

# MANURE MANAGEMENT MADE EASY



penergetic<sup>®</sup> g

## Slurry Activator

2.5¢ a day per cow

- Prevent crusting and bottom sludge
- Curtail noxious odors
- Make slurry homogenous
- Prevent nutrient loss

penergetic<sup>®</sup> k

## Compost Treatment

- Compost manure solids
- Accelerated aerobic process
- Reduce odors and insects
- Cost effective & nutrient rich



# A Sustainable Approach to Manure Management

Dairy farmers are some of the most important environmental stewards in protecting the country's land and water resources. They accept responsibility for managing their dairy wastes in a manner which increases agronomic benefits while aiming to reduce the risk of over-application, runoff and leaching. Yet, since nutrient management is usually viewed as a "cost" which impacts on profitability, the approach taken to waste management needs to be both cost effective and have beneficial results.

Swiss-based PENERGETIC International AG developed a proprietary approach to livestock waste management, over 20 years ago, that is economical, easy to use, requires no capital expenditures and has proven itself effective in dairy operations around the world.

- ◆ Mitigate blocked effluent channels
- ◆ Prevent a floating layer forming in pits/lagoons
- ◆ Address bottom sedimentation/sludge problems
- ◆ Produce homogenous, free flowing liquid manure
- ◆ Overcome the emission of unpleasant odors
- ◆ Control harmful insects and insect larvae
- ◆ Reduce/eliminate the need for agitation or aeration
- ◆ Retain nitrogen by ammonia becoming ammonium
- ◆ Curtail plant scorching during land application
- ◆ Protect ground and surface waters



## Who Should be Interested?

Whether you have under 100 cows or over 1,000, the penergetic approach can increase the efficiency of your manure handling system: liquids, slurry & solids. Used in small quantities, penergetic g, k or g(k) include no harsh chemicals, require no additional energy consumption, are environmentally-friendly (OMRI listed) and are intended to "save" not cost you money.

*[Note: "g" stands for "gülle" (German for slurry) and "k" is for "kompost" (German for compost).]*

## Penergetic g

By stimulating a more complete breakdown of the liquid manure by rotting (aerobic process), instead of the more common and less desirable putrefaction & decay (anaerobic process), penergetic g works to:

## Penergetic k

For manure solids -- generated in a loafing barn, calf pens, free stalls or resulting from the separation of solids from liquids -- treatment with penergetic k is recommended. Applied at a rate 1 oz. / cu. yd. (or ton), penergetic k can be applied on bedding, back of stalls or directly on the manure/compost pile.

By stimulating an aerobic process, pen k activates a thorough breakdown of manure, limits nutrient loss, mitigates odors and creates a more homogeneously consistent compost mix - all at an accelerated pace.



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