INSECTICIDES IN ALL THE FORMULATIONS, EQUIPMENTS AND COMPLEMENTS FOR THE CONTROL OF THE INSECTS AND OTHER ARTHROPODS

...low environmental impact and effectiveness with an eye of respect for the formulations water based and with “green” solvent, for contemplated and localized interventions. The only way to realize disinfestations “friends”.

INSECTICIDES
Liquid mosquitoes film
100% ECO-FRIENDLY
What Is Aquatain AMF?
Aquatain AMF is a unique silicone-based liquid for mosquito control. It spreads rapidly across the water surface, forming a very thin film.

How Does It Work?
Aquatain AMF has a physical action rather than a chemical action – no toxic chemicals!
The thin film on the water surface kills immature mosquito stages and disrupts the mosquito lifecycle.
A very simple principle, but a highly effective product.
The first new active constituent to be registered for mosquito control in Australia for many years.

How Is Aquatain AMF Applied?
No spray equipment required!
Simply squeeze a few drops on to the water surface (1mL per square meter of water surface). Repeat application in 4 weeks.

Where Can It Be Used?
Aquatain AMF is for use in standing water such as gutters, ponds, blocked drains, water tanks, pot plants, buckets, septic tanks and old tyres.

How Effective Is It?
Trials by Health Ministries and other authorities around the world have confirmed its effectiveness in killing mosquito larvae and pupae.

<table>
<thead>
<tr>
<th>ITEM</th>
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<tbody>
<tr>
<td>AQUATAIN AMF</td>
<td>1-274-1001-1</td>
<td>Bottle of 1 L in box of 6 pcs.</td>
</tr>
<tr>
<td>AQUATAIN AMF</td>
<td>1-274-1001-10</td>
<td>Tank of 10 L</td>
</tr>
</tbody>
</table>

Watch Out Mozzies!
A NEW GENERATION PRODUCT!
Aquatain AMF is a silicone based liquid which self-spreads across the surface of standing water, forming a very thin film and disrupting the mosquito breeding cycle for up to 4 weeks. Aquatain AMF does not contain any toxic chemicals; it does not kill mosquitoes by chemical or biological means.

The product has a physical action on immature stages of mosquitoes which live in the water: the very low surface tension of the silicone film prevents the pupae and larvae from attaching themselves to the surface to breathe, causing them to drown. In addition, trials have shown that the low surface tension also impacts on egg laying: female mosquitoes do not deposit their eggs on water which has been treated with Aquatain AMF, but many of them drown while attempting to do so.

This is a summary of the trials which have been conducted around the world:

- 100% mortality of pupae of all mosquito species within 3 hours
- 100% mortality of L3, L4 larvae in 1-3 days
- 94% mortality of L1, L2 larvae in about 10 days (aedes are generally slower to die than anopheles or culex)
- 100% suppression of pupation
- No eggs laid on Aquatain AMF
- Many females drown while attempting to lay eggs on AMF film
- The product is effective for 4 weeks on the surface.

Silicones are an ideal for this purpose, as they are inert, non-toxic and non-flammable. They are widely used in consumer and industrial applications including building materials, lubricants, shampoo, sealants, medical devices, contact lenses, and even in food applications.

Furthermore, they degrade in the environment to compounds of silicone dioxide, carbon dioxide and water. They do not bioaccumulate i.e., they do not build up in the bodies of living organisms, because they are too large to pass through cell membranes.

The silicone used in Aquatain AMF is the most commonly used silicone in the world, and it meets the US EPA (Environmental Protection Agency, USA) polymer exemption rule and the NICNAS (National Industrial Chemicals Notification and Assessment Scheme, Australia) polymers of low concern criteria, among others.
Insecticides concentrate
FOCUS

DELTAMETHRIN: THE BEST ACTIVE INGREDIENT

BLEU DELTA containing 2.5% of the active isomer of the pyrethroid deltamethrin which make it more effective. Due to the unique synthesis process of Deltamethrin, BLEU LINE can guarantee the purity and maximum effectiveness of BLEU DELTA.

BLEU DELTA: the strongest, always.

BLEU DELTA is a suspension concentrate containing Deltamethrin, a photostable pyrethroid (25.00 g - Formulation and adjuvants distilled in 1 Ltr water). BLEU DELTA acts primarily by contact but also by ingestion. Micro-crystals Deltamethrin suspended in an aqueous solution gives this formulation efficacy and continuing exceptional action. The special formula of BLEU DELTA also provides prolonged protection and good resistance to water washout broad spectrum Insecticide BLEU DELTA demonstrates its optimal action on various insects with a high knock down power,used for treatment of residual surface and within the immediate vicinity of public buildings including restaurants, hospitals, homes, industrial warehouses, against crawling insects (cockroaches, fleas, ticks,...) and Flying (flies, mosquitoes...)

USAGE
BLEU DELTA is designed for spraying on porous surfaces. It is mandatory diluted in water and applied using a compression sprayer or other device to obtain a spray-wetting.
Crawling Insects: 50 ml/ 5 ltrs/ 100 m². Flying Insects: 25 ml/ 5 ltrs/ 100 m².

IMPACT ON THE ENVIRONMENT
LEI Low Environmental products defines BLEU LINE’s contribution to global sustainability. BLEU LINE recognizes the importance of responsibility for our planet and environment.

BLEU LINE GROUP and its partner CHEMIA are pleased and proud to announce that after years of review, by Directive 2011/81/EU of 20 September 2011, the European Committee has approved the DELTAMETHRIN active substance for product-type 18 (Insecticides) which has thus been included in the so-called Annex I.

The inclusion date was 1 October 2013. Beyond that date, within the territory of the European Union and of those countries which have accepted and implement the Biocide Regulation, only DELTAMETHRIN active substance coming from approved source may be used.
At present BLEU LINE with CHEMIA is between the few company in Europe that have an approved DELTAMETHRIN dossier. The approval of the active substance is valid for 10 years, that is, until 30 September 2023.
Blattoxur Line
Liquid insecticides and gel insecticides
**Blattoxur® - Ant Gel**

**COMPOSITION:**
100 g product content:
- Acetamiprid: 2 g
- Appetizing and baiting substances q.s. for 100 g

**CHARACTERISTICS:**
- BLATTOXUR ANT GEL is a bait gel formulated as gel ready to use for the control of the ants.
- The product acts by contact and ingestion on the nervous transmission at the postsynaptic level.
- The ants, due to the highly palpable and attractive substances, come into contact with the gel and the gel sticks to their cuticle; it follows the diffusion of the insecticide in the whole colony that is entirely eliminated within 24 hours.

**DOSES OF USE:**
- Apply the product on the passages of the ants, along the walls, in the cracks, to the entrance of their refuges.
- When necessary to repeat the application after 15-20 days, or with more frequency if gel has been completely eaten.

**DOSES AND USE**
- Apply drops of product the size of a lentil in cracks, wall crevices, bathroom or other warm and damp places: 2/3 drops sq m
- Kitchen and places where food is prepared: 2/3 drops sq m
- Other places: drops per 10-15 sqm
- Bathroom and warm, damp places: 2/3 drops sqm
- Other places: drops per 10-15 sqm

**FIELD OF EMPLOYMENT**
- Bait gel formulated as ready to use for the control of the ants.
- For the control of the ants, to avoid to apply the product on absorbent surfaces and where can easily be eliminated.
- BLATTOXUR ANT GEL is a bait gel formulated as gel ready to use for the control of the ants.

**Blattoxur® - Cockroach gel**

**COMPOSITION:**
- Technical Piperonyl Butoxide 5%
- Technical Esbiothrin 2%
- Technical Deltamethrin 1%

**CHARACTERISTICS:**
- BLATTOXUR™ GEL is a ready-to-use gel bait against all species of beetles (Blattella germanica, Periplaneta americana, Blatta orientalis, Supella longipalpa, Polyphaga aegyptiaca).
- The product acts by contact and ingestion on the nervous transmission at the postsynaptic level.
- The ants, due to the highly palpable and attractive substances, come into contact with the gel and the gel sticks to their cuticle; it follows the diffusion of the insecticide in the whole colony that is entirely eliminated within 24 hours.

**DOSES OF USE:**
- Apply the product on the passages of the ants, along the walls, in the cracks, to the entrance of their refuges.
- When necessary to repeat the application after 15-20 days, or with more frequency if gel has been completely eaten.

**DOSES AND USE**
- Other places: 2/4 drops per 10-15 sqm
- Bathroom and warm, damp places: 2/3 drops sqm
- Other places: drops per 10-15 sqm
- Bathroom and warm, damp places: 2/3 drops sqm
- Other places: drops per 10-15 sqm

**FIELD OF EMPLOYMENT**
- Bait gel formulated as ready to use for the control of the ants.
- For the control of the ants, to avoid to apply the product on absorbent surfaces and where can easily be eliminated.
- BLATTOXUR ANT GEL is a bait gel formulated as gel ready to use for the control of the ants.

**Blattoxur® Forte**

**COMPOSITION:**
- Technical Tetramethrin 13.5%
- Technical Permethrin 6.8%
- Piperonyl Butoxide 67.8%

**DOSES OF APPLICATION**
- Flying insects: to dilute 50 mL of BLATTOXUR® FORTE in 10 L water.
- Avoiding the dripping.
- Creeping insects: to dilute 100 mL of BLATTOXUR® FORTE in 10 L water.
- Avoiding the dripping.

**FIELD OF EMPLOYMENT**
- Insecticides for plants: to dilute 50 mL of BLATTOXUR® FORTE in 10 L water.
- Avoiding the dripping.
- Building areas: to dilute 100 mL of BLATTOXUR® FORTE in 10 L water.
- Avoiding the dripping.

**Blattoxur® Delta**

**COMPOSITION:**
- Technical Deltamethrin 1%
- Technical Esbiothrin 2%
- Technical Piperonyl Butoxide 5%

**DOSES OF APPLICATION**
- For treatments in external areas with atomizers: 1%-3%
- Flying and creeping insects: 0,75% - 1,5%
- For treatments in livestock areas, animal shelters or kennels, remove the animals during the entire duration of treatment and wait until the solution has dried on the surfaces before reintroducing them in the area.
Insecticides concentrate
**Etofenblu**

Liquid emulsifiable insecticide for civil and domestic use. Against winged and crawling insects

**COMPOSITION**

100 g product content:
- Cypermethrin 92% (40/60 cis/trans): 10.25 g (94.3 g/l)
- Coformulants: q.s. for 100 g

**INSTRUCTIONS AND DOSAGE**

CIPEX 10 E is used mixed with water upon usage and spread using manual pressure pumps or motorised mist blowers at the ratio of 1 litre per 15 sq.m. with the following dosage:

**Winged insects:** Indoors: Dilute at the ratio of 0.5%-1% (50-100 cc per 10 L water) according to the degree of infestation; spread over surfaces (walls, floors, shutters, etc.). The highest dosage indicated is preferably used against flies.

**Flying insects:** Indoor: Use a 0.5-1% (50-100 ml in 10 L of water) dilution on external walls of buildings, squares, under hedges and bushes, etc. While treating green areas, remember to apply the product uniformly over the vegetation avoiding any dripping.

**Crawling insects:** Indoor: Dilute at the ratio of 0.5%-1% (50-100 cc per 10 L water) according to the degree of infestation and type of insect concerned; spread over surfaces, cracks, skirting boards, etc. The highest dosage indicated is preferably used against cockroaches.

**Outdoors:** Use at the ratio of 0.5%-1% (50-100 cc per 10 L water) on external walls of buildings, on sidewalks, squares, etc. CIPEX 10 E may also be used at the ratio of 2% with petroleum or glycol based solvents (200 ml in 10 L solvent) for nebulisation in confined environments with cool or warm mist blowers.

**ITEM** | **CODE** | **PACK**
---|---|---
CIPEX 10 E | 1-30-13-20X500 | Bottle of 500 mL in box of 20 pcs.
CIPEX 10 E | 1-30-13-1X12 | Bottle of 1 L in box of 12 pcs.
CIPEX 10 E | 1-30-13-1X10 | Bottle of 10 L

**Deadyna®**

Liquid pyrethroid insecticide in aqueous microemulsion. For domestic and civil use

**COMPOSITION**

100 g of product content
- Pure cypermethrin (cis/trans 40/60) 6.85 g (69.2 g/l)
- Pure tetramethrin 1.25 g (12.6 g/l)
- Coformulants q.s. for 100 g

**INSTRUCTIONS AND DOSAGE**

DEADYNA is to be mixed with water when used and sprinkled by hand operated pressure pumps or motor sprayers at the ratio of 1 L per 10-15- sq.m. surface, at the following doses:

**Winged insects:** Indoors: Dilute the insecticide to 0.5%-1% (50-100 L/L of water) according to the pest entity, and apply over surfaces (walls, horizontal surfaces, blinds, etc.).

**Flying insects:** Indoors: Use a 0.5-1% (50-100 ml in 10 L of water) dilution on external walls of buildings, squares, under hedges and bushes, etc. The highest dosage indicated is preferably used against flies.

**Crawling insects:** Indoors: Use a 0.5-1% (50-100 ml in 10 L of water) dilution according to the pest type and entity, and apply over surfaces, cracks, skirting boards, etc. The highest dosage is recommended for cockroach control.

**Outdoors:** Use at the ratio of 0.5%-1% (50-100 ml in 10 L of water) dilution on external walls, sidewalks, squares, etc. DEADYNA can be mixed at 3-5% with glycol-based solvents (300 ml in 10 L of solvent) when used with hot or cold mist blowers at the ratio of 0.5-1 L of solution for surface hectare, or 0.5-2 L for 1,000 m² of environment.

**ITEM** | **CODE** | **PACK**
---|---|---
DEADYNA® | 1-30-16-1X6 | Bottle of 1 L in box of 6 pcs.
DEADYNA® | 1-30-16-1X10 | Tank of 10 L

**Etofenblu**

Liquid insecticide concentrate in watery microemulsion with ample range of action - for the control of creeping and flying insects

**COMPOSITION**

100 grams contain:
- Pure Etofenprox 12 g (123.6 g/l)
- Piperonyl Butoxide 20 g (206.0 g/l)
- Coformulants and water q.s. for 100 g

**METHOD AND DOSAGES**

ETOAFENBLU is used spray after dilution in water, by means of pressure pumps or spray guns using 1 L of solution per 10 square m, at a dose of 0.5 - 1.5% (50-150 ml/10 L of water) in relation to the parasite and to control the degree of infestation. We recommend using the solution prepared by the day, as descri-
**Flubex® 7 EC Flow**

**COMPOSITION**
100 g product content:
- Diflubenzuron: 7 g (72.1 g/l)
- Coformulants: q.s. for 100 g

**INSTRUCTIONS AND DOSAGE**
FLUBEX 7 EC Flow must be further diluted using the quantities of product listed below in such water volumes as to cover the infested water surfaces evenly. The solution thus prepared must be applied using sprinklers where insect breeding grounds are more likely to develop such as lakes, stagnant waters, swamps, ditches, and canal banks, sewers, water drains, damp places in general.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CODE</th>
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<tbody>
<tr>
<td>FLUBEX® 7 EC FLOW</td>
<td>1-1-171-1X5</td>
<td>Tank of 5 L</td>
</tr>
</tbody>
</table>

**Flubex® 15 Flow**

**COMPOSITION**
100 g product content:
- Pure Diflubenzuron: 15 g (161 g/l)
- Coformulants: q.s. for 100 g

**INSTRUCTIONS AND DOSAGE**
Mosquito larvae control - Clear waters: 17–35 mL each 1,000 sq.m. of water surface.
Polluted waters or waters with high organic content: 35–70 mL each 1,000 sq.m. of water surface.
Lower dosages must be used when the water depth is equal to or more than 0.5 m, whereas higher dosages must be used when the water depth is equal to or more than 1 meter.
Closed hydraulic systems (sumps, basement window wells, storm drains, grids, etc.): 7 mL/cubic meter of polluted water.
Manholes (40x40x40 cm) with water depth from 10 to 20 cm: 0.15 mL of product.
Fly larvae control - Treatments of heaps of manure and organic substances: 35 – 70 mL /10 sq.m. Apply the product with 2-5 L of water at least every 10 sq.m., in order to allow the even solution penetration into 5-10 cm at least of the treated substrate. Perform the first treatment after the first flies show up and the subsequent ones when the slurry heap has increased of more than 10 cm.
Use lower dosages in case of small fly larvae pest and in closed systems. Use higher doses in case of large fly larvae pest and in open systems.

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<tbody>
<tr>
<td>FLUBEX® 15 FLOW</td>
<td>1-1-166-1X6</td>
<td>1 Liter bottle in boxes of 6 pcs.</td>
</tr>
<tr>
<td>FLUBEX® 15 FLOW</td>
<td>1-1-166-1X5</td>
<td>5 Liter tank in boxes of 4 cans</td>
</tr>
</tbody>
</table>

**Flubex® Tablets**

**COMPOSITION**
100 g product content:
- Pure Diflubenzuron: 2 g
- Coformulants: q.s. for 100 g

**INSTRUCTIONS AND DOSAGE**
FLUBEX TABLETS are used in areas that are particularly subject to larvae colonization, such as stagnant or running waters, i.e. drains, ponds, gutters, puddles, rice-field waters, purifiers, flowerpot saucers, tires, fountains and small pools or like closed hydraulic systems, i.e. culverts, septic and purifiers’ tank, and more generally, any area where water stagnates.

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<tbody>
<tr>
<td>FLUBEX® TABLETS</td>
<td>1-1-173-1X10</td>
<td>Bucket of 10 kg 5000 tablets</td>
</tr>
<tr>
<td>FLUBEX® TABLETS</td>
<td>1-1-173-1X2</td>
<td>Bucket of 2 kg 1000 tablets</td>
</tr>
<tr>
<td>FLUBEX® TABLETS</td>
<td>1-1-173-100X50</td>
<td>Bottle of 100 tablets in box of 50 pcs.</td>
</tr>
<tr>
<td>FLUBEX® TABLETS</td>
<td>1-1-173-10X100</td>
<td>Bottle of 10 tablets in box of 100 pcs.</td>
</tr>
</tbody>
</table>

When the water appears to be more polluted or stagnating, the formulation must be used in the highest quantity; the recommended dosage is the following:

- against mosquitoes, black flies and chironomids: Use 40/80 mL of FLUBEX 7 EC Flow in the quantity of water suitable for the type of equipment over 1000 sq.m. of surface to be disinfested.
- against flies: spray the product over waste deposits, dung-heaps or any other polluted surface; in this case, the solution must contain 40/60 mL FLUBEX 7 EC Flow for 100 L water, making sure that the solution penetrates as deep and evenly as possible into the infested heaps. 100 L of the above solution can be used to treat a surface of 40 sq.m..

Repeat disinfestation operations as described above at least every 3 weeks.

The formulation is harmless for useful insects; therefore, prevention treatment is recommended in order to act on insect eggs too.
WHO IS THE BIGGEST KILLER ON THE PLANET?

One Million Deaths Every Year
The most deadly animal in the world is the mosquito. It might seem impossible that something so miniscule can kill so many people, but it’s true.
According to the World Health Organization, mosquito bites result in the deaths of more than 1 million people every year.
The majority of these deaths are due to malaria.
The World Health Organization estimates that between 300 and 500 million cases of malaria occur each year and a child dies from malaria every 30 seconds.

The Female Anopheles is to Blame
It’s not the mosquito itself that kills, but rather a parasite the mosquito carries. Not all mosquitoes carry the malaria parasite only females of the Anopheles genus. You’ll find the Anopheles all over the world, with the exception of Antarctica.
The mosquito transmits malaria after biting an infected person and then passes along the parasite to the next person it nibbles on.
Malaria is a blood-transmitted disease, which means you can’t contract it from casual contact with another person.
Because it’s transmitted through the blood, you can contract it from a contaminated transfusion or needle. But mosquitoes are primarily to blame for the spread of malaria infection.

GREEN LARV TABLETS are insecticide in effervescent tablets dissolved in water. Its action is mainly by contact and ingestion. The product is used to combat the larvae of mosquitoes (Culex pipiens, Anopheles and Aedes albopictus) and chironomids that breed in water or moist environments.
Its action doesn’t allow the formation of the external protective tissues during molting, blocking the complete formation and consequently causing death.
GREEN LARV TABLETS possesses a good residual activity at the doses indicated in the cases where it is applied on the water that doesn’t undergo a fast replacement.

DOSAGE AND METHOD OF USE
GREEN LARV could be used in areas where there is a particular settlement of larvae in stagnant water or as moving as ditches, ponds, canals, scrubbers, tires, fountains and small ponds and closed hydraulic systems such as manholes, septic tanks and sewage treatment tanks and generally where there is stagnant water is not removable.
Its use is simple, just distribute the tablets on the surfaces of water in motion, semiferme or stagnant, especially in cases in which it may be difficult, the distribution of products in liquid or powder.
Depending on the pollution the recommended doses are:
- To clear waters: one 2 grams every 250-500 liters of water
- For waters with high load of organic material (marshes, ponds, etc.): one tablet every 2 grams 100-200 liters of water
- Manholes: 1 tablet.
For a good result intervene every 3-4 weeks.

INSECTICIDE EFFERVESCENT TABLETS FOR THE FIGHT LOCALIZED ON THE OUTBREAKS OF LARVAE AND PUPAE OF MOSQUITOES AND CHIRONOMIDS

COMPOSITION
100g of product contain:
Diflubenzuron pure 6 g
Coformulants to 100 g

Each tablet contains 2 grams:
0.12 g pure diflubenzuron
Coformulants to 2 grams

CHARACTERISTICS
GREEN LARV TABLETS is an insecticide in effervescent tablets dissolved in water. Its action is mainly by contact and ingestion. The product is used to combat the larvae of mosquitoes (Culex pipiens, Anopheles and Aedes albopictus) and chironomids that breed in water or moist environments.
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- Manholes: 1 tablet.
For a good result intervene every 3-4 weeks.
Insecticide ready to use for thermal foggers
While pure oil-or glycol formulations applied through a thermal fogger lead automatically to a white visible fog are water based formulations applied through the same fogging nozzle less visible.

The reason is that water is only partly vaporised by the thermal energy and only this vaporised portion of the water will lead to a visible condensed fog. The not vaporised portion forms bigger droplet sizes which are required for a heavier fog with less drift away loss and better sedimentation of the pesticide on the target surface (leaves of plants and crops or the skin of a bigger insect e.g. locusts).

Because water forms bigger droplet sizes and oil (and glycol) smaller sizes the supplement of these components offer a multitude of adjustment possibilities to achieve a desired droplet spectrum (observe the table above).

The visibility of the fog is important to supervise optically the spreading of the applied chemical and to direct the active substances on the limited area (surface) where the pest is located. But the visibility of the produced fog is not a indicator for its biological efficacy! Both the water and oil based formulations are comparable effective.

In some cases a less or invisible fog is preferred e.g. in public facilities, restaurants, kitchens, hotels, mainly in enclosed spaces. But also for open air applications more and more a less or even invisible aerosol is preferred e.g. in public health domains to prevent that people are irritated or shocked or only that the traffic or any organised event are not disturbed during fog application.

Water based fogging formulations with a water portion of more than 80% are the solution for this requirement.
Microencapsulated insecticide
**Microfly**

**MICROENCAPSULATED LIQUID INSECTICIDE FOR CIVIL AND DOMESTIC USE AGAINST FLYING AN CREEPING INSECTS**

**COMPOSITION**
100 g product content:
- Pure cypermethrin (cis/trans 40/60) 10.00 g (106 g/l)
- Coformulants and water q.s. for 100 g

**INSTRUCTIONS AND DOSAGE**
Shake the product well before using. Fill half container with water, then, while keeping stirring, add the required product. Add water to reach the level. The solution must be sprinkled on the surfaces and not in the air.

- **Against flies and mosquitoes:**
  - The product must be water diluted at the ratio of 0.5-1% (500-1,000 mL each 100 L water), according to the infestation degree, then it must be sprinkled over wall surfaces, windows, windowsills, and green areas, where insects stop and hide.

- **Against cockroaches, beetles, and creeping insects:**
  - Sprinkle by pressure pump on those places where they usually live, like cracks, fissures, skirting boards, floor edges, toilets, etc.
  - The initial dilution must be of 2% at least (20 g per water L). If the application has been made correctly, the product residual action is long.
  - Do not wash the treated surfaces, and repeat the treatment at 1% (10 g per water L).

**FOCUS**
**LONG LASTING EFFECT ON ANY SURFACE**

The effectiveness and residual effect of normal emulsion insecticides can be seriously reduced by the type of surface where it is applied. Porous and absorbent surfaces will drastically reduce the availability of active ingredients. Microfly is less affected by the type of surface because the microcapsules are not absorbed. The microcapsules protect the active ingredients from light, moisture and high temperatures, improving its effectiveness even in difficult conditions, as is often the case, for example when used outside, and on hot, damp or oily surfaces.

Tests results indicate that Microfly may still be effective after more than 2 months, even if applied on porous surfaces.

**MICROCAPSULES**

The Cypermethrin is in microcapsules, which means they are coated with a fine porous polymer film with the following effect:
- The Cypermethrin contained in the microcapsules is protected against decay.
- The semi-permeable membrane on the microcapsules prevents the release of the active ingredients, as long as they are surrounded by water.
- Microfly microcapsules become active only after they have been sprayed into the environment.
- After spraying, the water evaporates and the active ingredients are slowly released.
- The microcapsules deflate until all the active ingredients are released.
Insecticides

FOCUS

MUSCABLU FLY BAIT CONTROLS NUISANCE FLIES IN OR AROUND HORSE STABLES AND LIVESTOCK FACILITIES

- Ready to use as scatter bait, but also easy to use in bait stations or on dishes
- Starts killing nuisance flies in as little as 180 seconds
- Its yellow pellets contain fly attractants to lure flies
- Fast acting, effective, convenient and versatile
- Contains Denatonium Benzoate, a bittering substance to help prevent accidental ingestion by children and animals
- Use indoors or outdoors

HOW TO APPLY MUSCABLU FLY BAIT

- Scatter in areas where housefly numbers are excessive or where housefly breeding occurs

- Apply at a rate of 25 grams/10 m²
- Place MUSCABLU in bait stations or on dishes out of animal access at least 120 cm. above the ground, in a motionless site where flies rest.

GRANULAR FLY BAIT WITH SEXUAL AND FOOD ATTRACTANTS

COMPOSITION

100 g product content:
- Acetamiprid 0.50 g
- (Z)-9-tricosene 0.06 g
- Co-formulants q.s. for 100 g

Characteristics

With both alimentary and sexual attractant characteristics, MUSCABLU has an excellent attractant effectiveness for flies. MUSCABLU contains Acetamiprid, a new generation neonicotinoid based active principle.

It acts by ingestion and contact on the central nervous system in the post-synaptic area. Flies stop eating and die quickly. The product contains denatonium benzoate, a bittering substance that prevents the accidental ingestion by animals and children.

Application fields

MUSCABLU is a granular insecticidal bait to control a wide range of fly species.

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Italian Ministry of Health registration n° 19550

MUSCABLU

GRANULAR FLY BAIT WITH SEXUAL AND FOOD ATTRACTANTS

COMPOSITION

100 g product content:
- Acetamiprid 0.50 g
- (Z)-9-tricosene 0.06 g
- Co-formulants q.s. for 100 g

Characteristics

With both alimentary and sexual attractant characteristics, MUSCABLU has an excellent attractant effectiveness for flies. MUSCABLU contains Acetamiprid, a new generation neonicotinoid based active principle.

It acts by ingestion and contact on the central nervous system in the post-synaptic area. Flies stop eating and die quickly. The product contains denatonium benzoate, a bittering substance that prevents the accidental ingestion by animals and children.

Application fields

MUSCABLU is a granular insecticidal bait to control a wide range of fly species.

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Instructions and dosage

MUSCABLU must be spread over surfaces where flies usually feed. Bait renewal frequency varies from one to six weeks according to the pest level and intensity.

MUSCABLU can be used both to prevent fly emergences and to reduce fly population.

Spread the bait directly from the package or from any other suitable container. Use MUSCABLU in and around those areas where flies represent a problem.

Choose those places where flies usually stop, transit or represent a particular problem (around windows, in bathing areas, near dunghills), and avoid draughts as much as possible. In case it is not possible to spread the bait on the floor, pour it on a small piece of cardboard, on a plastic dish, or on any other similar container. The product can be used in presence of animals.

Distribute 25 g of MUSCABLU per 10m² surface, without piling it up.

Position the baits out of children and pets’ reach. In case the attractant power of the baits is insufficient (especially in case of problem pests), pour water or milk on them in order to make them more luring.
Insecticide powder
Packaged in a convenient ready-to-use puffer pack, NEODUST Insecticidal dust can be used on a variety of pests including Ants and Wasps. The fine formulation of NEODUST Insecticidal dust ensures maximum flowability allowing the dust to carry further into cracks, crevices and voids to get where the pests are. The active constituent in NEODUST insecticidal dust, permethrin together with fine dust particle size provides effective flush out where required and fast knock-down when necessary.

Approved for use indoors and outdoors, NEODUST insecticidal dust can be used on floor coverings, upholstered furniture, mattresses and because the product is dry it can be used around electrical appliances. The ready to use puffer pack means the product can be applied directly from the container. For ants apply the powder along runs, on and around nests. If ants are invading domestic premises apply powder to routes by which they enter.

When treating for European wasps treat at night wherever possible to avoid being stung. Wear protective clothing to prevent being stung. Apply powder through entrance holes.
Insecticide concentrate
Permex 22 E®

**Water base concentrated liquid insecticide for civil and domestic use. Against flies, mosquitoes, cockroaches and other insects**

**COMPOSITION**

100 g product content:
- Permethrin tec. 92% cis/trans 25/75: 12.36 g (127.3 g/l)
- Tetramethrin: 1.64 g (16.9 g/l)
- Piperonyl Butoxide: 6.40 g (65.9 g/l)
- Coformulants: q.s. for 100 g

**METHOD AND DOSAGES**

PERMEX 22 E® must be mixed with water when used, at the ratio of 0.3-1% (30-100 mL for 10 L water) according to the pest extent. One litre of this solution is suitable for 10-15 sq.m. surface and may be used with any type of standard nebuliser: manual pressure pumps, motorised atomizers. For treatment of green areas, remember to apply uniformly over the vegetation avoiding any dripping.

PERMEX 22 E® may also be used at the ratio of 3% with glycol based solvents (300 mL in 10 L solvent) with cool or warm mist blowers for nebulisation in confined environments, at the ratio of 0.5-1 L of solution per hectare of surface or 0.5-2 L per 1,000 cubic metres in case of a room.

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**Pertex**

**Emulsifiable concentrate based on synergized pyrethroids, insecticide for sanitary use against arthropods of sanitary importance**

**COMPOSITION**

100 g product content:
- Permethrin (93%) (cis/trans 25/75): 3 g (30.6 g/l)
- Piperonyl Butoxide (80%): 3 g (30.6 g/l)
- Emulsifiers and water: q.s. for 100 g

**INSTRUCTIONS AND APPLICATIONS**

Against arthropods of sanitary importance (see flies, mosquitoes, etc.)

PERTEX is used over surfaces at a final dilution ratio of 2% (100 cc concentrated product in 5 L water).

The dosage to be used varies according to the type of parasite. However, the following indications should be followed:
- In case of stables infested by ticks, tabanidae, the product must be used at the ratio of 2% (2 L in 100 L water) and dispersed using a low pressure pump;
- In case of hen-houses infested by ticks, or other bird parasites, the product must be used at the ratio of 1% (100 cc in 10 L water) and dispersed using a low pressure pump;
- The product must be used in animal living environments with no animal present.

Shake well before use. Dilute the product always upon usage and dispose of it after 8-10 hours.
Pyrethrin insecticides
**Piretrox™**

**Concentrated emulsion.**

**COMPOSITION**

Pure Pyrethrins 1.25%

Adulticide insecticide liquid high knock-down power. Applicable in areas with ornamental plants, in the food industry and livestock sector.

**DOSAGE:**

- Flying and crawling insects: 2%-3%
- With ULV or thermal fogger: 4%-5%

**PIRETROX™ RTU**

Ready to use liquid insecticide based on natural Pyrethrum. Ideal for the food industry.

**COMPOSITION**

100 g of product contains:
- Pyrethrum extract 50 g - 0.6 %
- PBO - 3%

**FEATURES**

PIRETROX™ RTU, based exclusively on natural Pyrethrum and synergistic, has been specially studied for food industries environments and has the following features:

- odorless, non-staining
- highly effective against a wide range of flying and crawling insects
- fast: the action of the insecticide PIRETROX™ RTU, is withering; in a few minutes treated areas will be free from insects
- due to natural Pyrethrum, does not induce resistance phenomena or addictive.

Due to its characteristics, PIRETROX™ RTU, can be used with sa-

**HOW TO USE**

- Wall treatment: spray PIRETROX™ RTU, on walls, floors, gaps, cracks, pipes or other places where insects can hide at a dose of 1 liter per 100 m² surface, using ULV apparatus or another mechanical sprayer or manual.
- On these surfaces will settle an invisible veil of insecticide that will quickly eliminate all crawling insects.
- Treatment for spraying into: 1 liter of spray into the air.

PIRETROX™ RTU, effective against flies, mosquitoes, moths and any other insect the steering wheel.

**ITEM** | **CODE** | **PACK**
--- | --- | ---
PIRETROX™ | 1-1-182-1x6 | Bottle of 1 L in box of 6 pcs.
PIRETROX™ | 1-1-183-1x10 | Tank of 10 L

**Piretrox™ Spray**

The aerosol based on pyrethrum, synergised with PBO- PIRETROX SPRAY, is the most advanced system for environments free of flying insects and bacteria.

An insecticide based on natural pyrethrum which has the characteristic of preventing reinfestation, thanks to the power of the repellent quality, typically found in natural pyrethrins.

Does not contain solvents or mineral propellants that harm the ozone.

**COMPOSITION**

100 g product content
- Pyrethrum Extract 50% - 3%
- Piperonyl Butoxide tec - 12%

**SUITABLE FOR ANY PUBLIC ENVIRONMENT!**

The aerosol spray can is designed to be inserted in the appropriate dispenser model AD270S, which automatically dispenses a micro-dose of product at timed intervals programmable.

The automatic machine must be placed at a minimum height of mt. 2.20 and in a location free from architectural barriers so that the product can be spread uniformly in the environment.

Each aerosol spray can with a spout prevents the settlement of flies and other flying insects, covering an area of about 80 square meters (200 cube meters) even with doors and windows open and has a range of at least 30 days uninterrupted.

**ITEM** | **CODE** | **PACK**
--- | --- | ---
PIRETROX™ SPRAY | 4-25-250X6 | Spray cans of 250 mL in boxes of 6 pcs.
Microencapsulated Pyrethrin-based Insecticides
Pyrethrum products are important tools for Pest Control Professionals. Pyrethrum controls a wide variety of insects in a wide range of situations which gives the professional flexibility to choose a pyrethrum formulation to fit the specific needs of each account or client.

Pyrethrum is a botanical insecticide which:
Acts Quickly – Acts with the insect’s nervous system to quickly knock it down and kill it.
Allowed in Sensitive Areas – Because it has a low toxicity profile for humans and mammals and a short residual activity, pyrethrum can be used in areas that other insecticide options can’t such as commercial kitchens, hospitals or schools.
Flushes and Excites – As the Pyrethrum works on the insects nervous systems the insects immediate response is to get excited and increase movement. Often pyrethrum products are used in conjunction with other insecticides to excite or flush insects out of hiding and into contact with the companion insecticide.

Just as the types of accounts that professional pest controls encounter are different, so are the options for types of pyrethrum products to use and ways to apply the products. Some of the types of applications include:

- Indoor Surface Sprays
- Indoor Space Sprays (Fog or ULV Spray
- In Indoor Food Areas
- In Indoor Non-Food Areas
- General Outdoor Premise Spray
- Pet Premises
- Transportation Equipment
- In Livestock, Dairy, and Poultry Facilities and Premises
**Tac Spray**

**READY-TO-USE INSECTICIDE, DELTAMETHRIN AND ESBIOTHRIN BASED WITH RESIDUAL AND KILLING ACTION - FOR DOMESTIC AND CIVIL USE**

**COMPOSITION**

- 100 g product content:
  - Deltamethrin tec. 0.0225 g
  - Esbiothrin tec. 0.3 g
  - Piperonyl Butoxide tec. 1.665 g
  - Coformulants q.s. for 100 g

**Dosage and use**

TAC SPRAY is mainly used in closed environments. Winged insects: Close doors and windows and spray the product over surfaces at a distance of approx. 25 cm, leaving it to act for approx. half an hour and then ventilate the room. To grant a long lasting action, spray the product at a distance of 5-10 cm from the wall or other surfaces where such insects are most commonly found (skirting boards, window-sills, under the sinks, infested facilities). Do not treat material or fabrics that will be in direct contact with people.

**TAC SPRAY may be efficiently used in:** Warehouses, foodstuff warehouses. Industrial sites in general. Homes, cellars, schools and kindergartens, gyms, changing rooms, barracks, cinemas, theatres, waiting rooms in stations and airports, means of transport. Touristic resorts, camping sites, cantines, hotels, restaurants. Hospitals, nursing homes, rest homes and any other environment where a disinestation treatment may become necessary.

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<thead>
<tr>
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<tr>
<td>TAC SPRAY</td>
<td>1-2-400-500X12</td>
<td>Aerosol Spray 500 mL in box of 12 pcs.</td>
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<tr>
<td>TAC SPRAY with straw</td>
<td>1-2-400-500X12-CA</td>
<td>Aerosol Spray 500 mL in box of 12 pcs.</td>
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**Tac Spray ONE SHOT**

**READY-TO-USE INSECTICIDE, DELTAMETHRIN AND ESBIOTHRIN BASED WITH RESIDUAL AND KILLING ACTION - FOR DOMESTIC AND CIVIL USE**

**COMPOSITION**

- 100 g product content:
  - Deltamethrin tec. 0.0225 g
  - Esbiothrin tec. 0.3 g
  - Piperonyl Butoxide tec. 1.665 g
  - Coformulants q.s. for 100 g

**Dosage and use**

For the 150 mL packaging (self-emptying): Keep people and animals away from the area to be treated; close doors and windows and use at the centre of the area with the distribution valve in vertical position. Press the distribution valve and leave the area.

**Distribution is complete in approx. 2-3 minutes. After 30-60 minutes, ventilate well the treated area.**

**The 150 mL can must be used in areas of approx. 45 sq.m. for treatment against crawling insects; for treatment against winged insects, the area must be up to 75-100 sq.m.**

**Do not use in areas smaller than 30 sq.m. If the need is to treat areas of greater surface and cubic capacity, increase the number of distribution valves proportionally and place them in various spots.**

**If necessary, repeat treatment depending on the type of insect, its development cycle and environmental conditions.**

**TAC SPRAY may be efficiently used in:** Warehouses, foodstuff warehouses. Industrial sites in general. Homes, cellars, schools and kindergartens, gyms, changing rooms, barracks, cinemas, theatres, waiting rooms in stations and airports, means of transport. Touristic resorts, camping sites, cantines, hotels, restaurants. Hospitals, nursing homes, rest homes and any other environment where a disinestation treatment may become necessary.

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<tr>
<td>TAC SPRAY ONE SHOT</td>
<td>1-2-400-150X24</td>
<td>Aerosol spray 150 mL</td>
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**Leica Vespa One**

**COMPOSITION**

- Transfluthrin 0.11% - 0.025% Cyfluthrin - PBO 0.2% - 0.5% extract of Eucalyptus

**CHARACTERISTICS**

- Recommended for use against all types of insects, wasps, hornets, flying insects, crawling insects, beetles, spiders, bugs and ants.
- Equipped with a special Super-Jet that sprays 4-5 metres
- Maximum effect combined with complete safety
- Indispensable for quick, careful disinestations
- Suitable for indoor and outdoor use

**Dose of use:** Ready to use

**Thanks to the special valve allows it to operate up to 5 m away from the nest.**

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<tr>
<td>VESPA ONE</td>
<td>1-31-750X12</td>
<td>Spray cans of 750 mL in boxes of 12 pcs.</td>
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