

NATURAL PRODUCTS

The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and **innovation**



Union 
B.I.O.
SOLUZIONE NATURA

ENVIRONMENT line

...TOWARD A BETTER FUTURE

Union B.I.O.® S.r.l. was founded in 2000 and reflects the outcome of the Labor Chimica S.r.l. - Labor Group Institute of Analysis and Research. The scientific team is mainly made up of women who have decided to slow down and devote more attention to the environment.



PRODUCTS

Union B.I.O.® proposes four different lines:

- natural products for the care, hygiene and beauty of dogs and cats
- natural products for the care, hygiene and beauty of horses
- natural products for the environment
- natural products for deep hygiene and cleaning



“THINKING ENVIRONMENT”

This is an attitude which leads Union B.I.O.® in defining the corporate policy, in the choice of materials used and in daily way of life.



SCIENTIFIC RESEARCH

Union B.I.O.® natural products are not assembled, but they are formulated, resulting from a careful and continuous cooperation between **scientific research, innovation** and **knowledge of plants** and their active principles. Union B.I.O.® is proudly and continuously in collaboration with the most important Italian Universities for all its projects of research.



MATRICE U.B.®

It is a **registered trademark**, resulted of Union B.I.O.® scientific research. It is a polyvalent **phytocomplex** present in all our natural products, extracted from the olive tree, **able to strengthen the other official plants properties**.



PRESERVATION OF NATURAL AND ANIMAL HERITAGE

Do not kill if you can **keep on distance**. Union B.I.O.® respects all animals, even those unwelcome as mice, moles, reptiles, insects, etc. Our products of the environment line keep them away from the places where they are all unwelcome.



REPELLENT PRODUCTS WITH PLANT EXTRACT

The scientific team of the University of Ferrara, in the laboratories of the Consorzio Futuro in Ricerca, tested for the first time the effectiveness of plant-based **products with repellent activity** formulated by Union B.I.O. The efficacy tests were performed both in a controlled environment and in the field. The results demonstrated an effective repellent action against the most common insects. "No FlyInsects" and "NoFlyInsectsPlus" obtained the authorization of the Ministry of Health as **Presidi Medici Chirurgici**.

Nature gives the opportunity **to achieve the same results by replacing chemical products**, even of the new generation, **without damaging the environment**.

NATURE IS NOT PLAN B... THAT'S WHY CHOOSE US!



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The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and innovation



MADE IN ITALY

NO FLYING INSECTS REPELLENT



TIGER
MOSQUITO



ANT



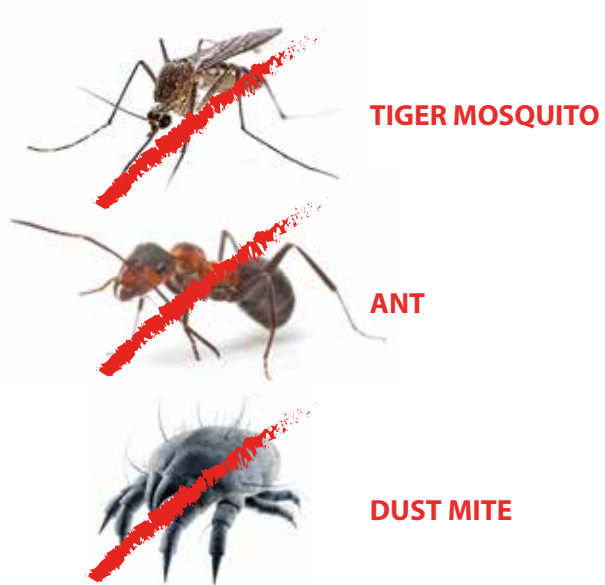
DUST
MITE

Insect-mite repellent ready to use for environmental treatments.
Spray no gas for professional use and amateur.

No Flying Insects is a repellent against tiger mosquitoes, ants and dust mites, ready-to-use with geraniol, active substance of plant origin. Our product is **authorised by the Italian Ministry of Health** (*Registration No. 20633*). The active ingredient Geraniol works in synergy with the molecular complexes of Lemongrass and Eucalyptus to boost the efficacy of the product.

NATURE PROTECTS US

- Water solution
- Repellent against tiger mosquitoes, ants, dust mites
- With geraniol
- Ready to use
- Effective up to 24 hours
- With a nice fragrance



GERANIOL

- Active substance of plant origin
- Naturally present in many plants such as geranium, lemongrass and palmarosa
- Recognized as an effective insect repellent
- Non-toxic to humans and animals
- Safe for the environment
- It is not a chemical
- With a nice fragrance

FIELDS OF USE

Living areas: kitchens, canopies, cellars, bedrooms, wardrobes, shutters, curtains, room corners, under furniture, deposits, near kennels, dog and cat shelters, gateways. **In public and community places:** hospitals, schools, shops, deposits and warehouses, sports, recreational and coexistence venues in general. **Resort areas:** hotels, campsites, farmhouses, hostels, etc. **Production areas:** food processing areas, mills, warehouses, deposits, canteens, restaurants, dairies, slaughterhouses, retail premises, packaging plants, supermarkets. **Composting plants:** sewage plant, sewers, landfills and waste disposal areas. **Means of transport:** transports for people, animals or goods. **Port and airport areas, means of transport and railway stations.** **In green areas:** such as hedges, gardens, tree-lined avenues for the control of tiger mosquitoes.

HOW TO USE:

Shake well before use. Spray from about 30 cm on surfaces such as windowsills, skirting boards, edges, jambs, cracks, under sofas, carpets or in general in transit areas or where insects settle. One litre of ready-to-use product covers an area of 59m². When used on greenery, cover the vegetation evenly avoiding dripping.

COMPOSITION:

100 grammes of product contain: Geraniol g 0,5 (5 g/l), Coformulants q.s. up to g 100
 Contains: Geraniol, *Eucalyptus Globulus* leaf oil, *Cymbopogon Winterianus* herb oil.

EAN CODE:

8032958824447
 8032958824393
 8032958824409
 8032958824416

PACKAGES:

500 mL bottle - 6 pieces per box
 1 L bottle - 6 pieces per box
 5 L Tank - 2 pieces per box
 10 L Tank

PALLET:

600 bottles / 100 boxes
 480 bottles / 80 boxes
 120 tanks / 60 boxes
 60 tanks

NO FLYING INSECTS

ZANZARA tigre

REPELLENT



Insect repellent ready to use for environmental treatments.
Spray no gas for professional use and amateur.

No Flying Insects is a **repellent against tiger mosquitoes**, ready-to-use with geraniol, active substance of plant origin. Our product is **authorised by the Italian Ministry of Health** (*Registration No. 20633*). The active ingredient Geraniol works in synergy with the molecular complexes of Lemongrass and Eucalyptus to boost the efficacy of the product.

NATURE PROTECTS US

- Water solution
- Repellent against tiger mosquitoes
- With geraniol
- Ready to use
- Effective up to 24 hours
- With a nice fragrance



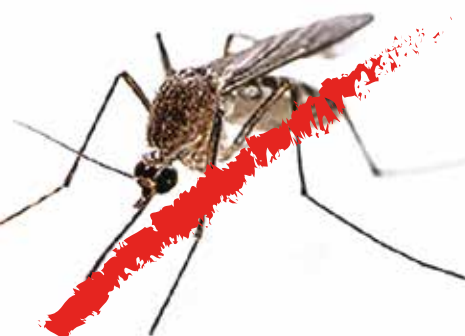
TIGER
MOSQUITO





GERANIOL

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- Naturally present in many plants such as geranium, lemongrass and palmarosa
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INFORMATION - MOSQUITOES

Mosquitoes are a group of small order Diptera. Their mouthparts are very specialised, particularly those of the females, in fact they have tube-like mouthparts to pierce the skin and to suck blood. Mosquitoes are active from March to November according to seasonal trends and weather changes. In warm and humid tropical regions, some mosquito species are active for the entire year, but in temperate and cold regions they hibernate. Normally, fertile females spend the winter in hidden spaces and holes. These insects can be carriers of **important diseases**.

In most species, adult females lay their eggs in stagnant water. The mosquito biological cycle is around 15/20 days, although in particularly warm periods it can be 10 /12. The cycle includes 4 phases: the first three (eggs, larva and pupa) take place in the aquatic environment, while the last one, when the mosquito reaches sexual maturity, takes place in aerial environments.

Pappataci or phlebotomes are a group of order Diptera; they are very small, silent and harassing insects. They usually do not fly often and they move in clouds in the early hours of dawn and sunset by short distances. The sting of these insects on dogs, can cause **leishmaniasis**.



FIELDS OF USE

Living areas: kitchens, canopies, cellars, bedrooms, wardrobes, shutters, curtains, room corners, under furniture, deposits, near kennels, dog and cat shelters, gateways. **In public and community places:** hospitals, schools, shops, deposits and warehouses, sports, recreational and coexistence venues in general. **Resort areas:** hotels, campsites, farmhouses, hostels, etc. **Production areas:** food processing areas, mills, warehouses, deposits, canteens, restaurants, dairies, slaughterhouses, retail premises, packaging plants, supermarkets. **Composting plants:** sewage plant, sewers, landfills and waste disposal areas. **Means of transport:** transports for people, animals or goods. **Port and airport areas, means of transport and railway stations.** **In green areas:** such as hedges, gardens, tree-lined avenues for the control of tiger mosquitoes.

HOW TO USE:

Shake well before use. Spray from about 30 cm on surfaces such as windowsills, skirting boards, edges, jambs, cracks, under sofas, carpets or in general in transit areas or where insects settle. One litre of ready-to-use product covers an area of 59m². When used on greenery, cover the vegetation evenly avoiding dripping.

COMPOSITION:

100 grammes of product contain: Geraniol g 0,5 (5 g/l), Coformulants q.s. up to g 100
Contains: Geraniol, *Eucalyptus Globulus* leaf oil, *Cymbopogon Winterianus* herb oil.

EAN CODE:

8032958824515
8032958824522
8032958824539
8032958824546

PACKAGES:

500 mL bottle - 6 pieces per box
1 L bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

600 bottles / 100 boxes
480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks

The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and innovation



MADE IN ITALY

NO FLYING INSECTS

FORMICA

REPELLENT



Insect repellent ready to use for environmental treatments.
Spray no gas for professional use and amateur.

No Flying Insects is a **repellent against ants**, ready-to-use with geraniol, active substance of plant origin. Our product is **authorised by the Italian Ministry of Health** (*Registration No. 20633*). The active ingredient Geraniol works in synergy with the molecular complexes of Lemongrass and Eucalyptus to boost the efficacy of the product.

NATURE PROTECTS US

- Water solution
- Repellent against ants
- With geraniol
- Ready to use
- Effective up to 24 hours
- With a nice fragrance





GERANIOL

- Active substance of plant origin
- Naturally present in many plants such as geranium, lemongrass and palmarosa
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INFORMATION - ANTS

Ants are eusocial insects of the family Formicidae, order of the Hymenoptera. They are the 10% of the animal population and about the 50% of the population of the insects.

Their society is **organised in caste**: queens, male and workers. The Queen Ant is the only fertile female. The males are as big as the queen and have 2 pairs of wings that never fall. The workers are all females, they do not lay eggs, but have different tasks. Colonies are remarkably stable and long lasting.

They mainly live in the countryside and in wooded areas, but during the warm season they infest houses and food industries in search of food, particularly sugars and proteins.

They can be harmful, because they can be carrier of pathogenic microorganisms such as *Pseudomonas*, *Staphylococcus*, *Salmonella*, *Clostridium*, etc.

Ants communicate through their thin mobile antennae and pheromones. The antennae provide information about direction and intensity of the smell.



FIELDS OF USE

Living areas: kitchens, canopies, cellars, bedrooms, wardrobes, shutters, curtains, room corners, under furniture, deposits, near kennels, dog and cat shelters, gateways. **In public and community places:** hospitals, schools, shops, deposits and warehouses, sports, recreational and coexistence venues in general. **Resort areas:** hotels, campsites, farmhouses, hostels, etc. **Production areas:** food processing areas, mills, warehouses, deposits, canteens, restaurants, dairies, slaughterhouses, retail premises, packaging plants, supermarkets. **Composting plants:** sewage plant, sewers, landfills and waste disposal areas. **Means of transport:** transports for people, animals or goods. **Port and airport areas, means of transport and railway stations.** **In green areas:** such as hedges, gardens, tree-lined avenues.

HOW TO USE:

Shake well before use. Spray from about 30 cm on surfaces such as windowsills, skirting boards, edges, jambs, cracks, under sofas, carpets or in general in transit areas or where insects settle. One litre of ready-to-use product covers an area of 59m². When used on greenery, cover the vegetation evenly avoiding dripping.

COMPOSITION:

100 grammes of product contain: Geraniol g 0,5 (5 g/l), Coformulants q.s. up to g 100
Contains: Geraniol, *Eucalyptus Globulus* leaf oil, *Cymbopogon Winterianus* herb oil.

CODICI EAN:

8032958824560
8032958824577
8032958824584
8032958824591

CONFEZIONI:

500 mL bottle - 6 pieces per box
1 L bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

600 bottles / 100 boxes
480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks

NO FLYING INSECTS

Acari

REPELLENT



Mite repellent ready to use for environmental treatments.
Spray no gas for professional use and amateur.

No Flying Insects is a **repellent against dust mites**, ready-to-use with geraniol, active substance of plant origin. Our product is **authorised by the Italian Ministry of Health** (*Registration No. 20633*). The active ingredient Geraniol works in synergy with the molecular complexes of Lemongrass and Eucalyptus to boost the efficacy of the product.

NATURE PROTECTS US

- Water solution
- Repellent against dust mites
- With geraniol
- Ready to use
- Effective up to 24 hours
- With a nice fragrance



DUST
MITE





GERANIOL

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- Naturally present in many plants such as geranium, lemongrass and palmarosa
- Recognized as an effective insect repellent
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- Safe for the environment
- It is not a chemical
- With a nice fragrance

QUALITY - SAFETY - ENVIRONMENT



INFORMATION - MITES

The house **dust mites** are member of the family Pyroglyphidae, probably among one of the first species to colonised the mainland. They are about 200-300 micron (0.2-0.3 mm) and can be seen just with a magnifying glass, or rather with a microscope.

They include numerous parasitic species of animal and plant organisms. In particular **dust mites** are the main cause of an important number of **allergies**, and their presence is quite massive in the home environment, especially on mattresses, pillows and carpets.

The average life cycle for a house dust mite is 2-3 weeks. Adults can live up to 4 months and females can lay up to 50 eggs. House dust mites are present indoors wherever humans live and are a nesting species that prefers a dark, warm, and humid climate and they adapt easily in domestic spaces. Their presence varies considerably and can fluctuate from 10 to 1000, and even more, for each gram of powder.

Dust mites live mainly **in mattresses, cushions and sofas**. They live well at temperatures above 20 ° C; however, they manage to survive, albeit with difficulty, even at lower temperatures.

To avoid their spread it is important to reduce the humidity rate, however for example through a dehumidifier and ventilating the rooms during the hours less damp. It is also useful: frequently replace pillowcases, sheets and sofa covers, change pillow at least every two years, put cushions under the rays of the sun and wash in the washing machine at least once a month. Remember that body moisture allows the proliferation of mites, while the heat of the sun and the action of hot water are sanitizing.



FIELDS OF USE

Living areas: kitchens, canopies, cellars, bedrooms, wardrobes, shutters, curtains, room corners, under furniture, deposits, near kennels, dog and cat shelters, gateways. **In public and community places:** hospitals, schools, shops, deposits and warehouses, sports, recreational and coexistence venues in general. **Resort areas:** hotels, campsites, farmhouses, hostels, etc. **Production areas:** food processing areas, mills, warehouses, deposits, canteens, restaurants, dairies, slaughterhouses, retail premises, packaging plants, supermarkets. **Composting plants:** sewage plant, sewers, landfills and waste disposal areas. **Means of transport:** transports for people, animals or goods. **Port and airport areas, means of transport and railway stations.** **In green areas:** such as hedges, gardens, tree-lined avenues.

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COMPOSITION:

100 grammes of product contain: Geraniol g 0,5 (5 g/l), Coformulants q.s. up to g 100
Contains: Geraniol, *Eucalyptus Globulus* leaf oil, *Cymbopogon Winterianus* herb oil.

CODICI EAN:

8032958824614
8032958824621
8032958824638
8032958824645

CONFEZIONI:

500 mL bottle - 6 pieces per box
1 L bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

600 bottles / 100 boxes
480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks



NO FLYING INSECTS^{PLUS}

ZANZARA^{tigre}

**CONCENTRATED
PRODUCT**

REPELLENT



Liquid insect repellent for environmental treatments of civil and zootechnical areas. Professional use.

No Flying Insects is a **repellent against tiger mosquitoes**, concentrated with geraniol, active substance of plant origin. Our product is **authorised by the Italian Ministry of Health** (*Registration No. 20767*). The active ingredient Geraniol works in synergy with the molecular complexes of Lemongrass and Eucalyptus to boost the efficacy of the product.

NATURE PROTECTS US

- Water solution
- Repellent against tiger mosquitoes
- With geraniol
- To be diluted
- Effective up to 24 hours
- With a nice fragrance



**TIGER
MOSQUITO**

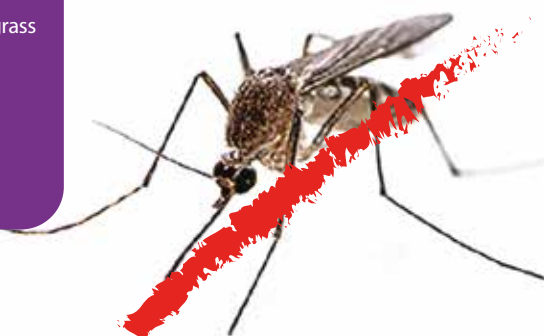


PRESIDIO MEDICO CHIRURGICO



GERANIOL

- Active substance of plant origin
- Naturally present in many plants such as geranium, lemongrass and palmarosa
- Recognized as an effective insect repellent
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INFORMATION - MOSQUITOES

It is important to know habits and life cycle of mosquitoes to protect yourself.

Some types of mosquitoes, such as the tiger mosquito, have **adapted to urban environment** and are active during the day, while others are more present at night and live mainly in **rural environment**.

The life of mosquitoes is linked to the presence of water, here they lay their eggs and once hatched the larvae will become adult insects.

An inspection, an intervention of a **pest-controller** and / or the **use of specific equipment** are essential for a proper and effective protection from mosquitoes.



FIELDS OF USE

Urban, out-door and in-door, public and community spaces: green spaces, gardens, swimming pools, parks, tree-lined paths, hedges, verandas, hospital facilities, stores, schools, warehouses and storehouses, sport, recreational and cohabitation spaces. **Holiday resorts and farms, hotel and campsites,** etc. **Productive areas:** food processing areas, warehouses, depots, canteens, restaurants, cheese factories, slaughterhouses, shops, packaging plants, supermarkets. **Agricultural areas and settlements:** zootechnical breeding, dunghills, animal shelters, cowsheds, barn, pigsty, henhouses, stables, transit areas for the animals, mills. **Composting plants, sewage plants, sewers, landfills and waste storage. Port and airport areas, means of transport and railway station.**

HOW TO USE:

Shake well before use. Dilute the product according the following proportion and the corresponding purpose:

Against mosquitoes: diluted 1:5 with effect up to 24 hours

Against red mites: diluted 1:4 with effect up to 24 hours

Spray at a distance of about 30 cm where needed using 15-20 ml of the solution for m². 1 liter of product covers an area of 59 m². For the use in green spaces: uniformly cover the vegetation avoiding the trickling. The product must not be applied directly on animals.

COMPOSITION:

100 grammi di prodotto contengono: Geraniolo g 2 (20 g/l), Coformulanti q.b. a g 100
Contains: Geraniol, *Eucalyptus Globulus* leaf oil, *Cymbopogon Winterianus* herb oil.

EAN CODE:

8032958824683
8032958824669
8032958824676

PACKAGES:

1 L bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks

NO FLYING INSECTS **PLUS**

RED *mi.te* REPELLENT

**CONCENTRATED
PRODUCT**



Insetto-repellente liquido per trattamenti ambientali ad uso civile e zootecnico. Per uso professionale.

No Flying Insects is a **repellent against red mites**, concentrated with geraniol, active substance of plant origin. Our product is **authorised by the Italian Ministry of Health** (*Registration No. 20767*). The active ingredient Geraniol works in synergy with the molecular complexes of Lemongrass and Eucalyptus to boost the efficacy of the product.

La NATURA ci PROTEGGE

- Water solution
- Repellent against tiger mosquitoes
- With geraniol
- To be diluted
- Effective up to 24 hours
- With a nice fragrance



RED
MITES





GERANIOL

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- Naturally present in many plants such as geranium, lemongrass and palmarosa
- Recognized as an effective insect repellent
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- With a nice fragrance

QUALITY - SAFETY - ENVIRONMENT



INFORMATION - DERMANYSSUS GALLINAE

The *dermanyssus gallinae* is one of the most dangerous ectoparasites that can infest poultry farms and has been implicated as a vector of several major pathogenic diseases. Despite its common names, it has a wide range of hosts including several species of wild birds and mammals including humans. His presence can cause heavy repercussions on the productivity of laying hens, those attacked can show irritation, irritability and in some cases anemia that can lead to death.

It feeds with the blood of poultry because the female needs protein to mature the eggs. They live hidden in the cracks of the structures and only during the night they visit their prey.

To prevent their presence, it is important to maintain the environments where the animals live in optimal sanitary conditions and with a regular maintenance and cleaning.



FIELDS OF USE

Urban, out-door and in-door, public and community spaces. Productive areas: food processing areas, warehouses, depots, canteens, restaurants, cheese factories, slaughterhouses, shops, packaging plants, supermarkets. **Agricultural areas and settlements:** zootechnical breeding, dunghills, animal shelters, cowsheds, barn, pigsty, henhouses, stables, transit areas for the animals, mills.

HOW TO USE:

Shake well before use. Dilute the product according the following proportion and the corresponding purpose:

Against mosquitoes: diluted 1:5 with effect up to 24 hours

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Spray at a distance of about 30 cm where needed using 15-20 ml of the solution for m². 1 liter of product covers an area of 59 m². For the use in green spaces: uniformly cover the vegetation avoiding the trickling. The product must not be applied directly on animals.

COMPOSITION:

100 grammi di prodotto contengono: Geraniolo g 2 (20 g/l), Coformulanti q.b. a g 100
 Contains: Geraniol, *Eucalyptus Globulus* leaf oil, *Cymbopogon Winterianus* herb oil.

EAN CODE:

8032958824713
 8032958824690
 8032958824706

PACKAGES:

1 L bottle - 6 pieces per box
 5 L Tank - 2 pieces per box
 10 L Tank

PALLET:

480 bottles / 80 boxes
 120 tanks / 60 boxes
 60 tanks

The result of **Union B.I.O.® scientific research**
The **power of plant extracts** and **innovation**



MOSCA

NaturalStop

Flies repellent



Natural composition with synergistic plant extracts boosted by an extract of the Olive tree.

- Product rich in plant extracts with natural repellent properties to create **a physical barrier against flies**
- **Ready to use** and **easy to use**
- Ideal for farms, stables, during trekking, in private homes, in public places, etc.
- Useful for animal welfare **in the farms**, to contribute to greater productivity
- Safe for adults and children, not toxic for animals
- Propellant-free, CFC-free
- **Eco-friendly**

MOSCA Natural Stop

creates a physical barrier and
releases a pleasant fragrance in the environment



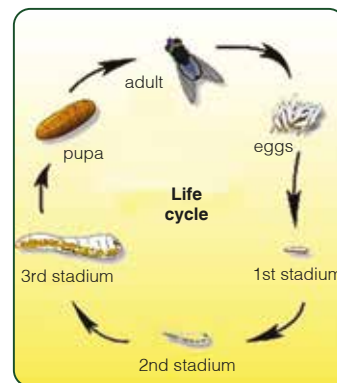
16



INFORMATION - FLIES

With the term "fly", we usually indicate a generic insect of the order Diptera meaning two wings. They are medium sized insects (5-10 mm), with a well-visible sucking apparatus. At the moment, we know about 3500 species, easily adaptive to different climates, except for very cold climates. Its presence is really massive in livestock farms and waste collection centre.

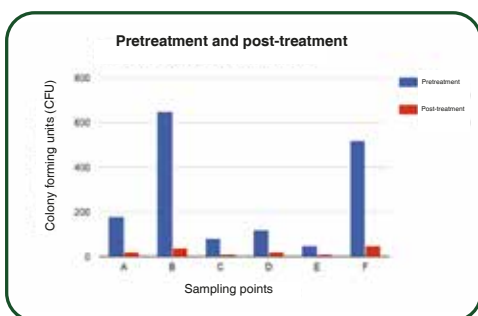
The **Domestic Fly** (*Musca domestica*) present in our homes is characterized by great fertility (7 to 15 generations per year). Because of their incessant activity, there is a high possibility of contamination.



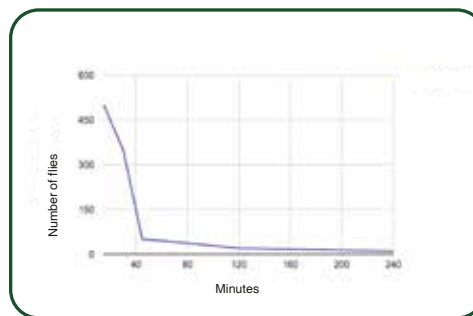
Natural? We can!

The complete biological cycle consists of four stages of development (EGG-LARVA-PUPA-ADULT) and a variable length depending on the habitat, humidity and temperature. Flies are guided by visual and olfactory sensations. They are active during the day and they need temperatures above 10 °C. They prefer spaces where pathogenic germs proliferate and due to their continuous leakage and to their system of regurgitation (contemporary to the meal), they are **dangerous carriers of infections** for humans and animals.

Microbiological analysis



Presence of flies



A regular use of the product with atomizers, improves the whole biosecurity. The graphs show a significant reduction of the number of flies and consequently of the microbial growth.



OLEA EUROPAEA



EUCALYPTUS GLOBULUS



MENTHA ARVENSIS

HOW TO USE:

Ready to use. In case of wide areas, spray with a nebulizer or special machines. Ideal for livestock, farms shelters, stables, kennels, public places, houses, etc. It is recommended to apply the product at least for three consecutive days and then when needed. 1 L of product is sufficient for 20 square meters.

COMPOSITION:

100 grammes contain: Geraniol g 0,5 (5 g/l), Coformulants as needed for g 100

Aqua, Geraniol, *Eucalyptus globulus* leaf oil, *Mentha arvensis* herb oil, *Olea europaea* leaf extract, *Ocimum basilicum* oil.

Store in a cool and dry place avoiding direct sunlight and heat sources.

EAN CODE:

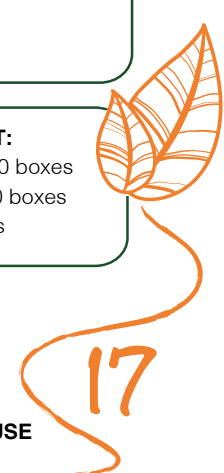
8032958822443
8032958822450
8032958822467

PACKAGES:

1 L Bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks



The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and innovation



Rodi

NaturalStop

Mice and Rats repellent



Natural composition with synergistic plant extracts boosted by an extract of the Olive tree.

- Product rich in plant extracts with natural repellent properties to create **a physical barrier against mice and rats**
- **Ideal for large areas**, such as warehouses, food storage, roof, electric cabins, engines, stables and any other community space
- **Preventive phases**: applied cyclically, it creates an unfavourable environment for nesting
- Not toxic for pets, courtly animals or wildlife
- Safe for adults, children and their curiosity!
- It does not leave residues and does not create bioaccumulation issues
- Safe and non-toxic for vegetation*¹ and groundwater
- Immediately **active**
- Non-staining*²
- **Eco-friendly**

A **physical barrier**
to free the area
from **their presence!**

18

*¹ do not distribute directly on the vegetation during the warmest hours of the day

*² it is recommended to treat a small area to make sure it does not stain



INFORMATION - RODENTS

Rodents are the largest mammal order in terms of number of species. They are characterized by a small size and a short breeding cycle, this last feature determines their success. Mice and rats belong to this order.

The common **house mouse** (*Mus musculus*) has an adult body length of 65 and 120 mm and a tail length of about 60/100 mm. They eat vegetal products such as seeds, roots, leaves and stems, insects, depending on what is available. The fieldmouse is similar to the house mouse, it lives in rural areas and country houses.

Rats are in the genus *Rattus*. The most known species are the Brown rat (*Rattus norvegicus*) and the Roof rat (*Rattus rattus*), both larger in size than mice. Rats and mice live around human habitation and they can be carriers of dangerous infections.

The constant scientific research of Union B.I.O.[®] and the natural power of plant extracts allow the formulation of a natural and eco-friendly product to create a barrier to mice and rats.



HOW TO USE:

Oil-Gel: Ready to use. Spread as it is delimiting the interested area, both for outdoor or indoor spaces. It is recommended to apply the product to dissuade the rodent every 15 days or after heavy rainfall. 1 L is sufficient for about 20 linear meters or for 18/20 holes.

Liquido: ready to use. Its special composition is ideal to spray the product on the roof beams, in the electric cabins, engine, etc.

To prevent the infestation, spread the product once a month.

COMPOSITION:

100 grammes contain: Geraniol g 0,5 (5 g/l), Coformulants as needed for g 100

Oil-Gel: Aqua, Geraniol, *Urtica dioica* leaf dry extract, *Olea europaea* leaf extract, Xanthan gum, *Pelargonium graveolens* oil, *Capsicum annuum* fruit extract, *Piper nigrum* fruit oil, *Allium sativum* bulb oil.

Liquid: Aqua, Geraniol, *Urtica dioica* leaf dry extract, *Olea europaea* leaf extract, *Pelargonium graveolens* oil, *Capsicum annuum* fruit extract, *Piper nigrum* fruit oil, *Allium sativum* bulb oil.

Store in a cool and dry place avoiding direct sunlight and heat sources.



**OLEA
EUROPAEA**



**ALLIUM
SATIVUM**



**PELARGONIUM
GRAVEOLENS**

EAN CODE:

Liq 8032958822184
Liq 8032958822191
Liq 8032958820180

Oil 8032958820173
Oil 8032958822153
Oil 8032958822160

PACKAGES:

1 L Bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

1 L Bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks



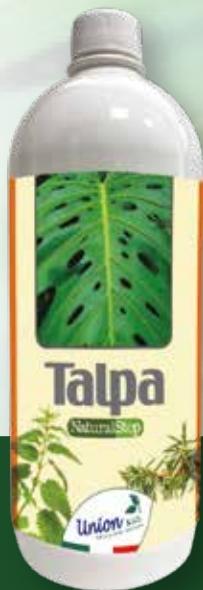
The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and **innovation**



Talpa

Natural Stop

Moles repellent



Natural composition with synergistic plant extracts boosted by an extract of the Olive tree.

- **Oil-gel** product rich in plant extracts with natural repellent properties to create **a physical barrier against moles**
- Safe and non-toxic for vegetation*¹ and groundwater
- **Ready to use**
- **Not toxic for pets, courtyard animals or wildlife**
- **It does not leave residues**
- **Immediately active**
- **Eco-friendly**
- Not a food bait

The use of **TALPA Natural Stop**
creates a physical barrier
to get rid of mole tunnels and molehills in your garden!

20

*¹ do not distribute directly on the vegetation during the warmest hours of the day



INFORMATION - MOLES

Moles (*Talpa europaea*) are mammals of the Talpidae family. They are insectivorous and solitary creatures and spend most of their lives alone and underground in their tunnels. They eat small insects, worms, larvae, snails, etc. The breeding season is generally February through May. Moles dig holes and underground tunnels and they can be a complete nuisance in the garden or land. They burrow under the lawns and raise mole hills, which can undermine plant roots and inadvertently **cause damage or death**.

The deeper tunnels are located at 15-25 cm and become nest chamber for the baby-moles, while the superficial tunnels cover a very large surface and are hunting grounds. The central part is a large vertical room called well, and at the bottom there is the nest. From here, two communicating horizontal tunnels start. Moles see very poorly and they use their sense of smell to find their prey.

TALPA Natural Stop makes slippery and inaccessible their usual path, useful to avoid the colonization of the treated areas.

Natural? We can!

Moles play a beneficial role in the management of soil and the control of undesirable grubs and insects. By tunneling and shifting soil particles, moles permit better aeration of the soil, however their tunneling may uproot plants and flowers causing plant damage and death.



**OLEA
EUROPAEA**



URTICA DIOICA



**PELARGONIUM
GRAVEOLENS**

HOW TO USE:

Ready to use. Pour directly on the holes and spread around the affected area. It is recommended to apply the product every 15 days or after heavy rainfall. 1 L is sufficient for about 20 linear meters or for 18/20 holes.

COMPOSITION:

100 grammes contain: Geraniol g 0,5 (5 g/l), Coformulants as needed for g 100

Aqua, *Urtica dioica* leaf dry extract, *Olea europaea* leaf extract, Xanthan gum, Geraniol, *Piper nigrum* fruit oil, *Pelargonium graveolens* oil, *Capsicum annuum* fruit extract, *Allium sativum* bulb oil.

Store in a cool and dry place avoiding direct sunlight and heat sources.

EAN CODE:

8032958821910
8032958822061
8032958822078

PACKAGES:

1 L Bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks



The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and innovation



REPTIL

NaturalStop

Snakes and Lizards repellent



Natural composition with synergistic plant extracts boosted by an extract of the Olive tree.

- **Oil-gel** product rich in plant extracts with natural repellent properties to create **a physical barrier against snakes and lizards**
- **Preventive phase:** a periodical application avoids hibernation in the treated areas and near the houses
- Not toxic for pets, courtyard animals or wildlife
- Safe for adults, children and their curiosity!
- It does not leave residues and does not create Bioaccumulation issues
- Safe and non-toxic for vegetation*¹ and groundwater
- Long-lasting effect
- Eco-friendly
- Not a food bait

The use of **REPTIL Natural Stop** makes slippery and inaccessible their usual path and they move away

22

¹ do not distribute directly on the vegetation during the warmest hours of the day



INFORMATION - REPTILES

Reptiles are a class of vertebrates that comprehend crocodiles, alligators, turtles, lizards and snakes. They lay their eggs on mainland.

Their name comes from the latin word “*reptilis*” that means “**slithering**”.

Reptiles are equipped with a **highly developed sensory device** that allows them to easily locate the prey. Smaller species feed on insects and the larger ones, normally living in tropical countries, can kill and even eat an antelope. Undoubtedly, the secret weapon of reptiles is their sensory apparatus. These animals possess a deep sense of smell thanks to Jacobson's organ, a special sensory area in the oral cavity. This organ is useful to the reptile to perceive the surrounding environment: by extracting the bifurcated language, they can capture the molecules and return them to the Jacobson organ, which transforms them into electrical signals to be sent to the brain for processing.

Thermo-sensitive dimples also allow reptiles to find warm-blooded prey even in full darkness. They can even detect very low temperature differences.

Our spaces can become habitual spaces for **snakes and lizards**, especially during spring and summer when they are active after months of hibernation. Though you don't love their presence you can still respect them without hurting them and just keeping them away.

Natural? We can!



**OLEA
EUROPAEA**



**JUNIPERUS
COMMUNIS**



**LAVANDULA
HYBRIDA**



**SALVIA
LAVANDULIFOLIA**

HOW TO USE:

Spread the product over all the areas to be treated following a zig zag path (1 L is enough for 15-20 metres). It is recommended to apply the product every 15 days, or after heavy rainfall.

COMPOSITION:

100 grammes contain: Geraniol g 0,5 (5 g/l), Coformulants as needed for g 100

Aqua, Xanthan gum, Geraniol, *Olea europaea* leaf extract, *Juniperus communis* fruit oil, *Lavandula hybrida* grosso herb oil, *Salvia lavandulifolia* herb oil, *Origanum vulgare* oil, *Allium sativum* bulb oil.

Store in a cool and dry place avoiding direct sunlight and heat sources.

EAN CODE:

8032958821927
8032958822092
8032958822108

PACKAGES:

1 L Bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks



The result of **Union B.I.O.® scientific research**
The **power of plant extracts** and **innovation**



Bed bugs (*Cimex lectularius*) repellent

Natural composition with synergistic plant extracts boosted by an extract of the Olive tree.

- Product rich in plant extracts with natural repellent properties to create **a physical barrier against bed bugs**
- **Ideal** for houses, hotels, hostels, hospitals and schools
- Spray on travel bags and luggages to prevent
- Alcohol-free
- **With a nice fragrance**
- **Non-staining**
- It does not leave residues
- Not toxic for pets, courtyard animals or wildlife
- Safe for adults, children and their curiosity!
- **Eco-friendly**

Science and **Nature** together to protect
domestic and public spaces
from bed bugs.



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INFORMATION - BED BUGS

Bed bugs can be hard to find, as they are small in size and they hide easily. They are bloodsucking insects of the Cimicidae family.

Common up to the 1900s, in the 1940s they seemed disappeared. However, nowadays they returned to our homes. Adults measure about 6 mm and are red-brown. They multiply rapidly and colonize all spaces: sofas, beds, cushions, curtains, upholsteries, etc., but the mattress remains the ideal place for feeding. They can generate serious allergic reactions.

At first, proceed on the cleaning front. The fabrics must be regularly washed at high temperatures and vacuumed.

Applying a natural product such as **Bed Bugs Natural Stop** does not allow the infestation.

WHERE TO LOOK FOR:

- Mattresses
- Headboards
- Rugs
- Carpets
- Bedside table
- Curtains
- Furnitures
- Cracks in the walls
- Electric outlets
- Shelves
- Windows
- Cracks in the doors



WHAT TO LOOK FOR :



Black small spots can be excrement of bedbugs.



Look for exoskeletons of the various nymphal stages around the bed



With a torch search in the cracks of the bed frame, in the cracks of the walls and of the floor.



**OLEA
EUROPAEA**



**EUCALYPTUS
GLOBULUS**



**PELARGONIUM
GRAVEOLENS**

MODO D'USO:

Spray on the interested area. It is recommended to apply the product at least for three consecutive days and then when needed.

COMPOSIZIONE:

100 grammes contain: Geraniol g 0,5 (5 g/l), Coformulants as needed for g 100

Aqua, Geraniol, *Olea europaea* leaf extract, *Eucalyptus globulus* leaf oil, *Cymbopogon winterianus* herb oil, *Urtica dioica* leaf dry extract, *Pelargonium graveolens* oil

Store in a cool and dry place avoiding direct sunlight and heat sources.

EAN CODE:

8032958823563
8032958823624
8032958823631

PACKAGES:

1 L Bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks

The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and **innovation**



ACTIVE Zootecnia



Vegetable matrix sanitizing detergent formulated with synergistic plant extracts boosted by an extract of the Olive tree.

- Ready-to-use natural product made up of natural essential oils, such as **Citronella** and **Tea Tree**
- **Ideal** for sheep farming, cattle, pigs and poultry farms
- **It reduces the mephitic exhalations** such as ammonia, indole and scatole
- With a nice fragrance
- Safe and non-toxic for vegetation and groundwater
- Not toxic for pets, courtyard animals or wildlife

A healthy environment reduces the stress of the animal
and avoids a physiological decline
and allows increasing production of milk and meat.



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INFORMATION - ACTIVE ZOOTECHNIA

The welfare of the animals intended for food production depends mainly on the management practices. There are many factors that can affect the quality of their lives including the **hygiene of the stables and resting areas**. A lack of hygiene, the health of the animal can be compromised as well as the quality of the production.

Active Zootecnia is a natural detergent helpful to maintain a full healthy condition to let the animals live safely and in harmony in their spaces.

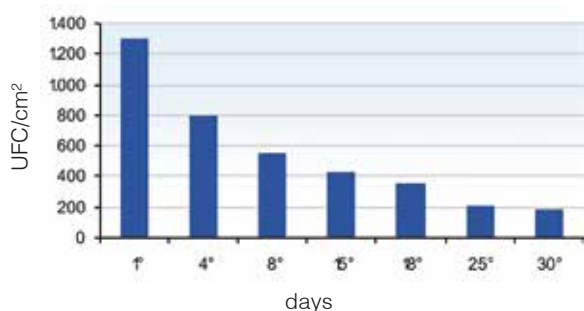
Natural? We can!

The Farm Animal Welfare Council (FAWC) in 1979:

1. Freedom from hunger and thirst, by ready access to fresh water and a diet to maintain full health and vigour
2. Freedom from discomfort, by providing an appropriate environment including shelter and comfortable resting area
3. Freedom from pain, injury or disease, by prevention or rapid diagnosis and treatment
4. Freedom to express normal behaviour, by providing sufficient space, proper facilities and company of the animal's own kind
5. Freedom from fear and distress, by ensuring conditions and treatment which avoid mental suffering



Staphylococcus aureus



Molds



After the use of Active ACTIVE ZOOTECHNIA, it is immediately evident a decrease in the presence of *S. aureus* and molds.

MODO D'USO:

Spray the product with usual nebulizer or special machines on the walls and bedding.

Poultry: apply for 3 consecutive days and once a week as maintenance.

Cattle: the first month distribute twice a week, then once a week.

Pigs: apply for 3 consecutive days and 2 times a week as maintenance.

Sheep: pour into a walkway at the entrance of the stable.

COMPOSIZIONE:

Reg. CE 648/2004 - Contains: <5% Non ionic surfactants. Preservatives: Potassium sorbate. Perfume. Allergens: Geraniol, Citronellol, Limonene.

CONTIENE:

Aqua, *Olea europaea* leaf extract, *Cymbopogon winterianus* herb oil, *Eucalyptus globulus* leaf oil, *Melaleuca alternifolia* leaf oil

Store in a cool and dry place avoiding direct sunlight and heat sources.



**OLEA
EUROPAEA**



**CYMOPOGON
WINTERIANUS**



**MELALEUCA
ALTERNIFOLIA**

EAN CODE:

8032958822986
8032958822993
8032958820500

PACKAGES:

5 L Tank - 2 pieces per box
10 L Tank
25 L Tank

PALLET:

120 tanks / 60 boxes
60 tanks
24 tanks



The result of **Union B.I.O.®** scientific research
The **power of plant extracts** and **innovation**



TURBO



active



Natural bio-stabiliser detergent with synergistic plant extracts, boosted by an extract of the Olive tree.

- **Vegetal-matrix** product
- **It decreases the biofilm** in plumbings and sewers
- Useful in **slurry pit**
- **It removes bad smells**
- To get rid of **drain flies** and **cockroaches**
- **Safe** for humans, animals and eco-friendly

TURBO Active is useful for **drains** (toilet, sinks, showers, manholes, etc.) at home, cafés, restaurants, public areas, recreational spaces, community and health places, and to treat **slurry pit**.



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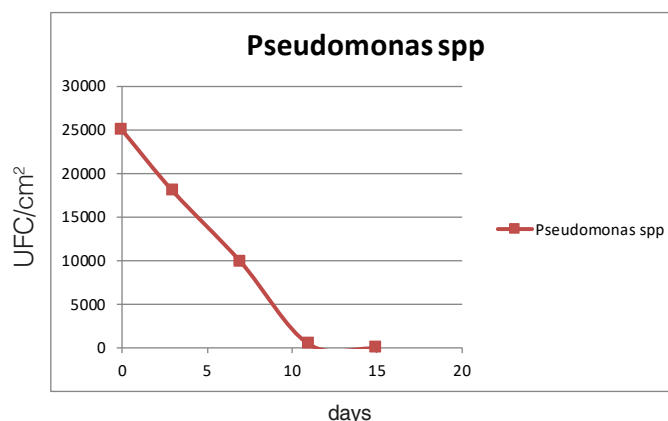
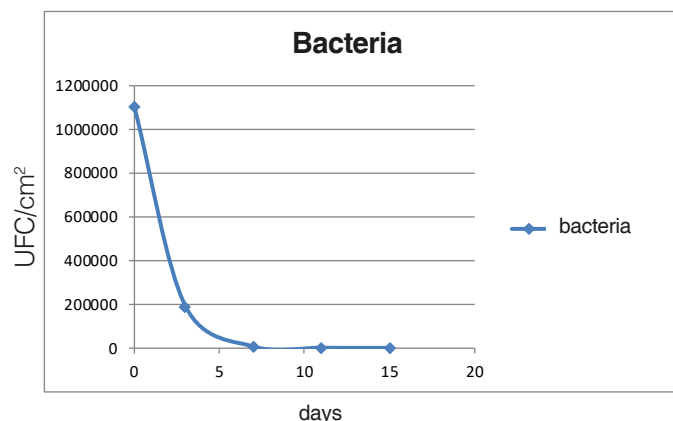
INFORMAZIONI - TURBO ACTIVE

TURBO ACTIVE is a vegetal matrix bio-stabiliser to achieve biological stability, or the necessary condition for the aerobic microbiological process, capable of slowing down the processes of degradation and fermentability of the organic mass.

The plant extracts of the composition help to stimulate the microbial community by increasing their ability to digest solids with an evident decrease of foul-smelling gases.

The reduction of the biofilm in the exhaust pipes implies that the drains are clear of drain flies and cockroaches.

In **slurry pit**, the use of **TURBO ACTIVE** reduces significantly the harmful and the foul-smelling gases produced during the storage, increases the organic substance able to reduce solids, helps to remove and prevent the presence of encrustations and balances the microbial population triggering the bacterial digestive process.



The use of **TURBO ACTIVE** in the sewers highlights a major reduction in bacteria and Pseudomonas spp, pointing out the performance of the product to get rid the plumbings from the biofilm.



**OLEA
EUROPAEA**



**CYBOPOGON
WINTERIANUS**



**EUCALYPTUS
GLOBULUS**

HOW TO USE:

Sinks and showers: pour 50 mL of product in addition to 50 mL of water

WC and drains: pour 100 mL of product as it is

Do the treatments preferably in the evening for three consecutive days, and continuing once a week for three weeks. As maintenance, apply the product every ten days for a month and then every fifteen days for the following months. Slurry pit: dilute 1 L of product in 4 L of water for every 20 squared metres

COMPOSIZIONE:

Reg. CE 648/2004 - Contains: <5% Non ionic surfactants. Preservatives: Potassium sorbate. Perfume. Allergens: Geraniol, Citronellol, Limonene.

CONTIENE:

Olea europaea leaf extract, *Eucalyptus globulus* leaf oil, *Cymbopogon winterianus* herb oil, *Rosmarinus officinalis* flower oil

Store in a cool and dry place avoiding direct sunlight and heat sources.

EAN CODE:

8032958824003
8032958823020
8032958823037

PACKAGES:

1 L Bottle - 6 pieces per box
5 L Tank - 2 pieces per box
10 L Tank

PALLET:

480 bottles / 80 boxes
120 tanks / 60 boxes
60 tanks



Our research has the aim to find practical and specific solutions. We aspire to develop products inspired by life for the well-being of animals and respect for the environment.

Humans, animals and nature are the witnesses of an uninterrupted evolution and they represent an expression of a dynamic interaction of a collective project. Union B.I.O. products are inspired by the Nature, plants traits and the human wit. Our commitment reflects on the transparency of our label.

The information in the catalogue are not absolute and do not represent therapeutic indications, they are studied for the animal well-being, according to our world view. The law establishes high standards to preserve our health and the planet.

The scientific research is our vocation as well as the animal care.



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