

**SECTION 1: IDENTIFICATION**

**Product Name:** Nutriseed ZnMo Plus  
**Recommended Use:** Fertilizer; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Name:** Zinc and Molybdenum mixture  
**Manufactured for:** Vivid Life Sciences, LLC  
 P.O. Box. 41632  
 Minneapolis, MN 55441

**For Medical Exposure Concerns, Contact the Poison Control Center: 1-800-222-1222**

**SECTION 2: HAZARD(S) IDENTIFICATION**

**EMERGENCY OVERVIEW:** Green liquid. Causes eye irritation.

**OSHA HCS CLASSIFICATION (29 CFR 1910.1200)**

Eye Corrosion/Irritation	Category 2A
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**Signal Word:** WARNING  
**Hazard Statement(s):** Causes serious eye irritation.  
**Precautionary Statement(s):** **Prevention:** Wash hands thoroughly after handling. Wear eye protection/face protection.  
**Response: IF IN EYES:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.  
**Storage:** No statement required. See section 7 for storage information.  
**Disposal:** No statement required. See section 13 for disposal information.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity:

- 54.2% Acute Oral Toxicity
- 100.0% Acute Dermal Toxicity
- 100.0% Acute Inhalation Toxicity
- 74.94% Eye irritation
- 74.94% Skin irritation
- 74.94% Skin sensitization

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %
Zinc EDTA	15954-98-0	17.0 – 23.0%
Sodium molybdate dehydrate	10102-40-6	3.0 – 8.0%

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

<b>SECTION 4: FIRST AID MEASURES</b>	
<b>IF IN EYES:</b>	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.
<b>IF ON SKIN:</b>	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.
<b>IF INHALED:</b>	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
<b>IF INGESTED:</b>	Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Note to Physician:</b> Treat symptomatically	
<b>Most important symptoms/effects, acute and delayed:</b> Eye irritation including redness, itching and tearing.	

<b>SECTION 5: FIRE-FIGHTING MEASURES</b>	
<b>Suitable Extinguishing Media:</b>	Water fog, foam, dry chemical, carbon dioxide (CO <sub>2</sub> ), water spray
<b>Unsuitable Extinguishing Media:</b>	None known
<b>Hazardous Combustion Products:</b>	Thermal decomposition may include toxic and hazardous oxides of carbon, nitrogen and zinc.
<b>Special Protective Equipment &amp; Precautions:</b>	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
<b>Unusual Fire &amp; Explosion Hazards:</b>	Closed containers may explode from vapor expansion in high heat.

<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal Precautions:</b>	See Section 8 for personal protection equipment.
<b>Environmental Precautions:</b>	Do not allow spilled product to enter sewers or waterways.
<b>Methods for Containment:</b>	Contain spilled product by diking area with sand or earth.
<b>Methods for Clean-up:</b>	Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
<b>Other Information:</b>	None known

<b>SECTION 7: HANDLING AND STORAGE</b>	
<b>Handling:</b>	Ensure adequate ventilation during handling and use. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
<b>Storage:</b>	Store in a secured area away from children, feed and food products. Store in original container only and in a cool, well-ventilated dry place above the minimum storage temperature.
<b>Storage Temperature (Min/Max):</b>	40°F
<b>Product Incompatibilities:</b>	Strong bases, acids and oxidizers.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines:**

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Nuisance particulate (liquefied mist)		10 mg/m <sup>3</sup> TWA	
Sodium molybdate dihydrate	5 mg/m <sup>3</sup> TWA	0.5 mg/m <sup>3</sup> TWA	

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If airborne concentrations exceed permissible levels or if a pre-existing respiratory condition exists, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.

**Eye Protection:** Wear chemical goggles or safety glasses and full face shield. Contact lenses are not protective eye devices.

**Protective Gloves:** Wear chemically protective gloves.

**Other Protective Clothing:** Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.

**General Safety Measures:** Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Green liquid	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Not determined	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH:</b>	5.5 – 6.5	<b>Relative Density:</b>	1.16 -1.2 (typical)
<b>Melting /Freezing Point:</b>	Not determined	<b>Solubility (water):</b>	Solubel
<b>Boiling Point/Range:</b>	>212°F (>100°C)	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	Not combustible	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Contact with strong oxidizers may result in a fire.
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	Will not occur
<b>Conditions to Avoid:</b>	Excessive heat
<b>Incompatible Materials:</b>	Strong bases, acids and oxidizers.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may include toxic and hazardous oxides of carbon, nitrogen and zinc.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Eye contact, Skin contact, Inhalation, Ingestion  
**Symptoms of Exposure:** Eye irritation including redness, itching and tearing.  
**Oral LD<sub>50</sub>:** >5,000 mg/kg (Estimated based upon component data)  
**Dermal LD<sub>50</sub>:** Not determined  
**Inhalation LC<sub>50</sub>:** Not determined  
**Eye Irritation/Damage:** Anticipated to cause serious eye irritation based upon component data.  
**Skin Corrosion/Irritation:** Not anticipated to cause skin irritation based upon component data.  
**Skin Sensitization:** Not anticipated to be a skin sensitizer based upon component data.

**Chronic/Sub-chronic Toxicity:** None known  
**Mutagenicity:** None known  
**Reproductive Toxicity:** None known  
**Neurotoxicity:** None known  
**Target Organs:** Respiratory tract  
**Aspiration Hazard:** None  
**Carcinogenicity:**

Chemical Name	ACGIH	IARC	NTP	OSHA
No components listed				

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICITY DATA:**

**Fish Toxicity:** Not determined  
**Aquatic Invertebrate Toxicity:** Not determined  
**Aquatic Plant Toxicity:** Not determined  
**Avian Toxicity:** Not determined  
**Honeybee Toxicity:** Not determined

**ENVIRONMENTAL**

**EFFECTS:**

**Persistence and Degradability:** Not determined  
**Bioaccumulation:** Not determined  
**Mobility:** Not determined  
**Other Adverse Effects:** Not determined

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Dispose of in accordance with applicable Federal, state and local laws and regulations.  
**Container Disposal:** Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.  
**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT (Ground):** This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.

**IMDG (Sea):** This product is not regulated by the IMDG as a hazardous material for shipment by sea.

**IATA (Air):** This product is not regulated by the IATA as a hazardous material for shipment by air.

**SECTION 15: REGULATORY INFORMATION**

**TSCA Inventory:** All components are either listed or exempt from listing on the TSCA inventory.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None listed

**Section 311/312 – Hazard Categories:** Immediate (Acute)

**Section 313** – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
Zinc compounds	N982	17.0 – 23.0%

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
None listed			

**CALIFORNIA PROPOSITION 65:**

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium molybdate dehydrate	X		X
Zinc compounds	X		

**SECTION 16: OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special Hazards</b> – None
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