



# BIO ENERGIZER®

Enhancing Nature's Science

## Product Characteristics

**Derived From:**

Ammonium Nitrate, Urea

**Physical Properties:**

Form: Liquid

Appearance: Clear to hazy brownish purple, having a slight characteristic odor.

Weight: 10.43 lb/gal, 1.20 kg/L

pH: 5.0–6.0

Freezing Point: 32°F

**Additional Contents:**

Micro Carbon Technology®

**Caution:**

**Keep out of reach of children.**

**Harmful if swallowed.**

**Storage and Disposal:**

Keep product in original container. Do not transfer into food or drink containers. Triple rinse when empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations.

**Conditions of Sale:**

The information contained in this bulletin is believed to be accurate and reliable. Buyer and user acknowledge and assume all liability resulting from the use of this material. Follow directions carefully. Timing, method of application, weather, water conditions, and other factors are beyond the control of the seller.

## The Solution for Wastewater Sludge, Grease & Odor Reduction

PROBIOTIC SOLUTIONS® BIO ENERGIZER® is a formulation of complexing agents, organic acids, natural biological stimulants, buffers, nutrients, and energy systems that balance the natural microbial ecosystem to increase bio-oxidation capacity. It reduces sludge build-up and handling costs by lowering BOD/COD and reducing FOG, as well as solving odor concerns. BIO ENERGIZER® reduces odor and grease problems in sewer lines and lift stations.

**Benefits of Use:**

- Reduces noxious odors
- Liquifies fats and greases
- Drying beds dry faster
- Reduces sludge buildup in lagoons
- Increases dissolved oxygen levels
- Decreases mechanical aeration and energy costs
- Speeds organic matter composting while improving quality
- Lowers sludge dewatering and hauling costs
- Reduces Nocardia foaming
- Improves flocculation and settleability
- Minimizes upsets
- An economical alternative to mechanical sludge removal eliminating handling costs and out-of-service time

**Application Instructions:**

SHAKE WELL BEFORE USING. Contents are highly concentrated and can be applied directly into the flow or should be diluted with water in a ratio of 10 parts water to 1 part product prior to surface application. See table below for application instructions. Contact your local Probiotic Solutions® representative for specific usage recommendations.

METHOD OF APPLICATION	SUGGESTED RATE
Wastewater Treatment Lagoon	Up to 10 ppm injected directly into the influent for the initial phase (typically 30–180 days) to activate lagoon. Thereafter, add up to 5 ppm per day into the influent.
Septic Tank Pumpings or Grease Trap Water	Up to 20 ppm (e.g., 2.5 ounces per 1,000 gallons).
Landfill Leachate Tanks/Basins	Up to 100 ppm (e.g., 12 ounces per 1,000 gallons).
Aeration Basins / Digesters	Up to 7 ppm into the water flow during the initial phase. Up to 3 ppm into the water flow for maintenance.
Sludge Drying Beds	Immediately after wasting sludge to drying beds, spray surface of drying beds with uniform application for odor reduction. Up to 1 quart per ton of material every 15 days.
Odorous Compost / Organic Matter / Garbage Trucks	Spray up to 1 quart per ton (2,000 lb) of material on compost / organic matter or tank walls every 15 days for rapid odor reduction.

**Conversion Guide:** 1 ppm = 1 gallon of product per million gallons of wastewater per day



*\*This Product Contains Micro Carbon Technology®, a proprietary blend of very small organic molecules that allows for more effective absorption of nutrients by microorganisms.*