



SECTION 1: IDENTIFICATION

Product Name: Nutriseed Zn

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: Urea and zinc 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: Beige liquid with no odor. Causes eye irritation. Inhalation of large concentrations of vapor may cause respiratory irritation.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Eye Corrosion/Irritation	Category 2B
Specific Target Organ Toxicity – Single Exposure	Category 3



Signal Word: WARNING

Hazard Statement(s): Causes eye irritation.

May cause respiratory irritation.

Precautionary Statement(s): Prevention: Avoid breathing mist, spray or fumes. Wash hands thoroughly

after handling. Use only outdoors in a well-ventilated area.

Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor for treatment advice if you

feel unwell.

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: Store in a well-ventilated and secured place. Keep container tightly

closed.

Disposal: Dispose of contents/container in accordance with Federal, state

and local regulations.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity: 100%

SECTION 3: COMPOSTION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Zinc oxide	1314-13-2	49.0%
Urea	57-13-6	5.0 - 10.0%

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

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SECTION 4: FIRST AID MEASURES			
IF IN EYES:	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.		
IF ON SKIN:	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.		
IF INHALED:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.		
IF INGESTED:	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.		
Note to Physician: T	Freat symptomatically		
Most important syn itching and tearing.	nptoms/effects, acute and delayed: Respiratory irritation, eye irritation including redness,		

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Water fog, foam, dry chemical, carbon dioxide (CO2), water spray

Media:

Unsuitable Extinguishing None known

Media:

Hazardous Combustion

Products:

Thermal decomposition may include toxic and hazardous oxides of zinc.

Special Protective

Equipment & Precautions:

bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Wear NIOSH/MSHA approved self-contained breathing apparatus and full

Unusual Fire & Explosion

Hazards:

Closed containers may explode from vapor expansion in high heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection equipment.

Environmental

Do not allow spilled product to enter sewers or waterways. **Precautions:**

Methods for Containment: Contain spilled product by diking area with sand or earth. 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 **Methods for Clean-up:**

container for disposal. Do not place spilled material back in original container.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

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 Handling:

material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

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.

40°F **Storage Temperature (Min/Max):**

Product Incompatibilities: Strong bases, acids and oxidizers.

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Storage:





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Nuisance particulate (liquefied mist)		$10 \text{ mg/m}^3 \text{ TWA}$	

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

Appearance: Beige liquid **Upper/Lower Flammability Limits:** Not determined Odor: No odor Vapor Pressure: Not determined **Odor Threshold:** Not determined Vapor Density: Not determined 8.5 - 10**Relative Density:** 1.78 (typical) pH: 50% 40°F (4°C) **Solubility (water): Melting /Freezing Point: Boiling Point/Range:** 223°F (106°C) **Partition Coefficient:** Not determined **Flash Point:** Not combustible Not determined **Auto-ignition Temperature: Evaporation Rate:** Not determined **Decomposition Temperature:** Not determined Flammability: Not applicable Viscosity: Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Contact with strong oxidizers may result in a fire. **Chemical Stability:** Stable under normal storage and handling conditions.

Possibility of Hazardous Will not occur

Reactions:

Conditions to Avoid: Excessive heat

Incompatible Materials: Strong bases, acids and oxidizers.

Hazardous Decomposition Thermal decomposition may include toxic and hazardous oxides of zinc.

Products:

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, Skin contact, Inhalation, Ingestion

Symptoms of Exposure: Respiratory irritation, eye irritation including redness, itching and tearing.

Oral LD50: Not determined

Dermal LD50: Not determined

Inhalation LC50: Not determined

Eye Irritation/Damage: Causes eye irritation.

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Skin Corrosion/Irritation: Contact may cause temporary irritation. **Skin Sensitization:** Not anticipated to be a skin sensitizer.

None

Chronic/Sub-chronic

None known

Toxicity:

Mutagenicity:None knownReproductive Toxicity:None knownNeurotoxicity:None knownTarget Organs:Respiratory tract

Aspiration Hazard:

Carcinogenicity:

ACGIH	IARC	NTP	OSHA

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Chemical Name None listed

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

ENVIRONMENTAL

EFFECTS:

Persistence and Degradability:Not determinedBioaccumulation:Not determinedMobility:Not determinedOther 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 This product is not regulated by the U.S. Department of Transportation as a hazardous material

(**Ground**): 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.

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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 %	SARA 313 – Threshold Values %
Zinc compounds	N982	49.0%	10,000 lbs

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
Zinc oxide	X	X	X

SECTION 16: OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 0	Instability 0	Special Hazards – None
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