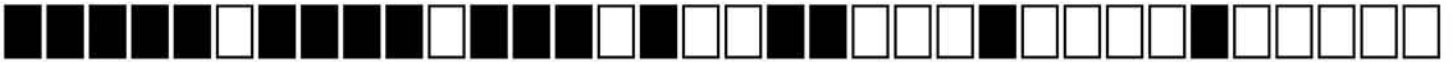


BIO ENERGIZER™



THE SOLUTION FOR WASTEWATER SLUDGE, GREASE & ODOR REDUCTION

WHAT BIO ENERGIZER IS...

It is a scientific formulation of organic acids, buffers, natural biological systems, nutrients and energy systems which balance the natural microbial ecosystem to increase bio-oxidation of wastewater which reduces solids & odors.

WHAT BIO ENERGIZER DOES...

It reduces grease problems in sewer lines and lift stations. It increases the bio-oxidation of wastewater creating a "wet burn" which reduces sludge and odor levels in wastewater treatment plants and lagoons.

INDUSTRIAL & MUNICIPAL WASTEWATER TREATMENT

AT HEADWORKS OF WASTEWATER TREATMENT PLANT, BIO ENERGIZER:

- improves aeration, reducing mechanical aeration costs.
- reduces sludge volume and odor.
- improves treatment efficiency.

DIRECTIONS: For Industrial applications with high BOD, COD or TOC concentrations add 7 ppm for the first 21 days and then drop to 3 ppm thereafter. Application location can be as far up-line of treatment site as possible for more effective treatment. Use chemical injector pump. The product may be diluted with water to achieve pump setting.

For Municipal application with moderate loadings apply at 4 ppm for the first 21 days then drop to 2 1/2 ppm.

For Digesters or sludge holding tank make an initial application of 7 ppm. Every time new influent is added to the digester or sludge holding tank add an equal amount of BIO ENERGIZER at a rate of 7 ppm. amount

IN WASTEWATER TREATMENT LAGOONS, BIO ENERGIZER:

- balances microbiology in wastewater to enhance bio-oxidation of sludge.
- reduces sludge build-up by converting solids to carbon dioxide through bio-oxidation.
- increases dissolved oxygen levels allowing reduction in mechanical aeration which reduces power costs.
- is an economical alternative to mechanical removal of lagoon sludge at a fraction of the cost.
- reduces offensive odors.

DIRECTIONS: In sludge lagoons or lagoons with over two feet of sludge, add 1 ounce of BIO ENERGIZER for every 1000 gallons of sludge for an initial application. This initial quantity of BIO ENERGIZER also represents the monthly application NOT including the amount of BIO ENERGIZER add to compensate for new daily or weekly solids loading. Dividing by four and then by seven will give the daily dosage to reduce existing sludge. To this daily dosage add 2ppm dosage for new domestic influent or 1 oz per 1000 gallons of waste sludge or heavy industrial influent added to the lagoons. If short-circuiting is a problem, apply to the surface of the lagoon to hit the dead zones not receiving much circulation. If short-circuit is not a problem add to the system using a chemical feed pump for continuous 24 hour application. Some industrial and municipal applications require more complex diagnosis before developing probiotic product recommendations. Contact a BIO ENERGIZER representative for specific directions. Some industrial and municipal applications require more complex diagnosis before developing probiotic product recommendations.

IN SEPTIC TANK TREATMENT, BIO ENERGIZER :

- breaks down fats and greases in wastewater.
- breaks down septic tank solids, reducing need for pumping.
- breaks down sludge and grease in the leach lines.
- opens up soil around leach lines for proper drainage

DIRECTIONS FOR USE OF 12-OUNCE BOTTLE:

- Pump out septic tank if present system is now overloaded.
- Select the busiest bathroom in the building for most effective treatment.
- Remove toilet tank cover. Position bottle away from moving parts. Slide bottle clip forward. Hold bottle upright over tank. Remove cap. Turn bottle upside down. Attach bottle clip to edge of tank with bottle inside. Replace toilet tank cover.

The bottle works automatically by dispensing a small amount of product with each flush which treats the septic tank with the probiotic product. NOTE: When light blue color does not appear in the toilet bowl replace with new bottle. CAUTION: Be careful not to spill product as the coloring will stain.

ANIMAL WASTEWATER TREATMENT

IN DAIRY, HOG & BEEF OPERATIONS, BIO ENERGIZER:*

- reduces manure sludge buildup.
- reduces odor in manure pits and lagoons.
- liquefies solids allowing complete pump-out of manure pits & lagoons.
- improves composting of manure increasing nutrient availability to crops with reduced nitrate leaching into ground water.
- is non-toxic and safe to apply on and around animals.

DAIRY DIRECTIONS: To activate manure waste lagoon add one gallon per 100 cows over surface of lagoon. Then add 1/2 gallon per 100 cows per week if manure sludge in lagoon is over 5 feet deep or in a free stall operation. If manure sludge is less than 5 feet deep, application can be reduced to one quart per 100 cows per week in a non-free stall facility.

HOG or BEEF DIRECTIONS: To activate manure pit or lagoon, apply one gallon of BIO ENERGIZER per million gallons of waste liquid over surface of pit or lagoon. Then apply one gallon per million gallons of waste per week.

*NOTE: BIO ENERGIZER will increase digestive gasses from manure. Make sure that proper ventilation is provided to avoid excessive gas build-up in the first 30 days of application.

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 all directions carefully.



**Probiotic
SOLUTIONS™**

Produced by

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