

Eco-Eff[®] KONTROL[™] SYSTEM

COMPREHENSIVE ECO-FRIENDLY CONTROL SYSTEM · 100% MINERAL



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Eco-Eff® KONTROL™

It is an eco-friendly system that makes compatible the technological advancement with an environmental respect within a sustainable development.

The use of pesticides, insecticides, fungicides and other compounds elaborated with a high chemical component may result dangerous for humans, fauna, environment and ecosystems in general. For that reason, experience accumulated by our company and its commercial and technological partners has resulted in the development of a new eco-friendly system for disinfestation, disinfection, pest control and protection of food, food raw materials and crops, through the use of a combined system of 100% mineral food products, authorized worldwide, without the presence of toxic or dangerous chemicals.



NO SAFETY MARGIN



**No Toxic Chemicals
(Chem-Tox)**



High Efficiency



No insect resistance

System Application

The Eco-Eff® KONTROL™ system is classified as eco-friendly for a number of reasons, including:

- Non-existence of a security period, so it is not necessary any time from the application until the treated products are consumed.
- It allows the application within the processing and manufacturing plants without the necessity of stopping the plant in terms of production, guaranteeing effective control, even in plants that remain in activity.
- Present excellent efficacy ratios compared to Chemical-Toxic.
- There is no resistance from insects, roe, larvae, etc.

Advantages

In contrast with treatments and applications of pesticides, insecticides and other products, Eco-Eff® KONTROL™ uses mineral food products authorized globally for its addition to food, so they are not aggressive with the environment, fauna, flora or other organisms. They are more effective by their nature and indirect mechanism of action, avoiding resistance development by target organisms

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ECO-GREEN KONTROL

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The treatment with Eco-Eff® KONTROL™ System does not leave residues, for that reason, its Utility, Safety, Competence and Efficiency are beyond any doubt.

PRODUCTS OF ORIGIN 100% NATURAL-MINERAL

Products such as Knamax™, Acarisin™, Eco-EFF®, SterilFood™, HydroAl™, and all those that make up the Eco-Eff® KONTROL™ system are food products, made up of natural-mineral ingredients, worldwide authorized with multiple functions. Among these functionalities is to protect food, food raw materials, ingredients and others, against mites, insects, roe, larvae, butterflies, etc.

These products can be applied directly on the raw materials, as well as in their mixtures, formulations, and combinations and practically in all the possibilities of presentation of these food raw materials. It acts without impact on human health, protecting the materials on which it is applied and avoiding the appearance of mites, insects and other organisms on the products or surfaces where it is applied.

As a protector, by its indirect action, it sometimes allows a better visual appearance of the product, and a selective increase in its useful life, by preventing biodegradation caused by certain organisms and conditions that are triggers of degradation processes of these sensitive materials.

¿HOW IT IS APPLIED?

Eco-Eff® KONTROL™ can be applied by industrial users in their facilities through their own operators, by prior transfer of Know-How or through concessionaires or licensees of ND Pharma & Biotech Co., usually selected companies, certified and authorized to carry out the applications and controls in the different areas and sectors in which the system is used and applied.

Consult us about options for using Eco-Eff® KONTROL™ within your industry, business or facility.

If you are an Environmental Health company or specialized in the Sector and you intend to incorporate this System and Product / s into your own arsenal, contact us sending an email to: info@ndpharmabiotech.com / Reference: Eco-Eff® KONTROL™



THERMOBILE

OR25



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PRODUCTS OF ORIGIN 100% NATURAL-MINERAL

KNAMAX[™] is the only food product for human use currently existing in the world with the capacity to achieve the reduction in logarithmic units of bacterial contamination (real and effective inhibition of pathogens), in cereals, seeds, meats, fruits, vegetables, industrial facilities, farms, etc. and with additional proven ability to act against all types of insects and pests, achieving unusual effectiveness.

Due to its composition, characteristics and special technology, when added to tap water (potable or purified), it provides an ionic mineral charge that acts, in contact with microorganisms, as a cell membrane disruptor through ionophoresis, causing death. Cellular DNA and even triggering in most of the micro-organisms against which it acts, a micro-fragmentation of cellular DNA, making it unviable, consequently causing its disintegration, giving way to an inert residue of what was previously a unicellular organism or complex multicellular. Thus, these remains or residual elements, far from being a substrate prone to the promotion and nutrition necessary for the generation of reactive oxygen species (ROS) or other micro-organisms, do not serve as sustenance for them, nor as a culture medium, as occurs when these remains are not inert, and actually act as decomposing organic matter, forming part in themselves of a growth-promoting substrate of other opportunistic organisms, as usually occurs in the case of meat or other foods and raw materials that are treated daily with products that do not obtain this result and effect.

The product is marketed in liquid presentation, as REACTIVE CONCENTRATE for its economy, especially in transport. For this reason, each litre of Knamax[™] concentrate can produce a quantity of finished product that will vary between 20 and 100 litres of final product, depending on the amount of water to which it is applied or its concentration. We call this solution (KNAMAX PFP) or PREPARED FINAL PRODUCT. By operating in this way, the result is a minimal impact of the cost per litre of product in those applications in dilution.

In industrial application, Knamax[™] does not require labeling as it is used mainly for the same purposes as technological aids, being a mixture of ingredients of 100% mineral origin and water, with imperceptible residue and, where appropriate, food and inert. Its food ingredients, 100% salts and mineral substances classified as suitable and safe for human consumption.

In any case, it must be remembered that KNAMAX[™] IS NOT A PRODUCT FOR DIRECT CONSUMPTION, AND ITS USE IS EXCLUSIVELY INDUSTRIAL, due to the presentation in which it is marketed. (See MSDS)

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Eco-Eff[®]

It is a technological, industrial food formulation, which represents an alternative to chemical pesticides in the face of the constant, natural and effective protection of food and food raw materials, compared to that offered through the application of Chemical-Toxic pesticides and acaricides/miticides of specific or sustained action, which is risky to human and animal health, the environment and the planet in general, and whose real impact has not yet been determined with sufficient resolution. Thus, new studies are emerging every day that place these products and their applications, in most cases uncontrolled, in health authorities sight of many countries around the world.

Through the combined use of the products that make up the **Eco-Eff[®] KONTROL[™]**, a new method is introduced that is valid to protect raw materials such as flours, cereals, cheeses, ham and nuts, etc., among others against the appearance, development and proliferation of species such as mites, spiders, ants, and others, especially with regard to control of their biological cycle, by acting mainly on the capacity of roe, pupae and larvae to hatch and develop.

Most of these species are likely to appear during the storage phase of these raw materials or in their production. But the most important effect in terms of loss of quality, expressed in terms of the perception of the customer or end consumer, results in the moment when the product packaged and placed on the shelf presents infestation, deterioration or alterations due to the presence of organisms (micro or macro).

Eco-Eff[™] prevents the appearance of pests by its effectiveness, also destroying certain types of adult insects. On the other hand, and in relation to fungi, molds, yeasts and other analogues, it has an influence on their proliferation, naturally inhibiting the activity of certain classes of spores, even under adverse conditions of temperature and humidity, preventing their development. of fungi derived from these, especially during the storage phases.

Its anti-thermal effect is known, which associated with the control effect of the intrinsic humidity of the grain, (for example) prevents the heating produced for different reasons, thus complicating the possibility of secondary deterioration of the grain in the silos, a phenomenon well known by producers, and is fought by various methods of cultural practice that, however, are far from the efficiency of our product.

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In packaging or secondary packaging of final product it results effective and it is suitable to be used in sustained applications and lasting protection. Its mineral nature means that the product does not deteriorate or lose effectiveness (except for what is being consumed). This action is achieved precisely because of the presence of the powder formulation and its adherence to the products in which it is applied.

All of this without impacting human or animal health, or the environment, on the contrary, an eventual mineral residue, depending on the quantities that are used or may remain on surfaces, floors, etc., would act as a perfect mineral soil recuperation purpose product.

An important mistake that is usually made in the first contact with products of this nature is to treat it as if it were a chemical-toxic pesticide, and there is a tendency in the authorized economic operators to show some concern about the residues, their effect, the possibility of bio-accumulation, etc., something that is common in those substances that, although authorized for application in food or to come into contact with food, are not strictly food-related as occurs with our product. Thus, since it is a food, in reality, a formulation based on salts and mineral substances, these are perfectly absorbable ingredients (via metabolism) and, where appropriate, removable by human and animal physiology, with no risk of toxicity, bio-accumulation or of pernicious overload of the organ systems and tissues. On the contrary, they are basic mineral nutrients, in ionic form, of which the body always takes advantage of undoubted nutritional value, important, as are minerals in the whole of healthy human and animal nutrition.

On the other hand, the ingredients that make up the product have been classified by the different most important health and health authorities in the world, and are a reference for other developing countries, as products and food ingredients without (ADI), or intake limit, and usable on demand, or according to need (*Quantum Satis*), naturally depending on the application of GMPs (Good Manufacturing Practices) in food and nutrition, for both, the human side and the animal side, thus conforming, a complete product in application, functionalities and results.

The efficacy of the product is beyond any doubt, and more and more studies; trials, tests and other testing methods carried out (many of them by our own distributors and / or clients) confirm it.

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The formulation produces an indirect control, of proven efficacy, on the life cycle of the insect through the elimination of adults and the control of the roe by their deactivation, preventing the appearance of new generations of them. It also controls certain bacteria such as *Bacillus cereus*, so important in the case of rice, and other cereals, as well as the flours and derivatives that are produced from these food raw materials.

The synergistic activity achieved by the combination of its components and the special shaping technology of said formula allows the product (that is in reality a mixture of food ingredients of 100% mineral origin), in its applications, to exercise a certain type of fungicidal, insecticidal and acaricide/miticide effect, controlling humidity, temperature, and others that contribute to the preservation of the raw food materials and foods on which it is applied or to which it is incorporated in an optimal state. This is especially important when we speak of products with high sensitivity, easy deterioration or whose organoleptic qualities are significantly affected by alterations in the conditions described above. A change in humidity, for example in bakery flours, will affect the entire product formed with it, producing altered flavours, undesirable nuances, invasion and early fungal proliferation, etc., with the consequent rejection by the end consumer, towards the product, the brand that endorses it, and in general causing a loss of confidence in it, as well as a break in the food safety chain of manufactured products, which is mandatory and preservation.

As it is a food product, even when it has these interesting functional capabilities or indirect control of precursor elements of deterioration of food raw materials and food, our product is free of aggressive substances, harmful to health, not allowed or like most chemical pesticides, neurotoxic substances, poisons in general whose real impact on population health has yet to be determined, and whose scope is uncertain. The success of a product like this lies in its capacity for action and the multiplicity of applications it has, especially those related to the long-term protection of food and food raw materials, the treatment of surfaces to which it is applied and the productive improvement, by reducing losses and increasing the structural quality of the products obtained from those crops to which it is applied and protected.

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It represents a definitive solution to the omnipresent problem of mites and insects in general food.

This occurs due to its double effect and indirect mechanism of action. As an example, in the case of stored cheeses or hams, on the one hand it prevents the appearance and growth of mites of the type *Tyrophagus putrescentiae* (cheese and ham mite), while causing functional improvements in the conservation and preservation of said food raw materials. (See specific brochure for hams). The functionality and effectiveness of the products, and in combination, of the system, is tested with a significant number of different species.

In other applications, the product or its combination is highly effective in pre-mix foods (pre-mixes for food and animal nutrition), transformed formulations, flours, powders, improver mixtures for different applications, (pizza dough, cakes, pastry and industrial and artisan pastries, elements for filling, biscuits, confectionery, and many others, standing out not only in food or food raw materials of those called dry, dehydrated, dried, fresh and elaborated, but also in the combinations between them. For example, in the case of finished and uncooked, pre-cooked, refrigerated or partially prepared Pizzas, to which the surface ingredients provide high levels of moisture to the dough, accelerating its deterioration by microorganisms, on the one hand and on the other hand, it contributes to a certain food and nutritional added value.

It is effective in combating the spread of other types of contamination caused by the activity exerted by certain classes of mites that invade processed foods and raw materials in terminal places, such as points of sale, and not only in warehouses, warehouses, logistics platforms or during transport (containers, trucks, etc. In this way, the spread that originates, in near times or just before the affected food is going to be consumed by humans and/or animals, is prevented.

From the spider to the rice poppet, each insect may require different times for its destruction and eventual elimination. Either by contact or by ingestion, the action times of the product may vary depending on the pest to be treated, the food to be protected, the application conditions, the dosages, and a series of variables, in short, that must be carefully considered when planning a particular type of action or application.

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Pests resistant to conventional chemical pesticides are a special area of interest in our case. Given that our products are made up of minerals, ubiquitous in nature, and made by means of a special technology, the possibility that insects develop resistance or adaptive adaptations to them are very low or practically non-existent because they are impossible. Thus, even when certain species or classes may have developed resistance to other products, these can be and are in fact controlled very effectively with Eco-Eff or, where appropriate, with the combination of products that make up the Eco-Eff® KONTROL™.

This is possible because its indirect action focuses on the interruption of the life cycle of the insect, by the massive action of some elements that exert an action impossible to control by the insect itself, except that the products do not reach it. Through this combined application system, it is possible to work affecting adults and their roe alike, with a greater impact over time, since the permanent action of the powder product gives continuity and permanence over time to the effects achieved in the initial shock with liquid products, (Knamax™) mainly. There have been cases of channels, surfaces and rooms of food companies, such as machines, channels, drawers, tunnels of closed circulation of products or roads, in which an application of powdered product after adequate treatment, has maintained its preventive action up to 2 years after the controlled application, with no new incidents or signs of re-infestation, nesting, roe deposits or insect reservoirs, something that no other product or treatment has achieved prior to the existence of Eco-Eff® KONTROL™ System.

Another notable characteristic in the application of products is the fact that for the first time, through the use of our products, a preventive effect of the appearance of insects and pests is achieved before it occurs, which generally occurs unexpectedly, abrupt and in the form of a violent (eclosion/eggs-flouring) outbreak.

The company culture and the current inadequate practices related to the existing products until now, had determined pesticide applications only when there is a massive infestation. These types of applications have limited effect, uncertain scope and relative effectiveness, given the inefficiencies and limitations that operate when these products are used. Our product and system have nothing to do with other methods or products, and neither do their effects.

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In fact, while most chemical pesticides present activities with little or no temporal prolongation, Eco-Eff[™] achieves that mortality occurs between days 1-14 from application, but its apparent effectiveness prolongation, (in comparative studies) go up to 60-90 days after an application, and depending on each type of organism fought. In the case of nests and egg deposits, these are inactivated almost immediately upon application, with the great advantage that the treatment can be applied as many times as it is necessary.

It can be used directly in its powdered formula or mixed with water. In this application, it leaves a micro-powder compatible with all foods and edible, without impact for the human being, acting through indirect metabolic action on the invading microorganisms, preventing them from forming an essential element for their defense, reaction and survival.

It does not modify the technology of the foods to which it protects, on which it is applied or to which it is incorporated, as long as they are used according to the types of application and the quantities recommended by the manufacturer or in accordance with GMPs (Good Manufacturing Practices) that govern the food industry in general.

Eco-Eff[™] reduces the risk of explosion in storage areas, especially those that coexist with other powders or suspended elements that increase this risk.

The formulation is designed and engineered to be applied in many different ways and through different systems:

Applied directly to the different stored raw materials (grain, seeds, feed, tubers, fruits, etc.).

Application in facilities, such as silos, warehouses, in industrial zones, machinery and areas or zones surrounding all industrial activity where the creation and consolidation of a so-called "zero zone" (Zero Zone · ZZ) is important in which it is intended that insects have a very difficult survival as well as very limited or no access to food raw materials and food, with the consequent decrease in the rate of infestation and contamination thereof.

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Application in pre-harvest, harvest and post-harvest: crops of all types, especially sensitive plantations, production areas affected by environmental and climatic variables, recurrent or endemic pests, structural or cultural changes, overproduction, etc., and in all types of crops, grains, cereals, fruits, vegetables, flowers, plants, as well as in greenhouses, etc.

Application in Animal feed, both in livestock production and for companion animals and pets, as well as in areas susceptible to being contaminated, such as nests, faecal lands, odour absorbers, nesting tissues, beds in farms, floors, etc., etc., where it also eliminates odours and keeps them dry.

Remover of stains caused by pets on carpets, floors, sofas, etc., a mere application of the powder, its brushing with water, and subsequent drying, leaving the place on which they are applied perfectly clean and conditioned.

Control of odors and volatile particles, including aromatic ones arising from animal excretions.

On the walls, floors and ceilings, of the storage places, silos, trucks, boxes, bags, tubes or drums, grinding tubs, mixers and all that apparatus or surface that may come into contact with food raw materials and / or food, and that due to its special structure or conformation, it stores remains of said raw materials, keeping them clean at all times.

They can be used in circumstances or surfaces for storage or transport and processing of said raw materials, not only in those that are designed to be stored for long periods of time, but also in those whose contact with the food raw material is made for short spaces of time or simply in its processing.

Our product is Eco-Friendly and respectful of the environment and human and / or animal health. And for that reason it is ideal to apply it in organic or ecological products.

This is one of the strengths of the system of application and use of our products as well as part of the innovative solutions that arise from the application and use of the **Eco-Eff[™] Kontrol System**. There are innumerable and constantly growing reasons for using our products and system, as well as the advantages thereof, which are reported to us every day by the thousands of users who are already satisfied customers.

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Why to use Eco-Eff[®]

The products or control systems based on chemical, chemical-toxic compounds (Chem-Tox) and other combinations available up to now, are harmful to humans, the environment, flora and fauna, sometimes causing permanent presence of These compounds that can reach unwanted raw materials, food and beverages, as well as other products in which the presence of them is not suspected.

Thus, essentially due to the use of insecticides, herbicides, pesticides and others with a high neurotoxic potential, and even mixtures of this type of substance made by farmers without any control, and, in order to provide them with greater power and action, combinations of products are being created that were not initially intended to be combined or mixed with each other. These combinations or mixtures, as has been said uncontrolled and impossible to calibrate in their extension, effect or direct and indirect toxicity, are impossible to study, which is why health authorities have an added difficulty when evaluating which or which substances are really hurting the population, in its consumption.

On the other hand, there is an important discrepancy between the so-called legal limits of exposure to these products and their combinations and the so-called limits that are tolerable by the body, which are two well-differentiated but highly ignored concepts, especially by producers, eager for effectiveness and savings. in costs. Thus, even when the legal limits are respected, this does not mean that the tolerable limits have not been exceeded, especially in cases pertaining to sensitive, especially vulnerable or poorly protected populations, such as infants, children, teenagers or the elderly.

Even though the limits and risks are constantly being evaluated by health authorities and other regulators worldwide, the difficulty of this task, its cost, the time required to obtain results Defining factors, and multiple other variables, make it complex to determine the safety and operating margin that these products have, unnecessarily exposing the population and the environment, and arriving late in providing solutions based on evidence for health protection.

Eco-Eff[™] is natural and innocuous, eco-friendly and respectful with the environment, health, life, and therefore, with the future of all, with our future as well.

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Eco-Eff® Technology

Our product is a technical and technological innovation, which represents an important and modern revolution in the world of protection and parasite control of food and feed raw materials. A product of 100% Mineral-Natural nature, which contributes in multiple ways to disinfection projects, disinfection, pest control and other certain protection systems, in a non-toxic, eco-friendly, sustainable, natural and respectful way with the human being and the environment.

It is a consistent resource, indicated for the protection of food raw materials, food and facilities, against a wide range of classes, types and species of insects and of differentiated application to any other existing product in its field and on the market. Its applications are not limited to those described, as the main sector in which it is used, since it has innumerable effects in the home, personal care, or in other areas of development and application such as industrial laundry, cosmetics, cleaning and maintenance of farms, facilities industrial, control of odours and volatile aromatic particles, control of humidity and water activity in food and multi-component products, etc.

Eco-Eff™ also allows, in its main applications in the agriculture-food industry, the effective and long-term control of insects, by regulating the biological cycle and the possibilities of growth and development of the same.

It represents a comprehensive, safe, economical, effective and efficient solution for the complete protection of stored grain, for example, even when humidity, temperature or storage conditions are not ideal, depending on the country and territory in which the application.

The protection provided by this system and product always remains active, as long as the product is present in the appropriate amounts and has a sustained action over time. All this entails the maximum savings and efficiency with the maximum possible and feasible safety in the world today.

Climate change, and the global warming that the planet has been suffering for years, currently means that geographical areas previously free of insects or with very little incidence, are now fertilized territories for new pests, which do not stop evolving and colonize lands that were previously hostile to them. This is where our system is vital, since it allows us to begin to control these pests, where the land has not yet suffered the massive presence of contaminants derived from such control attempts.





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Eco-Eff® Average Quantitative Application

It is applied in multiple ways, depending on the type of storage, raw material or installation, and the objectives and claims that are determined prior to its use.

For example, in grain silos and warehouses (Bulk) it is possible to apply when the grain is introduced in the space determined for its storage, allowing, through various systems, to homogenize the application on the amount of grain to be introduced, simultaneously with the grain input. It is also feasible and effective, when the previous system, for the sake of the industry facilities, or when they do not allow joint application at the entrance of bulk, to apply a layer every certain amount of grain introduced, establishing representative calculations per ton of ensiled grain.

Other application methods include dry blowing, pre-spraying with Knamax™ or water, and even conveying the product with other types of supports such as light white mineral oil, food oils that facilitate its fixation on the product and others.

This is especially useful in crops and in areas where you want the product to set and remain for as long as possible, protecting plantations, crops, trees or those areas where you want a fixation that prolongs its protective action for long periods of time, against colonies of molds, fungi and hyphae and therefore the increase in endotoxins derived from their proliferation, (aflatoxins, mycotoxins, etc.), elements that are currently in the sights of the authorities of health, all over the world, due to its harmfulness and unwanted effects on consumer health.

It is a very effective soil fortifier and when applied to crops, new crops significantly reflect its absorption, since ultimately the soil is the one who ends up collecting the Eco-Eff dust over time.

Guidance dosing table for EcoEff™ for bulk storage (exemplary):

0.2 - 0.3 g/kg	<u>with storage for 3 months</u>
0.3 - 0.5 g/kg	<u>with storage for 4-5 months</u>
0.6 - 0.7 g/kg	<u>with storage for 6-8 months</u>
0.8 - 1.0 g/kg	<u>with storage for 8-12 months</u>

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Eco-Eff[®] Qualitative Application

The different situations in which intervention with our system and product/s may be necessary, indicated or applicable, mean that there are almost as many modes of use as there are different situations. That is why, even when indicatively, we suggest applications, systems, methods or technologies and machinery, these can be varied on demand and depending on the particular needs of each producer, rancher, farmer, industrialist or company that requires it.

The wide flow and the different forms of application, which will vary according to the needs and depending on a considerable number of variables, (times, type of product, flow rate and infestation modes as well as types of insects, economic, productive, etc..) make, as indicated, that we can handle multiple application forms as a resource, and it is in this flexibility and options that the products and the system allow, that another main advantage is found. There is no single, universal and rigid mode of application. It is, like the advanced technology of our technology, applicable in adaptation to each specific situation.

Thus, depending on a brief study of the variables, that in a simple way, the doses of Eco-Eff[™] and its combinations with Knamax[™] can be varied, which will allow, in a multiplicity of situations, to improve efficiency, reduce costs, replacing pesticides, reducing the risks of exposure to them and the impact of their use, etc., with both therapeutic and preventive results over long periods of time depending on the doses chosen, the application system and the mechanisms for prolonging the effect of the product that we can count on after applications.

In product storage, in silos and other types of warehouses, the application in the form of "firewalls" is very useful and effective. We call this the system in which an amount is applied that covers the base of the silo, zone " per se "very problematic due to recurrent infestation, to later apply Eco-Eff[™] again at different levels of the silo, such as every 2 or 3 meters of ensiled grain height at the time of filling and a last layer at the end of the silo, this is, at the top or terminal filling pole. Each layer of this applied "firewall" is calculated based on the diameter of the silo or warehouse, being the normal application of 100 Kg for silos with a diameter of 20m. (These figures are naturally indicative). In the case of field applications (where consumption is of large quantities) we calculate dosages of between 5, 10 or up to 15 grams of powdered product and dosages of between 1 to 4 L of water in a dynamic mixture, no precipitates, being able to be combined with diluted liquid product, for the immediate eradication of the plague/s and subsequent protection against re-infestation and inhibition of the development and growth of spores and fungi.

Eco-Eff[®] KONTROL[™] SYSTEM

COMPREHENSIVE ECO-FRIENDLY CONTROL SYSTEM · 100% MINERAL

ECO-GREEN KONTROL

It combines both products with another special applications and control systems that have shown more efficacy than the use of chemical products for certain works, such as industrial hygiene, food, chemical, pharmaceutical, hospitality, etc.

**PRODUCTS OF ORIGIN
100% NATURAL-MINERAL**

Eco-Eff[®] APPLICATION SYSTEMS

Machinery

Different types of machinery can be used for different applications: thermo-nebulizers (cold for ATEX zones), gravitational dispensers, blowers, compressors, Aero-Brummer, fog machines, ventilators, etc. The different application systems require, depending on the area to be treated, of the spaces and of the claim of post-application results to have a minimum of utensils that most companies know, and have, due to the need for the application of substances other than Eco-Eff[™] and/or Knamax[™], and thus, it is normal that they have them or, if not, they can be acquired easily and at a very affordable cost, so that their own personnel apply the technology of our ECO EFF KONTROL system.

Knamax[™] Spraying

The product in liquid, once mixed with drinking / purified / chlorinated water, and therefore prepared for direct use, is applicable in grains, seeds, crops, recovery of contaminated and / or acid soils, among the great variety of applications it presents. Applications have been described as herbicide for it, in simple mixtures with other natural products of widespread use and easy access for the industrialist. In this type of application, its purpose is, among others, the elimination of spores, fungi, roe, adult insects, and the flow elimination of the microbiological polluting elements of the soil, the degradation by alkaline hydrolysis of disturbing elements of the soil, the inactivation of other toxic elements that may have been used previously, the reduction of aflatoxins, mycotoxins and other elements of risk to the health of the final consumer and, where appropriate, the micro-fragmentation of the acidifiers existing in the soil layers and the alkalization of the same. For this application, dosages are used that combine concentration levels between 1.5% and 10%. For certain special applications, higher concentrations will be required. If in doubt, consult the manufacturer.

Knamax[™] can be applied by means of a compressor, tractor, micro-diffuser, eclectic sprinkler and irrigation systems, etc. and in fact by means of any other that allows its application in spraying and this system is extremely practical for the operators of their own industry or field.

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Eco-Eff[®] APPLICATION SYSTEMS

The practicality, adaptability, flexibility and variability in the concentration/s allows to effectively combat active pests, roe, fungi, bacteria, treating high areas, in certain types of facilities, without problems or special conditions or material requirements and / or active and passive safety for operators. Knamax[™] acts effectively against any insect or pathogen, cold sterilizing food and contact surfaces without the need for time or safety margins, unlike what happens with most Chem-Tox products, with the consequent economic losses that this entails, in special during times of paralysis of factories, production centers and industries mandatory as derived from toxic products application. Its application, for example in the meat industry, is highly effective in substitution or in combination of those usually used. It can be mixed with processed meat, carcass treatment, airing areas, etc. resists the challenge of the presence of organic matter on work surfaces, boxes, tapes, Teflon, tables, without losing effectiveness. In high concentrations it is an effective grease remover, especially in hard-to-reach areas, debarkers, machines of all kinds where hygiene is required, waste reduction and non-food items cannot be used due to the risk of contact with organic matter. Agricultural industries use it, among other applications, to remove contamination from fruits, vegetables and vegetables, before being packaged and sent to the consumer market.

Thermal fogging

It is very useful in grains, seeds, crops, crops and in all types of bulk storage stages. The purpose of this system is to control and eliminate spores, fungi, eggs, adult insects and a certain type of microbiology present in the area of application.

Concentration dose: generally between 3% and up to 5%. If in doubt, consult the manufacturer. Its application is completed by means of a vehicle, which is the light white mineral oil, food grade, at a rate of 5 L for every 0.5 L of Knamax[™].

The application method is extremely simple. It requires a thermo-nebuliser that heats the product and gives off a type of vaporized smoke. This resulting smoke reaches the desired areas, provided that the physical-technical conditions are adequate.

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Eco-Eff[®] APPLICATION SYSTEMS

Thermal fogging (II)

It is also applied to warehouses and areas that require periodic sterilization or treatment because they are exposed to the outside and therefore to re-contamination by insects, certain bacteria and fungi. It is used in the same way to sterilize grain or bagged seeds, penetrating the smoke inside and allowing an effective control of roe, larvae and adult insects. After application and once the smoke has been cleared, there is no time or margin of safety, allowing operators and other surrounding personnel to work in the area without any inconvenience.

To treat large silos or warehouses, 500 cc of Knamax[™] is enough for each heat fog load, which implies a really low cost, with the ease that it can be applied by any operator belonging to the company itself with adequate training, easy to acquire.

It is advisable to carry out the treatment during the filling process of the silo or warehouse, or by generating a cloud inside the silo during the filling process that is maintained until the supply of grain is completed or by treating it prior to silage.

Thermal fogging is a perfect complement to treat all types of grain that, for whatever reason, must remain ensiled or stored longer than usual, and that for this reason may be more susceptible to re-infestation. In these cases, we recommend treating with a thermal fogger as soon as possible and as often as necessary, since its low cost allows preventive treatments without the need for the grain to reach high levels of infestation or contamination, which are more complex to eradicate.

Open warehouses present a challenge and require special maintenance treatment for mountains of grain. Thus, even when properly treated, they are exposed to constant recontamination on the surface that over time end up undermining the protection they have been provided with. Therefore and for the sake of constant active protection, (CAP), we advise two forms of additional protection, namely;



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Eco-Eff[®] APPLICATION SYSTEMS

Thermal fogging (III)

In addition to the amount of 0.1 g / Kg of Eco-Eff[™] for each month of silage / storage (or the cost saving firebreak system) mixed with the grain, it is proposed first of all, to carry out through a selective application, a thin layer of product in powder, on the mountain by means of a blower or dissemination devices that obtain a similar result and another thin layer around all the grain, walls and floors of the warehouse where it is going to be deposited, with the so that the insects and roe that were eventually deposited in it, have no chance, or the least possible of survival; And secondly, our proposal is to treat the surface of the tanks or mountains of grain, as well as the walls, ceilings and all the corners of the warehouse itself, in order to ensure that grain and facilities remain perfectly protected and treated.

It is also advisable to carry out this last step from time to time in open areas that can be re-contaminated in a much more usual way than in closed silos or warehouses, as already mentioned above.

Observations of interest

If you want to treat METALLIC surfaces with Knamax[™], both by spraying, by thermal fogging, or direct application, it is important to remember that the minerals present in the liquid product are in the form of metal ions of mineral salts, so it is advisable to apply a Once the application is finished, a rinsing with purified water is carried out, in order to avoid possible oxidation or metal salts attacking the metal, and producing systemic corrosion thereof. This naturally does not occur with metal surfaces, pipes or tanks that have been subjected to anti-corrosion treatment or passivized, very common in the industry in general.

However, a rinse is sufficient to avoid any remaining product that could cause damage in long-term applications on the metal.

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Eco-Eff® APPLICATION SYSTEMS

Eco-Eff® and Knamax™ spraying

This application system, in grains, seeds (with bath or washing of grains and seeds) and with or without subsequent drying, in crops, recovery of contaminated and/or acid soils, has the purpose of eliminating spores, fungi, roe, adult insects and, where appropriate, the elimination of microbiological elements that contaminate the soil, degradation and fragmentation of soil acidifiers and alkalization of the soil.

The concentration doses vary between 1.5% and up to 10%, of liquid product and between 1 and 10 g of powder product for each litre of mixture. If in doubt, consult the manufacturer.

Eco-Eff Kontrol System®

It consists of a system of combined application of certain products, mainly Knamax™ and Eco Eff®, but without ruling out the intervention of other products and systems, in order to provide comprehensive protection to the entire industrial area (interior and exterior) or in where appropriate, complete areas of industrial facilities including the perimeter areas, subsequently generating a "ZONE 0", in which infestation and other types of invasion can hardly progress, remaining in perfect condition and free of infestation and/or contamination for months, specifying only minimal supervision, especially in those areas where the areas most likely to be compromised from time to time are found.

Application Rate: spraying 10% Knamax™ in areas with the highest accumulation of dust such as walls, ceilings and floors. Eco-Eff® is also applied at a rate of about 5 g per square meter using a blower when the wall or area to be treated is still damp after applying the liquid product, thus achieving a better fixation of the powder product, remaining active for months, where it is fixed.

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Eco-Eff® APPLICATION SYSTEMS

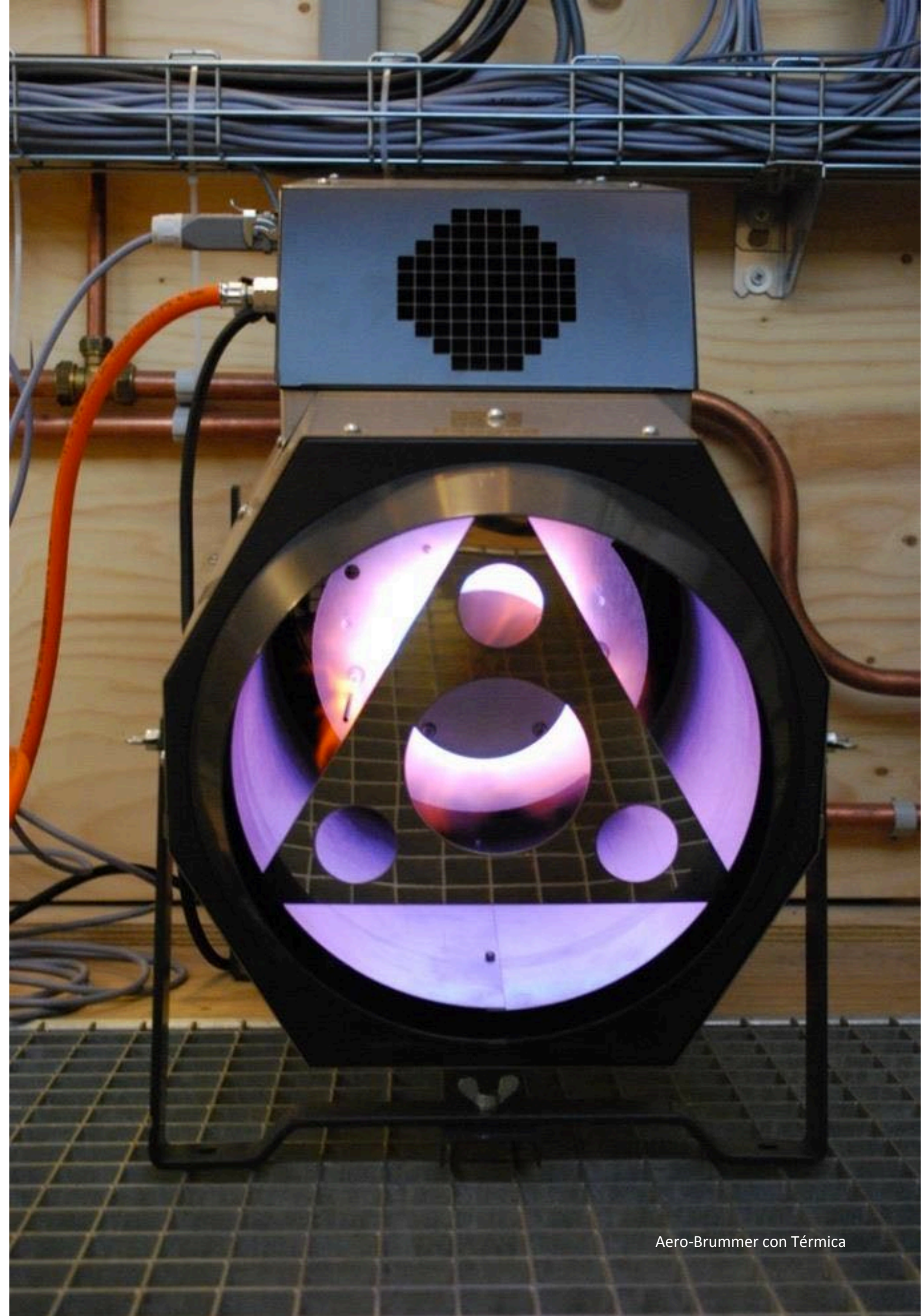
Eco-Eff Kontrol System in poultry farms.

It is an application that requires special care, due to the complexity, especially in the case of control of certain species such as the red mite, and the complexity represented by its eradication from poultry farms, to which we dedicate a publication independent and for which there is a specifically developed know-how. In any case we will make a brief review here.

Thus, for its use on farms, a special dedication is advisable, in order to combat the high level of contamination and/or infestation that exists, so each factor that represents a variable must be taken into account for making decisions about application, that is, volume of space to be treated, number of animals, type of installation, construction materials of the same, level of hygiene, temperatures that are combined in the area and within the facilities, environmental situation of the same, presence of relative or absolute foci in proximity, types of infestation and factors of impossibility of effect of the product, possible places of generation of egg reservoirs, reproductive deposits, concentrations, etc., especially in the case of the "beds" of the farms, as these are a breeding ground for insects and microbes.

That is why its initial application must be frequent. An application of Knamax™ is recommended every 7 days, 14 days and 21 days in combination with Eco-Eff®, in order that a physical barrier can be generated that lasts while the biological cycle of the insect is broken by the sustained action of these products.

After several weeks (4-6) it will be possible to program the reduction or spacing in the frequency of the applications to one for every 15 days and depending on the elements or variable factors, including one application every 30 days. However, it is advisable to use Knamax™ in the beds periodically to avoid re-contamination, and the generation of other sources, especially by elements coming from the feces and its fermentation or cultured in them, that is, those for which the feces and other excrements represent an ideal breeding ground.



Aero-Brummer con Térmica

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100% NATURAL-MINERAL**

Eco-Eff® APPLICATION SYSTEMS

Eco-Eff Kontrol System® in countryside application.

For its use in the countryside, it is advisable to carry out, always and depending on the type of crops to be treated, previous tests of phyto-toxicity and resistance of crops and pests with a concentration that can be initially established between 0.5 and up to 3% per litre of drinking water, and apply it to a small part of the crop, especially with regard to foliar application, in order to verify that 24, 48 hours after application, the crop in question has not undergone any modification or possible damage, without the fixation of the product on leaves and stems constituting a modification. Sometimes the product is fixed and the plant or the leaf may show surface changes (non-structural or sub-epithelial), which are not relevant to us, on the contrary, they represent reliable proof that the product is active on the surface.

Once these extremes have been verified, the entire plantation is treated. If the pest to be fought is very existing at the concentration that the foliar part supports, the application will be repeated as many times as necessary until the pest is eliminated without causing any damage to the crop, achieving the same effect as with a higher concentration in a single application, since the effects of each application are cumulative for microorganisms but not for plants and crops. This works if the times between each of the different applications are respected.

Example: if we have a plague of Red Spider or Aphid and the foliar part only supports 1.5%, we will apply Knamax™ to the entire plantation at 1.5%, we will wait 48 hours and if the Red Spider persists, we will repeat the application at 1.5%. Only in this way will we achieve the annihilation and selective control of the invasive or pernicious insect, without any damage to the plantation. It is advisable to apply Eco-Eff™ intercalated (or mixed at the same time), with the application of Knamax™ if what is desired is a better result and a protection of the treated crops that is prolonged in time or whose action is sustained.

A joint solution of between 0.5 and up to 2% of Knamax™ mixed with 5 and up to 15 g of Eco Eff® per 100 L of water is normally used (the pertinent check must always be made that the solution or preparation it does not affect the type of crop, especially those that are very sensitive, and wait at least 24 hours before applying it to the entire plantation).

NATURAL PROTECTION AGAINST HIDDEN DANGERS



EcoEff®

100% NATURAL – MINERAL EDIBLE PRODUCT DESIGNED FOR FOOD PROTECTION
ACARICIDE·INSECTICIDE·MITICIDE·FUNGICIDE·OVICIDE·LARVICIDE
EFFECTIVE AGAINST CERTAIN FOOD BACTERIA
FOOD PRODUCT MADE FROM MINERAL SALTS AND INGREDIENTS·CLEAN LABEL·
EDIBLE TO USE IN RECIPES·BAKERY·CONFECTIONERY·ETC.
MULTIPLE USES AND APPLICATIONS
WORLDWIDE APPROVED INGREDIENTS
(EU·Reg.CE1925/2006), (FDA·GRAS)

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Eco-Eff[®] KONTROL[™] SYSTEM

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Eco-Eff[®] APPLICATION SYSTEMS

A joint solution of between 0.5 and up to 2% of Knamax[™] mixed with 5 and up to 15 g of Eco Eff[®] per 100 L of water is normally used (the pertinent check must always be made that the solution or preparation it does not affect the type of crop, especially those that are very sensitive, and wait at least 24 hours before applying it to the entire plantation).

At the time of the production of this publication, the health authorities of the EU, notified the finding of an increase in anatomical malformations in neonates, whose relationship with the pesticides Chem-Tox and their application in the field seems unquestionable, so that new and expanded investigations are ordering. France and Spain are the most affected EU Member States, according to initially available data.

Eco-Eff Kontrol System[®] in Soil Recovery.

The recovery of soils that must remain for years without harvests due to contamination or the unapproachable presence of different types of pathogens, are quickly recoverable with the application of Knamax[™] or other products belonging to the Eco-Eff Kontrol System such as Hydroal[™]. (See specific information about this product).

Also for soils that present extreme acidification, treatment with this system is useful, helping their rapid conversion, the transformation into inert of a large part of the harmful or corrupting elements of the soil, the elimination of invasive species that destroy crops and the preparation of the soils and surfaces for the correct and effective reception of the new crops, reducing the dangers of destruction by these species.

One of the additional advantages of this treatment results from its extreme compatibility with any other soil recovery product or compound, without undesirable interactions, thus allowing new crops to also take advantage of residual mineral salts after treatment with our system, as soil nutrients absorbable by plants.

This system allows carrying out a sustainable control of pests that is respectful with the environment, the industry and the end consumer, transforming even organic waste and garbage into products that can collaborate in the natural conservation of the cultivation soil and its transformation.

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Eco-Eff[®] APPLICATION SYSTEMS

Without negative impact on the environment, without depletion of the ozone layer, without toxicity for humans and animals, without formation of photochemical oxides, without formation of particulates, without ionizing radiation, without acidification, without affecting the drinking water or the marine waters or rivers, (eutrophication), with application in urban, agricultural soils, and without depletion of groundwater or fossil organisms, are some of the innumerable advantages of using advanced technologies, based on products of a 100% mineral nature, such as those that make up our system.

EcoEff®
by ND pharma & Biotech

BECAUSE DANGER
IS EVERYWHERE

EcoEff®
by ND pharma & Biotech

#1 Worldwide

Natural · Economic · Efficient · Eco-Friendly
Disinfection / Disinfestation System

ND Pharma & Biotech

Going Green With The Planet



BUSINESS OPPORTUNITY ECO-EFFICIENT DISINFESTATION AND TREATMENT

SECTOR: AGRICULTURE, INDUSTRIAL,
FORESTRY, FOOD PROCESSING,
FOOD PRODUCTION, HOME,
GARDEN, TRANSPORTATION,
STORAGE, PRIVATE & PUBLIC
CORPORATIONS. ETC.

CONTEXT & OPPORTUNITY

Insects, eggs, parasites, and other undesirable population is creating a number of problems, including losses and damages to industrial, commercial and manufacture corporations and individuals all around the world. The actual systems and products are considered toxic and potentially harmful to humans, animals, an eve life-threatening at large, to the extent that a number of industries and individuals-on-charge, are considering seriously to look for alternative solutions to conventional pesticides to open doors to the use of less or non-toxic compounds for pest control.

Our company developed a number of such solutions that are of commercial interest to society at large, with clean label developments, and even food grade compounds that are engineered and designed to accomplish the mission of protecting foods, people, crops and premises from the invaders and intruders, with zero impact on human, animal, water or life health.

This is called Eco-Efficient Disinfestation and Treatment (EcoEff®) by ND Pharma & Biotech.

A sustainable and 100%-Ecological Efficient supported products and applications within the most varied fields of earth life.

From industrial sectors, agribusiness, food processing, storage of raw materials, alimentary premises, etc., a natural solution for pest control and disinfestation against a variety of undesirable intruders is necessary.

THE OPPORTUNITY

ND Pharma & Biotech, offer the exclusive implementation of EcoEff® product line to world-wide, state and regional markets.

Ideal candidate are small and medium size companies, able to acquire the license, hold premises and products, and provide of such application and control services to the vast portfolio of clients that will be candidates. Licensees also has to develop commercial activity and promotional campaigns to implement the system and products, having the capacity, technical and humane, as well as the commercial option of selling such products to prospective corporations not in need of an outsourced company to apply the solutions.

Market opportunity is promissory huge, with a number of results, varying in dependence of effort and resources employed. Training, marketing orientation and commercial solutions can be provided on demand by ND Pharma & Biotech, under contract.



EcoEff® and EcoEff Solutions are sole property of ND Pharma & Biotech Company Ltd. This product and system is offered under license to industrial operators. For more details about this business opportunity please contact us in writing to: info@ndpharmabiotech.com Ref: EcoEff licensing opps.

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BUSINESS OPPORTUNITY ECO-EFFICIENT DISINFESTATION AND TREATMENT

SECTOR: AGRICULTURE, INDUSTRIAL, FORESTRY, FOOD PROCESSING, FOOD PRODUCTION, HOME, GARDEN, TRANSPORTATION, STORAGE, PRIVATE & PUBLIC CORPORATIONS. ETC.

EcoEff® CHARACTERISTICS AND COMPETITIVE ADVANTAGES

The ND Pharma & Biotech's EcoEff® is a complete line of products specifically designed to apply and reach a full satisfactory, non-toxic solution for pest control, sterilization, treatment and chemical toxicity avoidance referred to the different lines of solutions that industry and other operators are demanding from long ago.

Every product is conceived and engineered prior to the market launch and applications as a substitute of other products made from such chemical compounds and/or containing some of them. Despite efficacy is generally proven, human, animal, water & earth effects derived from the use of that kind of material, are not sufficiently studied and tested in the medium and long term. Toxicity also, is determined generally on animal studies and/or simulations with a completely different lecture can be made, as a consequence of the permanence and persistent activity of compounds are taken into account.

EcoEff® APPLICATIONS AND POTENTIAL MARKETS FOR DIFFERENT PRODUCTS

PRODUCT	AREA OF ACTIVITY	USE
EcoEff Powder	Acaricide, Miticide, Insecticide, Fungicide.	Disinfestation, Prevention, Treatment, Home, Garden, Industry, Crops, Stored Raw Materials, Human and Animal Food Protection, Addition, etc.
EcoEff POX	Special Uses	Ecologic Treatment and Disinfection of Animal Production Premises and Instruments-Tools
EcoEff W-React	Cold Sterilization	Cleansing and disinfection of all kind of surfaces, machinery, tools, premises, air conducts, materials, etc.
EcoEff P-React	Water Treatment	Pools, SPA, Natural-Mineral Water Treatment, etc. Manufacture's Industry



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Eco-Eff® KONTROL™ SYSTEM

COMPREHENSIVE ECO-FRIENDLY CONTROL SYSTEM · 100% MINERAL

¿Dónde se aplica?



ND Pharma & Biotech Co.

ND Pharma & Biotech is active worldwide in Pharma, Nutrition, Agriculture, Industrial, Performance Materials and Chemicals. The company creates innovative products and services that help to improve life according with its motto of Making Life Better®. ND Pharma & Biotech products are used in a wide range of end markets and applications from human and animal nutrition, healthcare, life sciences, cosmetics, pharmaceuticals, automotive, transport, coatings, housing, electrics and electronics, crop protection, food preservation, disinfection and hygiene, etc. ND Pharma Food Specialties portfolio focuses on accelerating profitable and innovative growth of this Company Division Portfolio. Market-driven growth, innovation and increased presence in emerging economies are key drivers of our main strategy. We are within the global leaders in the field with a current portfolio of + 200.000 product references and + 800 own proprietary technologies and developments. Headquartered in England, UK, and proudly operating worldwide. More information can be found at www.ndpharmabiotech.com, and subsidiary websites as www.ndpharmabiotech.net and Corporate site www.ndpharmabiotech.org or writing us to info@ndpharmabiotech.com, stating clearly the motive of your communication, information needed, and contact data, both personal and institutional

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ND Pharma & Biotech – We do Science for You.™

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