



Material Safety Data Sheet

1. Product Identification

- Trade Name: PROTEINIC (MICROBIAL)
- 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. Hazards Identification

- Classification: Not classified as a hazardous substance or mixture according to GHS/UN regulations.
- Potential Health Effects:
 - Inhalation: May cause mild respiratory irritation if dust is inhaled in large quantities.
 - Skin Contact: May cause slight dryness or irritation; non-corrosive.
 - Eye Contact: May cause mild irritation, redness, or discomfort.
 - Ingestion: Low toxicity; may cause mild gastrointestinal discomfort if large amounts are swallowed.
 - Environmental Hazards: Non-toxic to aquatic life under normal agricultural use. Not a hazardous waste.

3. Composition / Information on Ingredients

<u>Component</u>	<u>Typical Content</u>
Bacillus spp. (viable spores)	>5×10 ⁹ CFU/g
Silicon + Magnesium + Calcium (Si+Mg+Ca)	>6.0%
Protein	>25.0%
Organic Carbon	>45.0%
pH (1% aqueous solution)	5.0 – 6.0
Moisture, max	≤10.0%
Water-insoluble matter, max	≤5.0%
Heavy metals (Pb+As+Cd+Hg), max	≤20 mg/kg

Hazardous Ingredients: None.

4. First-Aid Measures

- Inhalation: Remove to fresh air. If breathing is difficult, seek medical attention.
- Skin Contact: Wash skin thoroughly with soap and plenty of water. Remove contaminated clothing.
- Eye Contact: Rinse cautiously with water for 15–20 minutes. Remove contact lenses if present. Seek medical advice if irritation persists.
- Ingestion: Do NOT induce vomiting. Rinse mouth with water. Drink plenty of water. Seek medical attention if discomfort occurs.

5. Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO₂).

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- Unsuitable Media: None.
- Fire Hazards: Not flammable. May decompose under extreme heat, releasing organic fumes.
- Special Fire-Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and full protective clothing.
- Hazardous Combustion Products: Carbon oxides, water vapor, trace organic fumes.

6. Accidental Release Measures

- Personal Precautions: Avoid dust generation. Wear gloves, dust mask, and goggles.
- Environmental Precautions: Prevent entry into drains, waterways, or soil outside application areas.
- Methods for Cleanup: Sweep or vacuum spilled material. Collect in sealed containers for reuse or proper disposal. Do not discharge into the environment.

7. Handling and Storage

- Avoid generating dust. Use in well-ventilated areas.
- Wash hands after handling.
- Do not eat, drink, or smoke during use.
- Avoid contact with strong acids, strong oxidizers, or corrosive chemicals.
- Store in a cool, dry, well-ventilated area.
- Keep containers tightly closed to prevent moisture absorption and caking.
- Protect from direct sunlight, high temperature, and humidity.
- Keep away from incompatible materials (strong acids, strong oxidizers, corrosive chemicals).
- Storage temperature: 0°C – 35°C.
- Keep out of reach of children and unauthorized personnel.

8. Exposure Controls / Personal Protection

- Engineering Controls: Use local exhaust ventilation if dust is generated.
- Personal Protective Equipment (PPE):
- Respiratory Protection: Dust mask or respirator if high dust exposure.
- Hand Protection: Chemical-resistant gloves (nitrile or latex).
- Eye Protection: Safety goggles.
- Skin/Body Protection: Long sleeves, protective clothing.

9. Physical and Chemical Properties

- Appearance: Dark brown to black granular, free-flowing
- Odor: Slight earthy/organic odor
- Form: Granular solid
- pH (1% aqueous solution): 5.0 – 6.0
- Melting Point: Not applicable (decomposes)
- Boiling Point: Not applicable
- Flash Point: Not flammable

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- Flammability: Non-flammable
- Solubility in Water: Partially soluble (organic & mineral fractions)
- Density (bulk): Approx. 0.7 – 0.9 g/cm³
- Vapor Pressure: Negligible

10. Stability and Reactivity

- Stability: Stable under normal storage and handling conditions.
- Conditions to Avoid: High heat, open flame, strong acids, strong oxidizers, excessive moisture.
- Incompatible Materials: Strong acids, strong alkalis, strong oxidizing agents, corrosive chemicals.
- Hazardous Decomposition Products: None under normal use. May release CO₂, water vapor, and organic fumes at extreme temperatures.

11. Toxicological Information

- Acute Toxicity: Low acute toxicity.
- Oral LD₅₀: >5000 mg/kg (non-toxic)
- Dermal LD₅₀: >2000 mg/kg
- Skin Irritation: Mild irritant (non-corrosive).
- Eye Irritation: Mild irritant.
- Sensitization: Not expected to be a skin or respiratory sensitizer.
- Mutagenicity: No mutagenic effects known.

12. Ecological Information

- Aquatic Toxicity: Low toxicity to fish, algae, and aquatic organisms under normal agricultural use.
- Mobility: Partially mobile in soil; binds to organic and mineral particles.
- Persistence: Biodegradable; microorganisms and organic fractions degrade naturally in soil.
- Bioaccumulation: No bioaccumulation potential.
- Environmental Impact: Safe for soil, plants, and beneficial organisms when used as directed.

13. Disposal Considerations

- Dispose of unused product according to local, regional, and national regulations.
- Can be used as fertilizer or soil amendment; do not discard into waterways.
- Empty containers: Rinse and recycle if possible, or dispose as non-hazardous waste.
- Do NOT discharge into drains, sewers, or natural water bodies.

14. Transport Information

- UN Number: Not regulated for transport (UN3077, if applicable for environmentally hazardous substances – usually not required for this product).
- Proper Shipping Name: Not dangerous goods.
- Transport Class: Not classified.
- Packing Group: Not applicable.

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SHANXI IHUMATE BIOTECH CO.,LTD
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- Special Precautions: Keep dry during transport. Protect from moisture, rain, and direct sunlight.

15. Regulatory Information

- This product complies with general agricultural chemical regulations. Not classified as a hazardous substance under GHS, OSHA, EPA, or international transport regulations.
- Use in accordance with local agricultural and environmental laws.

16. Other Information

The information contained in this Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is not intended as a guide for the safe use, handling, disposal, storage and transportation and is not a warranty or as a specification. This information relates only to the product specified and may not be suitable for combinations with other materials or in the process other than those specifically described herein.

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