



Technical Data Sheet

1. Product Identification

- Trade Name: ZINC AMINO SUSP.
- Manufacturer: SHANXI IHUMATE BIOTECH CO.,LTD
- Address: No. 64 Nan Gou, Chen Village, Bailong Town, Huozhou, Linfen City, Shanxi Province,China.
- Tel. No.: +86- 18874230390

2. Typical Composition & Specifications

<u>Component</u>	<u>Specification</u>
Zinc (ZnO)	>700 g/L
Free Amino Acids (total)	>20 g/L
pH (undiluted)	5.0-7.0 (mild acid-base, crop-safe)

3. Physical & Chemical Properties

- Appearance: Milk white homogeneous suspension liquid
- Odor: Slight characteristic amino acid odor, no pungent smell
- Density: ~1.6-1.8 g/cm³ (25°C)
- Viscosity: Moderate, good fluidity, easy to dilute and spray
- Compatibility: Compatible with most neutral/weak acidic pesticides, foliar fertilizers (avoid mixing with strong alkali, high-concentration phosphate fertilizers)
- Stability: Resistant to low temperature (≥0°C) and normal temperature storage, avoid strong sunlight insolation

4. Product Core Advantages

- High zinc content: 700g/L high-concentration chelated zinc, quick-acting and long-acting, fast correction of zinc deficiency symptoms (leaf chlorosis, small leaves, growth retardation)
- Amino acid chelation: Amino acids chelate zinc ions, prevent fixation by soil/other nutrients, improve zinc absorption and utilization rate by crops
- Stable suspension: No stratification, no precipitation, no blockage of nozzles/drip irrigation pipes, easy to use for large-scale mechanical application
- Mild pH: No damage to crop leaves, young buds and roots, safe for application in all growth stages
- Synergistic effect: Amino acids supplement organic nutrition while supplementing zinc, promote crop growth and enhance stress resistance (drought, low temperature)

5. Application & Usage Methods

- **Applicable Growth Stages**
- Seedling stage, tillering stage, branching stage, flowering fruit setting stage, young fruit stage (apply at the early stage of zinc

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deficiency for best effect)

● **Dilution Ratio & Dosage**

<u>Application Method</u>	<u>Dilution Ratio</u>	<u>Recommended Dosage per Hectare</u>	<u>Application Frequency</u>
Foliar Spray	1:1000–1:2000	300–500 mL	2–3 times, interval 7–10 days
Drip Irrigation / Fertigation	1:2000–1:3000	500–800 mL	1–2 times per growth cycle
Root Irrigation (seedling stage)	1:3000–1:4000	200–300 mL per 1000 seedlings	1 time

● **Key Usage Notes**

- Shake well before use to ensure uniform concentration
- Dilute with clean water in sequence (add fertilizer first, then water, stir evenly)
- Avoid spraying in high temperature ($\geq 35^{\circ}\text{C}$) at noon, choose morning or evening with calm wind
- Do not mix with strong alkali pesticides/fertilizers, avoid mixing with phosphate fertilizers to prevent zinc phosphate precipitation

6. Packaging, Storage & Shelf Life

- Packaging Specification: 1L / 5L plastic bottle (with anti-leak cap), 25L / 200L plastic drum (special for agricultural chemicals)
- Storage Requirements: Store in a cool, dry, well-ventilated warehouse; avoid direct sunlight, high temperature, freezing and heavy pressure; separate from food, seeds and pesticides
- Shelf Life: 24 months under the above storage conditions (unopened)
- Transport: Non-hazardous agricultural fertilizer, comply with normal liquid cargo transport regulations; avoid violent collision and overturning during transport

7. Safety & Handling

- Non-toxic, non-corrosive, non-flammable, no harmful gas release
- Avoid direct contact with eyes and skin; if contact occurs, rinse with plenty of clean water immediately
- Keep out of reach of children and pets; do not drink or eat
- For agricultural use only, not for other purposes
- Dispose of empty packaging properly, do not discard at will (recycle or treat in accordance with local environmental regulations)

8. Quality Control & Compliance

- Meet the national/industrial standards for water-soluble foliar fertilizers and trace element fertilizers
- Heavy metal content complies with agricultural fertilizer safety requirements (Pb ≤ 5 mg/L, Cd ≤ 0.5 mg/L, As ≤ 2 mg/L, Hg ≤ 0.1 mg/L)
- No added harmful additives, no hormone, environmentally friendly and safe for crop growth and agricultural products

9. Disclaimer

This TDS is for reference only. Actual effect depends on soil type, crop type, climate, and application method. Field testing is recommended before large-scale use.

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