

## Nano Zinc - Nanovatz SL

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Nano Zinc - Nanovatz SL
<b>Other Means of Identification</b>	Liquid micronutrient fertilizier
<b>Recommended Use</b>	The user should seek the advice of the county agricultural representative or a professional agricultural consultant.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	NutriAg Limited, 39 Gail Grove, Toronto, Ontario, M9M 1M5
<b>Emergency Phone No.</b>	Canutec, 613-996-6666, 24 hours
<b>SDS No.</b>	0158
<b>Date of Preparation</b>	December 13, 2016

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Eye irritation - Category 2A; Aquatic hazard (Acute) - Category 2; Aquatic hazard (Chronic) - Category 3

#### Label Elements



Signal Word:

Warning

Hazard Statement(s):

H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P264 Wash hands and skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear eye protection/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

Hazard Not Otherwise Classified (HNOC).

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Withheld as trade secret	CBI*	21.56	N/A
Withheld as trade secret	CBI*	1.55	N/A

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

#### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do.

#### Ingestion

Rinse mouth with water. Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

### Most Important Symptoms and Effects, Acute and Delayed

If in eyes: causes serious irritation.

### Immediate Medical Attention and Special Treatment

#### Target Organs

Eyes, respiratory system, skin.

#### Special Instructions

Provide general supportive measures and treat symptomatically.

#### Medical Conditions Aggravated by Exposure

None known.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

### Specific Hazards Arising from the Product

By heating and fire, irritating vapours/gases may be formed.

### Special Protective Equipment and Precautions for Fire-fighters

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Restrict access to area until completion of cleanup. Ensure cleanup is conducted by trained personnel only. Wear adequate personal protective equipment.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

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## Methods and Materials for Containment and Cleaning Up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### Other Information

See Section 8 for personal protective equipment. For waste disposal, see section 13.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Do not get in eyes. Transfer equipment should be constructed of chemical-resistant plastic or stainless steel. Do not store in aluminum or steel containers. Wear chemically protective equipment during handling. Use in a well-ventilated area. Do not breathe vapours or mists. Avoid contact with eyes, skin and clothing. Do not wear contact lenses while handling this material. Wash thoroughly after handling. Keep away from extreme heat and flame. Use caution when opening containers.

### Conditions for Safe Storage

Store in an area that is: well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity).

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Withheld as trade secret	Not established		Not established			

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

### Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Not required, if used as directed.

#### Respiratory Protection

Not normally required if product is used as directed. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Dark brown.
Odour	Fruity
Odour Threshold	Not available
pH	6 - 7
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available

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<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/Lower Flammability or Explosive Limit</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (air = 1)</b>	Not applicable
<b>Relative Density (water = 1)</b>	1.23 - 1.24 at 20 °C (68 °F)
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Incompatible materials.

### Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid).

### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; eye contact.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Withheld as trade secret		794 mg/kg (rat)	
Withheld as trade secret		1920 mg/kg (mouse)	

### Skin Corrosion/Irritation

Not Classified as a skin irritant.

### Serious Eye Damage/Irritation

Causes serious eye irritation.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Not Classified.

#### Skin Absorption

Not Classified.

**Ingestion**

Not Classified.

**Aspiration Hazard**

Not classified.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Not classified.

**Respiratory and/or Skin Sensitization**

Not classified.

**Carcinogenicity**

Not classified.

**Reproductive Toxicity**

**Development of Offspring**

Not Classified.

**Sexual Function and Fertility**

Not Classified.

**Effects on or via Lactation**

Not Classified.

**Germ Cell Mutagenicity**

Not classified.

**Interactive Effects**

Not Classified.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic life, May cause long lasting harmful effects to aquatic life.

**Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Withheld as trade secret	0.55 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)			

**Persistence and Degradability**

Not available.

**Bioaccumulative Potential**

Not available.

**Mobility in Soil**

Not available.

**Other Adverse Effects**

Not known.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Dispose in accordance with all applicable federal, provincial, and local regulations. Empty containers retain product residue. Follow label warnings even if container appears to be empty. Dispose of or recycle empty containers through an approved waste management facility.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

**Special Precautions** Please note: None known.

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**Other Information** IMDG: Not regulated for transport.

## SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations**

**Canada**

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL/NDSL.

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed, or not specifically listed.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** NutriAg Limited

**Phone No.** 416-636-1555

**Date of Preparation** December 13, 2016

**Date of Last Revision** March 27, 2017

**Revision Indicators** Version 2.0

The following SDS content was changed on March 27, 2017:

SECTION 14. TRANSPORT INFORMATION; Shipping Information.

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