

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Plant Extract Deodorant
- English Name: Plant Extract Deodorant
- CAS Number: N/A
- Formula: Blend of Natural Plant Extracts (Tea Polyphenols, Peppermint Extract, Bamboo Extract, etc.)
- Molecular Weight: Variable (1000-50000 Da)
- Product Characteristics: High-efficiency natural deodorant derived from plant extracts. It neutralizes odor-causing substances (ammonia, hydrogen sulfide, volatile organic compounds) through adsorption and chemical reaction. Non-toxic, non-irritating, fully biodegradable, and environmentally friendly. Retains natural plant fragrance, no secondary pollution. Stable under normal storage and use conditions, suitable for various odor control scenarios.

2. Technical Specifications (Complies with Industrial Standards)

Item	Specification
Appearance	Light green to pale yellow transparent liquid
Total Plant Extract Content	≥ 15.0%
pH Value (25°C)	5.5-7.5
Deodorization Efficiency (Ammonia, 2h)	≥ 90%
Deodorization Efficiency (Hydrogen Sulfide, 2h)	≥ 85%
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 1 ppm
Total Bacterial Count	≤ 100 CFU/mL
E. coli	Negative
Ethanol Content	≤ 5.0%
Viscosity (25°C)	30-100 mPa·s
Density (25°C)	1.01-1.06 g/cm ³
Temperature Stability	Stable at 0-40°C (deodorization efficiency retention ≥ 90%)
pH Stability	Stable at pH 5.0-8.0 (deodorization efficiency retention ≥ 90%)
Fragrance	Mild natural plant scent (customizable: peppermint/tea/green bamboo)

3. Product Advantages

- Natural & Safe:** 100% plant-derived, non-toxic, non-irritating, safe for humans, animals, and the environment.
- Efficient Deodorization:** Neutralizes odor-causing substances instead of masking, deodorization rate over 85-95% for common odors.
- Long-Lasting Effect:** Odor control duration 8-24 hours (depending on application scenario), reducing reapplication frequency.
- Environmentally Friendly:** Fully biodegradable, no eutrophication risk, meets global environmental protection standards.
- Versatile Applications:** Suitable for indoor, industrial, and daily use scenarios; compatible with spray, atomization, and mixing equipment.

4. Application Fields

- Indoor Air Deodorization:** Homes, offices, hotels, hospitals, schools, public toilets, and vehicles.



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- **Wastewater & Waste Treatment:** Municipal sewage plants, garbage transfer stations, landfill odor control.
- **Pet Odor Elimination:** Pet cages, litter boxes, pet grooming salons.
- **Industrial Odor Treatment:** Low-concentration odor from food processing, textile printing, and breeding industries.
- **Other Fields:** Shoe cabinet deodorization, sports equipment odor control, public transportation odor elimination.

5. Usage Methods

- **Dosage** (Adjust according to odor intensity and scenario):
 - Indoor Air: 5-10 mL/m³ (spray or atomization)
 - Wastewater: 50-200 ppm (dilute 1:100 and add to wastewater)
 - Pet Odor: 10-20 mL/m² (spray directly on odor source)
- **Addition Method:** Use spray bottles, atomizers, or metering pumps for application. Dilute with water (1:50-1:100 ratio) for large-scale use; stir evenly.
- **Optimal Conditions:** Apply at 15-35°C, avoid direct sunlight; reapply when odor reappears.

6. Packaging & Storage

- **Packaging Specifications:**
 - 500 mL HDPE plastic bottles (household use)
 - 25 kg HDPE plastic drums (industrial use)
 - 200 kg HDPE plastic drums (bulk use)
 - 1000 kg IBC totes (large-scale projects)
 - Custom packaging available upon request.
- **Storage Conditions:**
 - Store in a cool, dark, well-ventilated warehouse. Avoid direct sunlight and high temperatures ($\leq 30^{\circ}\text{C}$).
 - Keep containers tightly closed to prevent contamination and loss of active ingredients.
 - Store separately from strong acids, strong bases, and oxidizing agents; avoid mixing.
- **Shelf Life:** 12 months (unopened, under specified storage conditions).
- **Transportation:**
 - Non-hazardous goods; transport by ordinary vehicles.
 - Avoid collision, leakage, direct sunlight, and high temperature during transport.

7. Safety & Protection

- The product is non-toxic and non-hazardous. Avoid direct contact with eyes for sensitive individuals.
- Wear safety glasses and nitrile rubber gloves during large-scale handling or prolonged contact.
- In case of eye contact, rinse with plenty of water for 5-10 minutes; consult a doctor if irritation persists.
- Do not ingest; if accidentally swallowed, rinse mouth with water and consult a doctor if discomfort occurs.

8. Quality Assurance

- The product is manufactured in accordance with ISO 9001 and ISO 14001 quality and environmental management system standards.
- Each batch of product is tested and accompanied by a Certificate of Analysis (COA) to ensure compliance with industrial standards.
- We provide technical support for product application, including dosage adjustment, application equipment selection, and odor control scheme design.