

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED By:

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PRODUCT NAME: Vita Zn
CHEMICAL NAME: Organic and Inorganic Fertilizer Solution

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2. HAZARDS IDENTIFICATION SUMMARY

GHS RATINGS:

Signal Word: WARNING

GHS Hazards:

Specific target organ toxicity (repeated exposure) Category 2
Causes eye irritation Category 2A



Hazard Statements:

H302 – Harmful if swallowed
H319 – Causes serious eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure

Precautions:

P102-Keep out of reach of children
P103-Read label before use
P203-Obtain, read and follow all safety instructions before use
P233-Keep container tightly closed
P234-Keep only in original container
P260-Do not breathe dust/fume/gas/mist/vapors/spray
P264+P265-Wash hands thoroughly after handling. Do not touch eyes
P270-Do not eat, drink or smoke when using this product
P280-Wear protective gloves, protective clothing and eye protection.

Response:

P301+P317-IF SWALLOWED: Get medical help
P302+352-IF ON SKIN: Wash with plenty of soap and water
P304+340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing cautiously.
P337+P317-If eye irritation persists: Get medical help
P318-If exposed or concerned, get medical advice
P319-Get medical help if you feel unwell
P321-Specific treatment (see first aid measures on this SDS).
P330-Rinse mouth
P332+P317-If skin irritation occurs: Get medical help
P362+P364-Take off contaminated clothing and wash it before use

Storage:

P405-Store locked up
P501-Dispose of container in accordance with local regulations

3. COMPOSITION & INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage of Weight:</u>	<u>CAS No.</u>
Zinc Glucoheptonate	< 50.0 %	12565-63-8

4. FIRST AID MEASURES

If in eyes:	Immediately rinse with water for 15 minutes. Call poison control or doctor for treatment advice.
If on skin:	Wash skin with soap and water, remove contaminated clothing. Call poison control or doctor for treatment advice
If swallowed:	Rinse mouth with water and drink large a quantity of water if able to swallow. Do not give water to an unconscious person. Call poison control or doctor for treatment advice
If inhaled:	Remove product or move person to fresh air. Call poison control or doctor for treatment advice

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method):	Aqueous solution, will not burn
FLAMMABLE LIMITS (LFL & UFL):	Not applicable
EXTINGUISHING MEDIA:	Use foam, CO ₂ , dry chemical, or water
HAZARDOUS COMBUSTION PRODUCTS:	Not applicable
SPECIAL FIRE FIGHTING PROCEDURES:	Remove container from fire area

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing vapors or mists. Stop leak, contain spill, and absorb with soil or natural absorbents. Sweep up waste and place in container for disposal. Wash down area. Uncontaminated spilled material may be reused.

7. HANDLING AND STORAGE

HANDLING:	Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required. Sealed containers may develop pressure, open with caution. Wash hands thoroughly after handling the product.
STORAGE:	Store in the original labeled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals. Avoid storage at temperatures of 110°F or higher. Corrosive to steel, aluminum, brass. Use with stainless steel or PVC fittings. Product may stain unfinished wood, painted surfaces, or concrete.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	Not normally required.
RESPIRATORY PROTECTION:	If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with appropriate cartridges.
PERSONAL PROTECTIVE EQUIPMENT:	Chemical goggles or shielded safety glasses and rubber or neoprene gloves are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Brown Clear Liquid
SOLUBILITY: Soluble liquid
pH: 4.0
SPECIFIC GRAVITY (Water = 1): 1.25
VAPOR PRESSURE: Not established
PERCENT VOLATILE (by volume): Not established

BULK DENSITY: 10.4 lbs / gallon
BOILING POINT: Not established
EVAPORATION RATE: Not established

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 for at least 2 years under normal conditions.
INCOMPATIBILITY: Strong bases, oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀(rat): Not established
Acute Dermal LD₅₀(rabbit): Not established
Eye Irritation (rabbit): Not established
Inhalation LC₅₀(rat): Not established

Skin Irritation (rabbit): Not established
Skin Sensitization (guinea pig): Not established

12. ECOLOGICAL INFORMATION

Ecotoxicology: No negative impact on wildlife is expected.
Biodegradation: Oxidation and microorganisms.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Contaminated absorbents and surplus products should be buried in accordance with any local legislation.
Container disposal: Wash thoroughly with water and soap prior to reusing.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.
U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI;
LIQUID (NMFC 68140, SUB 6)

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	1 Health	0 Least	2 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	B PPE
		4 Severe	

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

TSCA (Toxic Substance Control Act): Mixture not listed or excluded from listing

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

RCRA Waste Code: Not listed

16. OTHER

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