

LIQUID MOLY

Material Safety Data Sheet (rev.01/05)

**SECTION I PRODUCT IDENTIFICATION**

**NFPA HAZARD RATINGS**  
 HEALTH HAZARD 3      FIRE HAZARD 0      REACTIVITY 1  
**SARA/ TITLE III HAZARD CATEGORIES**

Company Name:	STOLLER USA, INC.
Address:	4001 W. Sam Houston Parkway, N., Suite 100 Houston, Texas 77043-1226 U.S.A.
Emergency Phone Number:	CHEMTREC: In the U.S. and Canada call Toll-free: 1 (800) 424-9300 From other countries call collect: 1 (703) 527-3887
Phone Number for Information:	1 (800) 539-5283 or 1 (713) 461-1493
Chemical Family:	Solution of Organic Base with molybdenum metal.
Chemical Name & Synonyms:	Liquid fertilizer with molybdenum.
Formula:	Proprietary
Trade name & Synonyms:	<b>LIQUID MOLY</b>

**SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS**

INGREDIENTS:	CAS#	Approx. %	TLV
Sodium molybdate, dihydrate	7631-95-0	5-15%	0.59 ppm
Sulfuric Acid	7664-93-9	1	1 mg/ m <sub>3</sub>

**SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>BOILING POINT:</b>	220° F	<b>VAPOR PRESSURE (mm/ Hg):</b>	
<b>MELTING POINT:</b>	N/ A	<b>VAPOR DENSITY (air = 1):</b>	2.1
<b>SPECIFIC GRAVITY:</b>	1.18	<b>REACTIVITY IN WATER:</b>	N/ A
<b>SOLUBILITY IN WATER:</b>	100%	<b>EVAPORATION RATE:</b>	0.1
<b>APPEARANCE AND ODOR:</b>	Clear yellow solution, no odor.		
<b>PERCENT VOLATILE BY VOLUME:</b>			N/ A

**SECTION IV FIRE AND EXPLOSION DATA**

<b>FLASH POINT:</b>	NOT ESTABLISHED	<b>LEL:</b>	<b>UEL:</b>
<b>FLAMMABLE LIMITS:</b>	NOT ESTABLISHED		
<b>EXTINGUISHER MEDIA:</b>	NONE		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	NONE		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	NONE		

**SECTION V****PHYSICAL HAZARDS (REACTIVITY DATA)**

**STABILITY:**  
**CONDITIONS TO AVOID:**  
**INCOMPATIBILITY, MATERIALS TO AVOID:**  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
**HAZARDOUS POLYMERIZATION:**  
**MAY OCCUR:**                      **WILL NOT OCCUR: X**

Stable: Yes                      Unstable:  
Stable under normal conditions.  
N/ A  
Ammonia, amines, carbon dioxide.  
WILL NOT OCCUR

**SECTION VI****HEALTH HAZARDS**

**A. EXPOSURE LIMITS:**  
1. OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED  
2. Threshold Limit Value (TLV): NOT ESTABLISHED  
**B. CARCINOGEN OR POTENTIAL CARCINOGEN:**  
1. NPT: N/ A  
2. IARC: N/ A  
3. OSHA: N/ A  
**C. EFFECTS OF OVEREXPOSURE:**  
1. **ACUTE:**  
**EYES:** Contact with product may cause severe irritation and possibly irreversible damage.  
**SKIN:** Harmful if absorbed through broken skin. Large doses may cause liver and kidney damage. May cause, discomfort, injury and death unless treated promptly.  
**INHALATION:** Prolonged exposure to low concentrations of vapors may cause: sore throat and headache which are temporary.  
**INGESTION:** May cause malaise, nausea, gastrointestinal damage, or even death.  
**D. EMERGENCY FIRST AID PROCEDURES:**  
**EYES:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.  
**SKIN:** Remove product & immediately flush affected area with water for 15 minutes. Do not apply greases or ointments. Launder contaminated clothing.  
**INHALATION:** Move patient to fresh air. Supplemental oxygen may be indicated. Assure mucous does not obstruct airway. Call Physician.  
**INGESTION:** If swallowed, call a physician immediately. Do not induce vomiting.  
**E. ANIMAL TOXICITY DATA:**N/ A  
**F. ADDITIONAL INFORMATION:**N/ A

**SECTION VII****SPECIAL PRECAUTIONS & SPILL/ LEAK PROCEDURES**

**HANDLING AND STORAGE:**Keep containers closed and away from oxidizing agents. Store only in shipping container: Bulk material should be stored in Polyethylene Tanks with PVC fittings.  
**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** It is necessary to contain spill into the smallest area possible by diking, etc., replace liquid into plastic container. If liquid is absorbed onto dry carrier such as soil or absorbent material, then this material should be put in covered labeled containers and dispose of as a dry waste.  
**WASTE DISPOSAL METHODS:** Follow all applicable federal, state and local regulations.

**SECTION VIII****SPECIAL PROTECTION / CONTROL MEASURES**

**RESPIRATORY PROTECTION:** N/ A.  
**LOCAL EXHAUST:** Provide general or local exhaust ventilation.  
**SPECIAL VENTILATION:** Not applicable.  
**PROTECTIVE GLOVES:** Wear protective gloves and clothing impervious to this material.  
**EYE PROTECTION:** Use chemical goggles. Use full- face respirator when there is any likelihood of splashes.  
**OTHER SPECIAL CLOTHING/ EQUIPMENT:** Eye wash fountain should be located in immediate work area.  
**WORK/ HYGIENIC PRACTICES:** Wash hands and all exposed areas thoroughly after using this product.

**SECTION IX****ENVIRONMENTAL EFFECTS DATA**

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This product is to be used only on crops which respond to molybdenum. Crops high in molybdenum content may be toxic to grazing animals (ruminants). The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of as a Fertilizer (see above under Waste Disposal Methods).

**SECTION X****TRANSPORTATION DATA**

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**PROPER SHIPPING NAME: LIQUID MOLY**

**DOT HAZARD CLASS:** Non- Hazardous Material; Non- Regulated Material

**PLACARD:** N/ A

**IATA Proper Shipping Name:** N/ A

**IMO Proper Shipping Name:** N/ A

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