

BioVital Powder System a revolutionary innovation

HOLLAND GREEN INTERNATIONAL

Sales and export of biological/natural products.

Waspik The Netherlands

Tel. 0031(0)416-316535

Fax 0031(0)416-316429

Gsm 0031(0)6 53779051

E-mail: hollandgreen@planet.nl.

Internet: www.hollandgreen.com

Productinformation

THE

BIOVITAL SYSTEM

BIOVITAL POWDER PRODUCTS

The best products for farming today and in the future.
ecologically- cheap- effective!

Vital for All

BIOVITAL POWDER

BIOVITAL POWDER is a highly effective substance. It is harmless, chemically neutral, neither sour nor corrosive. **BIOVITAL POWDER** in its basic substance consists of Calcium-Carbonate, that is chalk and from its chemical side it can't be distinguished from chalk-powder.

In its efficiency **BIOVITAL POWDER** differs basically from ordinary chalk-flour. Already a dilution of 1:100000 put in liquid manure effects a drastically reduction of ammonia smell in liquid manure. Nearly no ammonia is set free. Liquid manure doesn't stink anymore. People in the neighbourhood aren't troubled any longer by strong smell and the environment isn't burdened by poisonous ammonia-gas any more. Reduction up to 80-90% is possible.

Besides **BIOVITAL POWDER** increases the flow of liquid manure mostly without addition of water. Thick top layers of cattle manure dissolve completely, therefore stirring is nearly not necessary. Settled layers of pig manure rise and form a homogeneous liquid manure that can be pumped out.

An enrichment of oxygen in liquid manure stimulates the growth of the aerobe bacteria. Liquid manure with additive of **BIOVITAL POWDER** doesn't burn plants and does less harm to living creatures in the soil. The result is an increased humus formation.

BIOVITAL POWDER increases the worth of cattle-pig- and hen-manure, as well as manure of any kind with the help of active oxygen enrichment. It prevents the change from ammonium nitrogen, which is available for the plants, into ammoniac.

Usage in stables (pigsties etc.)

The best way is to use **BIOVITAL POWDER**, dissolved in water, „directly behind the animal“. With grated floors a mixture of 20g of **BIOVITAL POWDER** and 10 litre water is poured out with a watering can. Mind that with each animal 1-3 g of **BIOVITAL POWDER** is used. With large stables (pigsties etc.) use for the mixture of 1 kg of **BIOVITAL POWDER** at least 500 litre of oxygen-rich water. A mixture with water is the basic requirement for the development of its full effect. Scattering of **BIOVITAL POWDER** or rinsing with water reduces the success. This treatment should be repeated every week up to a seven-day period.

If straw is used with the animals use **BIOVITAL POWDER** in the same way. In the manure gutter the mixture will be brought out either by watering can or by spray technique once a week. The rot process of manure improves a lot and the formation of ammonia-gas and putrefactive-gas reduces.

BioVital Powder System a revolutionary innovation

Usage in cesspools:

With cesspools inject 1-2 kg of BIOVITALL POWDER/100 cubic meter; liquid manure under the surface to different spots as deep as possible. Again mind that the powder dissolves well in the oxygen-rich water - use at least 500 litre for 1 kg of BIOVITALL POWDER. The treatment has to be done 2-3 weeks before you intend to spray the liquid manure on the fields. The thick top layers dissolve and the liquid manure doesn't stink anymore.

Usage of cowsheds (stable, etc.)

Dairy cattle boxes

In a cattle or bull stable with a grated floor design with driveway, it is important to apply less BIOVITALL POWDER towards the transverse drain. Otherwise there is a danger that the mass up front dissolves too fast. That again, would cause the liquid manure in the back to flow off too fast, and then, the stoppage effect is lost. The effect of BIOVITALL POWDER automatically activates from back to front and over the crossways to the reservoir.

In a pigs sty, the BIOVITALL POWDER is spread with a watering can, or, in big stables, with a spray technique over the entire grated floor. There is no danger of draining too fast in the crossways. If there is a stoppage, the whole area would need to be sprayed over again, and the problems areas a little more so.

With regular use, a continued decaying process is guaranteed.

BioVital Powder System a revolutionary innovation

BIOVITAL POWDER PRODUCTS

The best products for farming today and in the future.
ecologically - cheap - effective!

The following BIOVITAL PRODUCTS are available:

1. BIOVITAL POWDER for (liquid) manure

- makes manure liquid and homogenous
- dissolves settled and thick top layers
- saves energy, as liquid manure most of the time does not have to be stirred.
- saves water, as liquid waste drains need not to be rinsed
- fertilises fields equally
- reduces fly plague
- nearly no ammoniac, instead ammonium nitrogen available for the plants
- reduces much the strong smell
- reduces much poisoning ammoniac gas in stables (cowsheds etc.)
- reduces the ozone killer methane and nitrous oxide
- saves health of man and animal
- health your animals are gaining weight faster
- reduces much strong smell for the surrounding
- makes liquid manure valuable
- keeps valuable natural nitrogen in the liquid manure
- saves artificial fertiliser
- reduces illnesses
- produces stronger growth of plants and better crops
- it doesn't cause burns when fertilising plants from the top
- increases number of microbes and worms in the soil
- avoids pulmonary diseases with pigs and so on

Correct use and dosage:

In the beginning about 20 g BIOVITAL POWDER is dissolved in 10 litre of water -stirred- and spread with a watering-can or, in big stables, with a spray technique over the entire grated floor.

With liquid manure tanks put the solution under the thick top layer. With first use take 1-2 kg BIOVITAL POWDER per 100 cubic meter of liquid manure, later the amount may be reduced. If you use it carefully in your stable once a week you need not treat the liquid manure tanks.

Amount: 2-3 g/GVE, 2 g per/fattened pig weekly.

BioVital Powder System a revolutionary innovation

2. BIOVITALL POWDER compost:

- increases the number of useful rot germs
- reduces strong smell
- pushes ahead the biological decomposition
- compost need not to be transposed as much
- enables composition of nearly twice as much raw material
- half the time for composting

Correct use and dosage:

2-4 kg BIOVITALL POWDER per 100 cubic meter of raw material dissolved in water-sprayed on the layers.

3. BIOVITALL POWDER as addition for instant feed or drinking-water.

It's added to the feed or drinking-water by for example pigs. To the feed in an amount of 200 g per ton. All experiments made up to now showed very good positive effects. It might be used with other animals as well. Drinking-water by pigs is 1kg on 20.000 litre of drinking-water. Ask us for the very good reports. For example 7 % better feed-conversion (7% less feed) and also 7 % better daily growth. Reduces ammonia and bad smell up to 80-90%.

4. BIOVITALL POWDER for cleaning water

- increases the amount of oxygen in the water.
- prevents the water from decaying, avoids the development of unprocessed mud and (brown) algae. Makes water clear.

5. BIOVITALL POWDER for plants

- improves much the growth of plants and the formation of vegetable soil
- increases micro-organism/oxygen bacteria in the soil
- 10 – 15 % more yield is possible by all of plants

With stock-keeping don't forget that all products are sensible against magnetic fields, constant neon light and long-lasting sun light.

Instructions for use of **BIOVITALL** **POWDER for liquid manure**

Effect

70 % of first time usage will show effects within the first week, 25-28% need a bit more time. In such a case we advice you to use a stronger solution the second and the third time. Only 2 % showed hardly any success. Most of the time other facts, are the reasons for failure. Use oxygen-rich water!

Storage of BIOVITALL POWDER

The best thing is to store it on a wooden shelf in the stable or - the store room. Keep it away from magnetic fields, electric current, loudspeakers, electric-engines and constant neon light.

Stirring of the BioVital Powder

If you use a watering can or a bucket put in 20 gram of **BIOVITALL POWDER** and 10 litre of water and stir it well. With a spray technique mix two hundred gram of **BIOVITALL POWDER** with one hundred litre of water. The more oxygen-rich solution you use the higher is the immediate effect.

Usage in basins, manure silos and cesspools:

Mix the **BIOVITALL POWDER** which is dissolved in water with the manure. For the first use take 1 kg **BIOVITALL POWDER** per 100 cubic meter. In case of problems use up to 2 kg. You either put the mixture into a manure barrel or tank, fill it with manure and pump it back into the basin, or you use a stirring tool. For example mix it in with your mixer.

You may also fill it into the liquid part of the manure - under the layer - with the help of a water pipe. With settled layers it might be advisable to inject the mixture directly into the layer with the help of that pipe. Please inject it to different spots.

Time of treatment: to achieve full effect, you should treat the liquid manure for 2-3 weeks. The treatment in the stable causes an advantage of time. Only well treated liquid manure is sprinkled on the fields. That lowers! the risk of burns when fertilizing clover or corn from the top.

There must be enough fluid in the manure cellar , because otherwise the manure can't become homogeneous.

Attention

BIOVITALL POWDER activates oxygen-loving organisms/aerobe bacteria, necessary in the process of biological decomposition. The biological decomposition, in turn, causes our liquid waste change into a valuable environmentally friendly, home-grown, multiple-use fertilizer. Since the liquid manure as you know contains living organisms, it is necessary to handle it with care.

BioVital Powder System a revolutionary innovation

Of course, everybody has to use antibiotics every now and then. But it is good to consider whether a short time usage will be sufficient and whether penicillin-enriched feed could be discontinued earlier.

In some areas, chloride is added to the water. If possible don't use much chloride to the water. Use (oxygen-rich) tap-water to mix the BIOVITALL solution.

Observations

Before using BIOVITALL POWDER for the first time have a look at your liquid manure and note:

- a. General view: Is the liquid manure homogenous-urine-water-dung combination. Any other unusual things?
- b. Water sample: Pour one bucket of water onto tile liquid manure-what happens?
- c. Movement: Is it possible to move the manure with the help of a board?
- d. Layer: Thickness and moisture of top layers and settled layers.
- e. Does it make bubbles and dissolved layers?
- f. What had to be done with the liquid manure until now ?
- g. How often was the liquid waste-pipe clogged ?

Check your liquid manure from time to time and dose your BIOVITALL POWDER accordingly.

WHAT DOES BIOVITAL POWDER CAUSE

Decaying of liquid manure by stimulating the micro-organisms/growth of aerobic bacteria and therefore:

Ability of flowing and homogenization of the liquid manure

- Dissolving solid and floating layers
- Liquid manure need not be stirred -saving of energy
- Decrease of the fly nuisance
- Regular fertilisation of tile fields

The liquid manure gets valuable

- No burns when fertilizing from the top
- Plant - better growth, higher yield
- Soil organisms - increase, balance of humus and natural fertility of the soil increase

No ammonia, instead ammonium nitrogen available for the plants

- Valuable, natural nitrogen remains in the liquid manure
- Higher nitrogen exploitation with the same time of bringing it out
- Even higher nitrogen exploitation with possibility to bring it out into the vegetation
- Later time of bringing out, dry, productive soil
- Also possible to bring out liquid manure when it is hot
- No decaying poisons come into being

The liquid manure doesn't smell strong any more

- Nearly no poisonous ammonia and harmful decaying gas in the stable (pigsty etc.)
- Less unhealthy annoyance in the stable
- Higher increase of weight with fattening animals
- Longer fertility with breeding animals
- Less nuisance of strong smell for the surroundings
- No more bad smell when taking out the liquid manure

BioVital Powder System a revolutionary innovation

BIOVITAL POWDER

Use in a big composting processing

Benefits of BioVital Powder

- a) BioVital Powder reduces the strong smell by composting gardening waste, small pieces of wood and waste from slaughterhouses.**
- b) The composting-procedure will takes 50 % of the usual time.**
- c) The compost heap needs to be less transposed. So you do not need to use heavy so often.**
- d) The finished product is crumbly and excellent suitable for processing.**
- e) With the use of BioVital Powder you can reduce wage hours, costs for energy and time for the use of appliances reduces clearly**

Dosage: 2-4 kg / 100 m³.

Notice:

The right dosage depends on the composting system and procedure. So you have to do some experience to find out which doses will be use in your composting system. Start with 3 kg / 100 m³. When you compost rather dry materiel 4 kg / 100 m³ is recommended.

BioVital Powder System a revolutionary innovation

Dynamics of: BioVital Powder.

Production: HGI Production B.V.

PDV registration 115148 (GMP+ International)

For the production of BioVital Powder products (BVP) powdered chalk, (feed)salt or magnesium sulphate are respectively used as the carrier, depending on the product-type. No substances are added to these carriers; rather they are packed with the function, i.e. the dynamics of oxygen. It is generally known that each and every substance known to man has its individual function or dynamic. For example, if required the dynamics/function of every (natural)substance could be transposed onto the carrier. Without then adding the substance to the carrier the function/dynamics of the substance exists. The animal recognises this as such and takes what it needs. The substance however isn't emitted into the environment. The administration of it cannot be shown only in grams for example. It works very nice.

When using for example the BioVital Powder for manure (BVP-M Plus) the information on the product can be used in the same way with oxygen-rich water in which it is dissolved. The water is also packed with the information. Should this solution be added to the manure with the initial help of the oxygen in the water, the oxygen-loving bacteria will multiply very quickly. This bacteria then emits CO₂. As manure contains algae, they in turn absorb the CO₂, multiply very quickly and emit oxygen. This oxygen is available immediately for the growth of the oxygen-loving bacteria too. Wherever the various BioVital Powder products are used an oxygen-poor (anaerobic) process shall therefore be converted into an oxygen-rich (aerobic) one. When using the product in veal-calves (white)yellow manure, you can soon see how it turns green through organism growth (algae).

Carbon dioxide is present in the manure moisture. As a result the manure bubbles and layers will dissolve, resulting in homogeneous manure. The pH-value ends up at around seven (neutral) The entire aforementioned process reduces both stench and ammonia by 80-90 %, just like that. Moreover, the process shall work through into the soil via the manure as here too the oxygen-loving bacteria will multiply very quickly. This can increase the yield by 10-15 % as the plant grows more roots, grows better and will be much stronger.

Various research studies have shown that when the BVP-V (CC-HG) product is mixed through animal-feed an aerobic process occurs instantly in the animal which results in much improved digestion.

To reiterate: BioVital Powder converts an anaerobic process into an aerobic process.

Vital for All