

Safety Data Sheet

NutriSol 10% Molybdenum

SDS Number: 11314
 SDS Prepared: 01/05/2018
 SDS Version: 1.0
 Version Date: 01/05/2018

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NutriSol 10% Molybdenum

CHEMICAL FAMILY: Sodium Molybdate

COMMON NAME: Molybdenum Liquid

EPA REGISTRATION NUMBER: Not regulated

Manufactured by:
 Coastal AgroBusiness Inc.
 PO Box 856
 Greenville, NC 27835
 Phone: 1-800-635-1388

Emergency Telephone Numbers
 Chemtrec (24 hours)
 1-800-424-9300
 Coastal AgroBusiness, Inc. (Weekdays – Eastern Standard Time)
 1-800-635-1388

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION- Avoid contact with eyes, skin, and clothing. May be harmful if swallowed or inhaled. Do not take internally. Keep out of reach of children.

This product is a clear liquid, with no offensive odor. Primary routes of entry are eye contact and skin contact.

GHS Label elements, including precautionary statements/

EMERGENCY OVERVIEW

OSHA HCS Status: This product is not a hazardous chemical, as defined by OSHA 29 CFR 1910.1200. Based on information available at the time of the development of this Safety Data Sheet, the product does not meet the criteria necessary to be classified as an OSHA or GHS hazard chemical. No tests on the product were performed to make this determination. This product could have unforeseen hazards and should be handled with care. Check with your Safety Manager for suggestions on precautions and procedures that you should follow when working with this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>PEL/TLV</u>
Molybdenum	10%	7631-95-0	N/A
Inert Ingredients	Balance	Proprietary	N/A

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least fifteen minutes, holding eyelids apart to ensure flushing of the entire eye surface. Do not let victim rub eyes. Seek medical attention.

SKIN: Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.

- INGESTION:** Call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
- INHALATION:** Remove person from area of exposure and support breathing as needed. Seek medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

- FLASH POINT (°F/Test Method):** Not applicable
- FLAMMABLE LIMITS (LFL & UFL):** Not determined
- EXTINGUISHING MEDIA:** Foam, CO₂, Dry Chemical, and Water; Class BC, ABC Fire Extinguisher
- HAZARDOUS COMBUSTION PRODUCTS:** Toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.
- SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Clear fire area of unprotected personnel. Cool fire exposed containers with water. Attack from upwind.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may explode from vapor expansion in high heat. Contain run off by diking to prevent contamination to water supplies.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Small spills: Clean up personnel should protect against mist inhalation and skin contact. Avoid generating mists. Spills when handling should be cleaned up immediately to prevent spreading.

Large Spills: Clean up personnel should protect against mist inhalation and skin contact. Avoid generating mists. Dike the spill to minimize contaminated area and facilitate salvage or disposal. Recover material for use, reprocessing or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

- HANDLING:** Store in cool, dry areas away from children, feed and food products and sources of heat. Immediately clean up spills occurring during handling or storage.
- STORAGE:** Protect from freezing, keep containers closed when not in use. Do not store in aluminum or metal vessels.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- THRESHOLD LIMIT VALUE:** NOL
- PERMISSIBLE EXPOSURE LIMIT:** NOL
- SIGNS AND SYMPTOMS OF EXPOSURE:** Irritation of skin and eyes. Contact with eyes is painful and irritating. Overexposure: Prolonged skin contact may cause moderate irritation. May cause severe eye injury.
- MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Preexisting eye and skin disorders may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.
- ENGINEERING CONTROLS:** Use adequate exhaust ventilation to prevent inhalation of product vapors.
- RESPIRATORY PROTECTION:** None required with adequate ventilation. Use NIOSH-approved respiratory protection equipment if misty conditions exist.
- EYE PROTECTION:** Avoid contact with eyes. Wear full face shield or chemical splash goggles when handling. Do not wear contact lenses.
- SKIN PROTECTION:** Avoid contact with skin. USDA accepted nitrile or neoprene rubber gloves are recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND COLOR:	Clear liquid, no offensive odor.
SPECIFIC GRAVITY: (Water=1):	1.199 (10 lbs gal)
VAPOR PRESSURE:	N/A
VAPOR DENSITY (Air = 1):	N/A
% VOLATILITY (V/V):	N/A
BOILING POINT:	212°F
FREEZING POINT:	32°F
SOLUBILITY:	654 g/L in water @ 20°C
pH:	7 – 7.2 (10% aqueous solution)
VISCOSITY @ 20°C:	≈2.2 cps @ 25°C
Note:	These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY:	Stable at room temperature in closed containers under normal storage and handling conditions.
CONDITIONS TO AVOID:	Extreme Temperatures (above 250°C)
INCOMPATIBILITY:	Strong bases and acids
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.
HAZARDOUS POLYMERIZATION:	Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀:	Between 2733 and 6556 mg/kg bw (male/female)
EYE IRRITATION:	Irritant
SKIN EFFECTS:	May cause irritation
CHRONIC EFFECTS:	No unusual chronic effects
CARCINOGENICITY:	Not listed as carcinogenic
ACUTE INHALATION EFFECTS:	Not determined
ACUTE ORAL EFFECTS:	Not determined.

12. ECOLOGICAL INFORMATION

SOIL ABSORPTION/MOBILITY:	Mobile in soil profile
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13. DISPOSAL CONSIDERATIONS

Do not reuse container. Place in trash or offer for recycling. Incinerate contaminated solids in accordance with local, state, and federal regulations.

Waste Disposal Methods: Dispose of in accordance with Local, State, and Federal regulations. Incineration in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted treatment facilities is recommended. Material collected with absorbent may be disposed of in a permitted landfill in accordance with Federal, State, and Local regulations. Triple rinse container and dispose of in accordance with all Local, State, and Federal regulations or offer for recycling.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Description: NOT REGULATED BY DOT BY HIGHWAY.
Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA

1 Health
0 Flammability
1 Reactivity

SARA Hazard Notification/Reporting SARA Title III Hazard Category:

Immediate: Y Fire: N
Delayed: N Reactive: N
Sudden Release of Pressure: N
None

Reportable Quantity (RQ) under U.S. CERCLA:

SARA, Title III, Section 313:

Contains no chemical subject to SARA 313

RCRA Waste Code:

Not listed

CA Proposition 65:

This product may contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

16. OTHER INFORMATION

SDS STATUS:

Developed

REASON FOR CHANGE:

New product

PREPARED BY:

Tandy O. Dunn, Director of Health, Safety & Environmental Affairs

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NutriSol
10% Molybdenum