

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Humic Acid, Sodium Salt
- English Name: Humic Acid, Sodium Salt
- CAS Number: 68131-04-4
- Formula: $C_9 H_9 NaO_6$ (Average empirical formula)
- Molecular Weight: Variable (5-50 kDa)
- Product Characteristics: Natural organic product derived from leonardite/peat, high humic acid content. Excellent chelating, flocculating, and soil-improving properties. Non-toxic, biodegradable, suitable for agriculture, water treatment, and industrial applications.

2. Technical Specifications

Item	Specification
Appearance	Black to brown powder/granular
Humic Acid Content (as Na salt)	≥ 80.0%
Moisture Content	≤ 10.0%
pH Value (1% solution, 25°C)	8.0-10.0
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 2 ppm
Iron (Fe)	≤ 0.5%
Insoluble Matter in Water	≤ 5.0%
Salt Content (NaCl)	≤ 8.0%
Solubility (20°C)	≥ 80 g/L (water)

3. Product Advantages

- Natural origin: Derived from organic sources, environmentally friendly.
- Multi-functional: Chelates heavy metals, improves soil structure, flocculates impurities.
- Cost-effective: Low dosage provides significant results.
- Non-toxic: Safe for plants, animals, and humans.
- Biodegradable: No environmental accumulation.

4. Application Fields

- Agriculture: Soil conditioner (improves fertility, water retention), fertilizer additive (enhances nutrient uptake).
- Water Treatment: Heavy metal chelator, flocculant for wastewater clarification.
- Animal Feed: Additive to improve digestion and immune function.
- Industrial: Drilling fluid additive (viscosifier, shale stabilizer), concrete admixture.

5. Usage Methods

- Agriculture: Soil application: 50-200 kg/ha; Fertilizer blend: 1-5% (mass ratio).
- Water Treatment: Dosage 50-500 ppm; dissolve in water before adding.



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- Animal Feed: Add 0.1-0.5% to feed formulations.
- Optimal Conditions: Apply at 15-35°C; avoid strong acids.

6. Packaging & Storage

- Packaging: 10 kg/bag (plastic-lined kraft bag), 25 kg/drum (HDPE), 1000 kg/IBC totes.
- Storage: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed.
- Shelf Life: 24 months (unopened).
- Transportation: Non-dangerous goods; avoid moisture, collision.

7. Safety & Protection

- Wear protective gloves and safety goggles during handling.
- Avoid dust inhalation and eye contact; rinse immediately if contact occurs.
- Agricultural use: Comply with recommended application rates.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Each batch accompanied by COA.
- Provide technical support for application and dosage adjustment.



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