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Z-LINE
Zootechinics

Treatment of wastewater and dejection for:

- Pig, cattle & sheep farming
- Fish farming
- Small animal, chicken & poultry farming

ADVANTAGES

Disposal with less odor and ammonia vapors resulting in a better metabolism, faster growth, overall health and resistance to illnesses of the farmed animals



NEPh
New Ecological Philosophy

Out of its Antibes Sophia Antipolis headquarters NEPh produces the best mixtures based on bacteria and enzymes for utilization in the following fields:

- Agriculture
- Ecology
- Zoo-technics

NEPh, with its products for farming and zoo-technics, offers a natural and economical alternative to treatment of dejections and odor removal.

Z-LINE
Zootechinics

The Concept

NEPH – New Ecological Philosophy – is a company that has studied and realized specific products to bring a natural solutions to problems related to AGRICULTURE, FOOD CONSERVATION, ZOOTECHNICS and ENVIRONMENT, with the goal to emphasize the usage of natural substances.

NEPH innovating technology allows mixing natural elements like enzymes, lipoproteic substances and herbal extracts with complementary activities, creating products that in an absolutely natural way:

- Allow to bio-balance farmland towards a production of bioquality products of superior taste, healthier texture and analytically richer in vital substances
- Enhance the humic and equilibrating activity of bacteria and of beneficial microorganisms present in humus
- Modify and improve the chemical, physical, biological and mechanical characteristics of the land
- Increase land fertility, biologically empowering the exploitation of the natural nutrients
- Speed up in a natural and non-toxic way the humification and deodorization processes dealing with organic substances.

All NEPH products are of biological nature, completely harmless and non-toxic, and allow obtaining results with land and agricultural products, which are healthier, qualitatively and quantitatively superior, and with better commercial value than conventionally produced ones.

NEPH is also active in the ZOOTECHNICS sector, where it is particularly present in all sorts of animal farming, targeting the polluting aspects of such activities (foul smells, pollution and seepage into the water table of the fluids and wastewaters associated to farming). With the specific and continuing applications of NEPH products all the negative aspects of animal farming can be reduced and even eliminated, creating a healthier environment with a better economical return.

Z-LINE For Animal Farming

The technical specifications of this product of the zootechnics line explain its components and their actions and biochemical combination and the list of some of the bacteria contained, expressly used for zootechnics (animal farming).

Are present: ASPERGILLUS ORYZAE
BACILLUS CEREUS
BACILLUS SUBTILIS STRAIN
BACILLUS THURINGENSIS

The Aspergillus Oryzae produces lipases, cellulases and amylases in addition to proteases, which are more active at low pH levels than other similar enzymes, amplifying the field of application of the enzyme itself. Very important are as well the ferments, without enzymes, that stimulate actions associated to the Aspergillus Oryzae.

Part of the Bacillus Subtilis are present for the lipases, proteases and amylases amplifying the whole system, accelerating the action of the Bacillus Cereus and Thuringensis, present for the production of the enzyme.

PURPOSE

These bacteria cultures are fully natural and do not have any form of genetic manipulations, have no pathogenic effects, do not contain salmonella and are fully harmless to men, animals and fishes.

They provoke and speed up the oxidizing reactions that degrade organic substances, and survive the degradation process, remaining active over time.

This Z-line product contains hydrolytic catalyzers like Amylases, which hydrolyze and digest humid substrates, transforming them in much simpler and more soluble sugars.

ANALYSIS

30.000 MWU/g Lipases
900 units/g Cellulases
1.200 units/g Amylases
10.000 units/g Proteases

Z-LINE Product Preparation

It is a mixture of bacteria, enzymes, co-enzymes, holo-mineral liquids, natural mending elements that are able to transform complex organic substances in simpler ones thanks to activation of humic agents and biocatalysts which have a positive effect on decomposing and transforming organic substances.

It eases and increases the humic activity promoting the balance between the creation of humus and its mineralization, therefore the product is a strong biodegradator which mends, balances and speeds up the biomass.

Method of use:

1. Dilute products 1 and 2 in 10 liters of tepid water (35 ° to 40 °C) and mix them strongly. Let the mixture rest for 1 hour.
2. Prepare a clean container filled with 400 to 600 liters of fresh water.
3. Pour the preparation 1 and 2 into the container and add the product 3 (starter), mixing everything.
4. Distribute uniformly the mixture onto the surface of the organic substance to be treated in layers, or use for washing floors, bedding and grids where animals leave their droppings, or pour into the inlet or directly into the fish farming tanks.

Effects:

Optimal biologic activity of the biomass - Balance of the pH - Destruction of foul smells - Control of toxicity of percolating liquids - Immediate use of stabilized fertilizer in agriculture - Control of colibacteria - Control of insects - Reduction of mass - Reduction of ammonia - Elimination of organic crusts

Quantity:

A pack of product is needed for 100 m³ of organic substance or for 1000 m² of surface (floor, grids)

When:

As needed, repeat the treatment when high concentrations of ammonia are present

Environmental impact:

The product has no negative effect on the environment given that it is of purely biological nature. The reaction of the product can be considered neutral.