRY AN D WASH THE SITE WITH SODA ASH SOLUTION.

**Neutralizing Agent:**  
SODIUM BICARBONATE OR 50/50 LIME AND SODA ASH

**Waste Disposal Methods:**  
DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.THE ABOVE NEUTRALIZED SLURRY MAY CONTAIN SUFFICIENT HEAVY METAL CONCENTRATION TO REQUIRE LA NDFILLING/TREATMENT AT AN EPA APPROVED SITE. 4

**Handling And Storage Precautions:**  
KEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA. KEEP CONTAINERS OUT OF SUN AND AWAY FROM HEAT. ISOLATE FROM INCOMPATIBLE MATERIALS.

**Other Precautions:**  
WASH THOROUGHLY AFTER HANDLING.AVOID CONTACT WITH EYES, SKIN AND CLOTHING.DO NOT BREATHE CHEMICALS.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
CC

**Flash Point:**

**Flash Point Text:**  
>212F,>100C

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/K

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
CARBON DIOXIDE, ALCOHOL FOAM, OR DRY CHEMICAL.

**Fire Fighting Procedures:**  
FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.

**Unusual Fire/Explosion Hazard:**  
FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF TOXIC FUMES.

## Physical/Chemical Properties

**HCC:**  
C1

**NRC/State LIC No:**  
N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
214F,101C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/R

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
UNKNOWN

**Vapor Density:**  
UNKNOWN

**Volatile Org Content %:**

**Spec Gravity:**  
1.280

**VOC Pounds/Gallon:**

**PH:** <0,5

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
0.40

**Solubility in Water:**  
MISCIBLE 6

**Appearance and Odor:**  
CLEAR, COLORLESS LIQUID, NO ODOR

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
4.245

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXTREME TEMPERATURES AND LIGHT

**Materials To Avoid:**  
STRONG OXIDIZING AGENTS

**Hazardous Decomposition Products:**  
TOXIC FUMES OF SULFUR OXIDES, NITROGEN OXIDES, AMMONIA

**Hazardous Polymerization Indicator:**  
N/P

**Conditions To Avoid Polymerization:**  
UNKNOWN

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P