

The header image shows a green field with a small structure in the distance under a blue sky with white clouds. The text 'TerraMax' is in the top left, and 'MicroPT™ Pit and Lagoon Treatment' is in the top right.

TerraMax

# MicroPT™ Pit and Lagoon Treatment

## *fact sheet*

### Benefits

- Establishes the desired strains in the pits or lagoons
- Encourages the establishment of an environment to maintain these strains
- Liquefies the solid waste for ease in pumping
- Reduces the total nitrogen content of the waste
- Lowers the ammonia content of the waste
- Reduces the levels of odor causing compounds
- Reduces crusting on pit
- Use 2 gallons per 200,000-gallon pit volume

MicroPT™ is a special nutrient blend that provides superior biostimulation mixed with several strains of microorganisms. MicroPT™ contains beneficial bacteria that aid in the digestion and liquefaction of animal waste solids. This also stimulates the environment for better aerobic activity. This product has been successfully tested and is in use in bioreactors and pits for hog waste. The microorganisms in MicroPT™ are naturally occurring and will not harm the environment.

The bacteria and other microorganisms have the ability to reduce the total nitrogen and ammonia content of the waste. An important benefit of the liquefaction of the waste is the reduction in odor causing compounds. When the waste is liquefied and the nutrient levels are adjusted, the waste can be spread on fields with ease.



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MicroPT™

## *instruction sheet*

### **Some points to remember when using MicroPT™.**

- Empty pit before beginning application
- After diluting the MicroPT™ with water disperse the mixture as thoroughly as possible into the pit
- For conventional waterers and feeders split apply even amounts at three month intervals
- For wet/dry feeders split apply even amounts at two month intervals
- Pits that have solids build up will take time to digest the solids and bring the pit back to optimum function
- Excessive solids build up may result in crusting as the microbial digestion process gets underway
- Pits with excessive solids build up may need to be “jump started” with a larger dose of MicroPT™

MicroPT™ is packaged in 2.5-gallon containers that contain 2 gallons of actual product. There are 2 of these containers per box, giving a total of 4 gallons of MicroPT™ per box. The application rate for MicroPT™ is 1 gallon per 100,000 gallons of waste volume to be treated.

To calculate pit volume multiply the pit length X pit width X pit depth X 7.47. This will give the total gallons of waste in the pit. For example: a pit is 100 feet long, 40 feet wide and 12 feet deep. The calculation is  $100 \times 40 \times 12 = 48,000$  cubic feet. Multiply this by the factor 7.47 to get the gallons of waste = 358,560 gallons of waste.

This pit would require a minimum of 3.5 gallons of MicroPT™. This should be split into several even applications through the period of time before the next pump out.

For the pit example above (approximately 360,000 gallons of waste) using conventional waterers and feeders that will pump out once a year apply 1 gallon (for easier measuring) of MicroPT™ after pump out. Then apply this same amount at three-month intervals. For example if the pit was pumped on October 1st apply 1 gallon of MicroPT™ to the empty pit. On January 1 add the next batch of MicroPT™ Repeat in April and July.

MicroPT™ should be mixed as best as possible in the pit or lagoon. This can be accomplished by mixing the desired amount of MicroPT™ in a five gallon pail adding water and pouring the mixture at several spots into the pit or lagoon.

#### **TerraMax, Inc.**

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**Maximizing Earth's Potential**