

# MANURE MANAGEMENT FOR POULTRY



penergetic<sup>®</sup> k

## Litter Conditioner

- Reduces ammonia and insects
- Provides biological sanitation
- Controls disease organisms
- Decomposes fecal matter



penergetic<sup>®</sup> g

## Liquid Manure Activator

See details on reverse side.....



# A Sustainable Approach to Manure Management

Manure management is an important component for any poultry operation. Whether it be turkey, egg or broiler production, birds in Canada are normally raised indoors, with a variety of housing and manure handling options being utilized. Broilers, broiler breeders and turkeys are typically raised on solid litter (wood shaving, sawdust or straw). Some layers and pullets are also raised on litter, yet more commonly cage housing is used -- resulting in pit collection and storage of manure. 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. Whether your operation produces soiled litter, dry, semi-solid or wet manure, PENERGETIC Canada has a manure management approach that is certain to satisfy your requirements.

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

## Who Should be Interested?

No matter what size your operation is, the penergetic approach can increase the efficiency of your manure handling system: liquids, solids and litter. Used in small quantities, penergetic k and g contain no harsh chemicals, require no additional energy consumption, are environmentally friendly (OMRI listed) and are intended to “save” not cost you money.

## PENERGETIC k - for litter conditioning

Applied to the litter as a dry powder (at a rate of 4 g per m<sup>2</sup>) or mixed with water and sprayed in the barn, penergetic k reduces ammonia emissions, improves barn environment, helps control disease pathogens, acts to mitigate flies and insects and starts to aerobically breakdown the litter.



## PENERGETIC k - for solid manure

Dry manure (<25% liquid) is also treated with penergetic k (at rate 40 g per m<sup>3</sup>). By stimulating an aerobic process, it activates a thorough breakdown of the manure, limits nutrient loss, mitigates odours and creates a more homogeneously consistent compost mix - all at an accelerated pace.

## PENERGETIC g - for composting

Once litter and solid manure is removed from the barn it can be further composted in a pile or in windrows with penergetic k, which acts to accelerate the process.



## PENERGETIC g - for slurry & liquid manure

By activating a more complete decomposition of slurry or liquid manure by an aerobic process, instead of the more common and less desirable anaerobic process (which involves putrefaction & decay), penergetic g works to:

- ◆ Prevent floating layer and bottom sedimentation
- ◆ Produce homogenous & free flowing slurry
- ◆ Overcome emission of unpleasant odours
- ◆ Control harmful insects and insect larvae
- ◆ Limit the need for agitation or aeration
- ◆ Reduce the loss of ammonium nitrate
- ◆ Curtail plant scorching during land application
- ◆ Protect ground and surface waters

For more information contact:

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