



Couch Calicos to

Parasite protection for



Protect against biting parasites



roaming Retrievers

the way pets live



Protect against heartworm and other worms

Vectra
3D for Dogs

Catego
for Cats

Vectra

MilbeGuard[®]
(milbemycin oxime)
Flavored Tablets

IMECTRO[®]
Chew
(ivermectin/pyrantel pamoate/
praziquantel)



Visit [CAPCVet.org](https://www.capcvet.org) for parasite prevalence maps, guidelines for prevention and treatment of parasites, and the annual forecasts for the parasite threat this year.

Visit [HeartwormSociety.org](https://www.heartwormsociety.org) for heartworm incidence maps, disease guidelines and clinic tools.



PARASITE PROTECTION BY PET LIFESTYLE



Protect against biting parasites



For active, social dogs - kills and repels fleas, ticks and mosquitoes, no bite required



For active cats - kills fleas and ticks, no bite required



For cats, dogs and multi-pet homes - kills fleas, no bite required



Protect against heartworm and other worms



For dogs - heartworm, hookworm, roundworm and whipworm protection
For cats - heartworm, hookworm and roundworm protection



For dogs in high-risk areas - heartworm, hookworm, roundworm and tapeworm protection

All products offer **once-monthly, easy-to-administer** protection.

A MESSAGE FOR VETERINARIANS

CEVA is thrilled to partner with you and your practice to provide effective parasite protection for cats and dogs, not simply based on species and spectrum, but on a more important and specific factor: patient lifestyle. Understanding the way clients' pets live - where they go, what they do, who and what is around them - is key in recommending the best parasite protection to fit their specific needs.



This in-office portfolio detailer is yours to use for quick reference of key information on all of our products, and also as a conversation guide for you and your clients. Each product page has an accompanying pet owner page to show your clients that there is parasite protection tailored to their pet's unique lifestyle, whether they're a social shorthair or a living room labradoodle.

Ask your CEVA sales representative about our clinic programs to provide more value to your clinic, staff and clients.

Vectra
3D[®] for Dogs

PARASITE PROTECTION FOR ACTIVE, SOCIAL DOGS



DO NOT USE ON CATS



Easy-to-administer applicator

Elongated, rounded tip makes application more comfortable for the pet and reaches the skin through the coat

Kills and repels fleas, ticks and mosquitoes quickly through contact - no biting required

Vectra 3D[®] for Dogs is best for use on dogs who have very active, social lifestyles, and who spend a fair amount of time outdoors, go to places outside of home, or are around other dogs and cats.

Vectra 3D[®] for Dogs is formulated for dogs only.

PERMETHRIN*

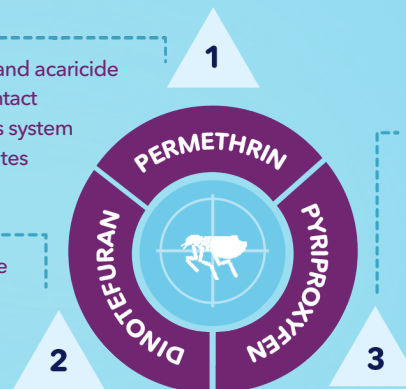
- Effective repellent and acaricide
- Repels through contact
- Targets the nervous system of arthropod parasites

DINOTEFURAN

- Fast-acting insecticide
- Kills through contact
- Knock-down effect
- Targets the nervous system of the insect

PYRIPROXYFEN

- Insect growth regulator
- Inhibits development of all flea life stages
- Photostable and long-lasting
- Targets the endocrine and reproductive systems of insects



Kills and repels for one month

FLEAS

- Kills and repels fleas fast - no bite required
- Begins reducing flea feeding in 5 minutes. Kills fleas in 4 hours on dogs. Reduced flea feeding means reduced likelihood of transmission of vector-borne disease.
- Proven treatment technology for flea infestations. Kills adult fleas and breaks the flea life cycle, preventing the development of immature fleas on dogs for 1 month
- Kills and repels fleas that may transmit bartonellosis and tapeworm disease
- Kills and repels fleas that may cause flea allergy dermatitis (FAD)

TICKS

- Kills and repels ticks - no bite required
- Repels ticks before they can attach to dogs. Kills all life stages of ticks.
- Kills and repels ticks that may transmit Lyme disease, Rocky Mountain Spotted Fever, babesiosis, ehrlichiosis, bartonellosis, hepatozoonosis and anaplasmosis

MOSQUITOES

- Kills and repels mosquitoes - no bite required
- Kills and repels mosquitoes that may transmit heartworm disease
- Kills and repels mosquitoes which may transmit West Nile virus
- Kills mosquitoes before they bite

LICE, MITES AND BITING & SAND FLIES

- Kills and repels lice which may cause pruritus, erythema, crusting and scaling
- Controls infestations of chewing lice on dogs
- Kills and repels mites (excluding mange mites) that may cause dandruff, alopecia and pruritus
- Kills and repels biting and sand flies, which may inflict irritating bites; prevents biting flies from blood feeding on dogs
- Kills and repels sand flies that may transmit Leishmaniosis

*Vectra 3D[®] for Dogs contains permethrin, so read the full product insert to learn what precautions clients with cats in the house should take when applying Vectra 3D[®] for Dogs on their dog each month

DOG PARK DACHSHUNDS TO BACKYARD BOXERS

Flea, tick and mosquito protection for active, social dogs

If your pooch loves the outdoors - whether it's the trail, lake, farm or just a stroll around the block - they need Vectra® 3D protection from the dangerous biting parasites that lurk all around them. It's pest protection for the way your pet lives.

Take home once-monthly protection from your vet's office today.



- **Waterproof after 24 hours - remains effective even after swimming or bathing**
- **Quick-drying, fragrance free, non-greasy**
- **Dosing options available for dogs 5 lbs and up that are at least 8 weeks of age**

Available in single doses and in 3 or 6 monthly dose packs



Easy-to-use topical applicator

- Long tip applies treatment through the fur, right to the skin
- Comfortable for your dog, easy for you

EFFECTIVE Kills AND repels fleas, ticks, mosquitoes and more
FAST Begins to stop fleas from biting in 5 minutes
NO BITE REQUIRED Minimizes the risk of infected parasites spreading disease and illness

30-day protection against



FLEAS



TICKS



MOSQUITOES

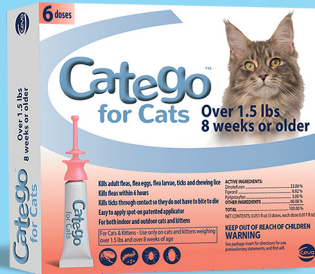


BITING AND SAND FLIES



Catego[®] for Cats

PARASITE PROTECTION FOR ACTIVE, SOCIAL CATS



Easy-to-administer applicator

Elongated, rounded tip makes application more comfortable for the pet and reaches the skin through the coat

Kills fleas, ticks and chewing lice through contact - no biting required

Catego[®] for Cats is best for use on cats with an active lifestyle. Whether they like to roam the neighborhood or just around the house, cats need specific protection. And since Catego[®] is tailored for both indoor and outdoor cats, it's a good choice for multi-cat households and cats who live in rural areas. Catego[®] is formulated specifically for cats.

FIPRONIL

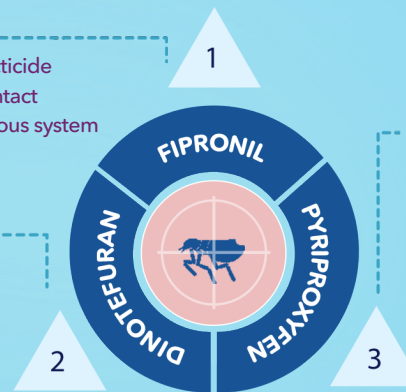
- Fast-acting insecticide
- Kills through contact
- Targets the nervous system of the insect

DINOTEFURAN

- Fast-acting insecticide
- Kills through contact
- Knock-down effect
- Targets the nervous system of the insect

PYRIPROXYFEN

- Insect growth regulator
- Inhibits development of all flea life stages
- Photostable and long-lasting
- Targets the endocrine and reproductive systems of insects



Kills through contact - no bite required

FLEAS

- Works fast, killing fleas on cats in 6 hours
- Kills fleas through contact. Fleas do not have to bite to die.
- Not only kills adult fleas, it breaks the flea lifecycle
- Proven formulation for flea infestations on cats. A single dose effectively stops flea infestation on cats and prevents reinfestation for 1 month.
- Kills fleas on cats that may cause flea allergy dermatitis (FAD) and anemia, and that may transmit *Rickettsia felis*, *Rickettsia typhi*, bartonellosis, tapeworm and tularemia



TICKS

- Kills ticks on cats through contact.
- Kills ticks on cats that may transmit Lyme disease, cytauxzoonosis, haemobartonellosis, ehrlichiosis, babesiosis, and anaplasmosis
- Kills all life stages of ticks on cats, including brown dog ticks (*Rhipicephalus sanguineus*), American dog ticks (*Dermacentor variabilis*), lone star ticks (*Amblyomma americanum*) and deer ticks (*Ixodes scapularis*)



LICE

- Easy, effective control of chewing lice on cats that lasts 1 month.

SOFA SHORT-HAIRS TO PATIO PERSIANS

Flea and tick protection for active, social cats

Whether your cat is a carpet cruiser, a fence walker or a little bit of both, they need flea and tick protection that's tailored to their lifestyle. Catego® is made specifically for cats so it's also ideal for multi-cat households. It's pest protection for the way your pet lives.

Take home once-monthly protection
from your vet's office today.



For cats over 1.5 lbs that
are at least 8 weeks of age

Available in single doses and
in 3 or 6 monthly dose packs



Easy-to-use topical applicator

- Long tip applies treatment through the fur, right to the skin
- Comfortable for your cat, easy for you

FAST Kills fleas on cats in 6 hours. Breaks the flea life cycle.

EFFECTIVE Kills fleas and ticks through contact

NO BITE REQUIRED Minimizes the risk of infected parasites spreading disease and illness

30-day protection against



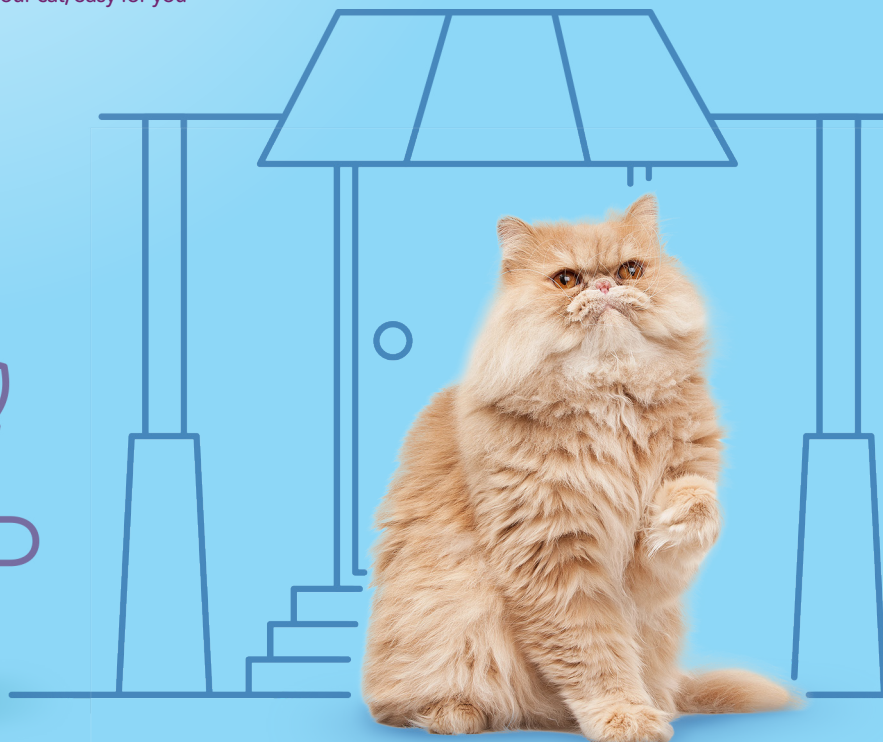
FLEAS



FLEA EGGS & LARVAE



TICKS



Vectra

PARASITE PROTECTION FOR DOGS AND CATS WHO LIVE WITH DOGS AND CATS

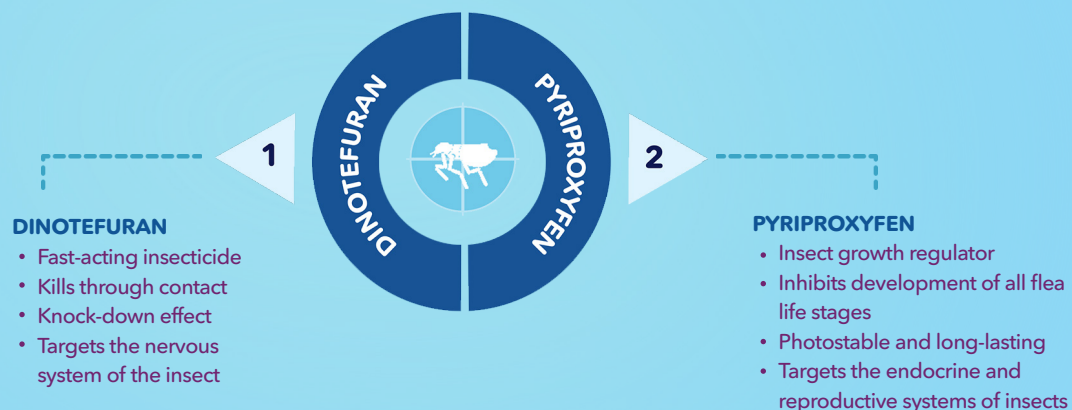


Easy-to-administer applicator

Elongated, rounded tip makes application more comfortable for the pet and reaches the skin through the coat

Kills fleas through contact - no biting required

Vectra® is best for pets who spend most of their time indoors at home. And since Vectra® is formulated for both cats and dogs, it's ideal for multi-pet households to keep them well protected without giving them more protection than they need.



Kills through contact - no bite required

FLEAS

- Works fast, killing fleas on dogs and cats in 6 hours
- Kills fleas through contact, Fleas do not have to bite to die.
- Not only kills adult fleas, it breaks the fleas lifecycle
- Proven formulation for flea infestations on dogs and cats. A single dose effectively stops flea infestation on dogs and cats and prevents reinfestation for 1 month.
- Kills flea on dogs and cats that may cause flea allergy dermatitis (FAD) and anemia, and that may transmit *Rickettsia felis*, *Rickettsia typhi*, bartonellosis, tapeworm and tularemia.



RECLUSIVE RAGDOLLS TO BEDROOM BOSTONS

Flea protection for indoor cats and dogs

If your dog or cat prefers the comforts of home, they probably need less protection than pets who spend more time outdoors or around other animals. Vectra® offers effective protection from flea bites and infestations, and it's a safe choice for multi-pet households. It's pest protection for the way your pet lives.

Take home once-monthly protection
from your vet's office today.

Dosing options available

-  For dogs 2.5-100 lbs that are at least 8 weeks of age
-  For cats 2 lbs and up that are at least 8 weeks of age

Available in single doses and
in 3 or 6 monthly dose packs

FAST Kills fleas on dogs and cats in 6 hours. Breaks the flea life cycle.

EFFECTIVE Kills fleas through contact

NO BITE REQUIRED Minimizes the risk of infected parasites spreading disease and illness

30-day protection against



FLEAS



FLEA EGGS & LARVAE



MilbeGuard[®]
(milbemycin oxime)
Flavored Tablets

HEARTWORM PREVENTION PLUS DE-WORMER FOR CATS AND DOGS



Prevents heartworm disease and controls and removes other worms

MilbeGuard[®] is a once-monthly beef-flavored* chew that is for use in dogs (4 weeks and older) and cats (6 weeks and older).



- Broad spectrum antiparasitic
- Ingredient used and trusted by veterinarians for over 30 years

Scan to view MilbeGuard[®]
Prescribing Information



In dogs and puppies, protects against



HEARTWORM



ROUNDWORM



HOOKWORM



WHIPWORM



Prevents heartworm disease
Controls adult hookworm
Removes and controls adult roundworm
and whipworm infections

In cats and kittens, protects against



HEARTWORM



ROUNDWORM



HOOKWORM



Prevents heartworm disease
Removes adult roundworms and
hookworms

Important Safety Information

Dogs and cats should be tested for heartworm prior to use. In a small percentage of treated dogs, digestive and neurologic side effects may occur. Safety in heartworm-positive cats has not been established. Safety in breeding, pregnant, and lactating queens and breeding toms has not been established. In cats, safety studies up to 10 times the label dose did not detect any adverse drug reactions.

Beef is not an ingredient in MilbeGuard[®]

ROAMING RUSSIANS TO GO-GO GERMANS


Affordable heartworm preventive and de-wormer for active, social cats and dogs


If your dog or cat likes to get outside and get up close with other animals - including birds and rodents - they need tailored protection from a variety of harmful worms. MilbeGuard® (milbemycin oxime) Flavored Tablets are pest protection for the way your pet lives.

Take home once-monthly protection from your vet's office today.



Dosing options available

 For dogs and puppies at least 2 lbs and 4 weeks and older

 For cats and kittens at least 1.5 lbs and 6 weeks and older

Available in single doses and in 6 monthly dose packs



In dogs and puppies:

Effective against



Heartworm



Hookworm



Roundworm



Whipworm



In cats and kittens:

Effective against



Heartworm



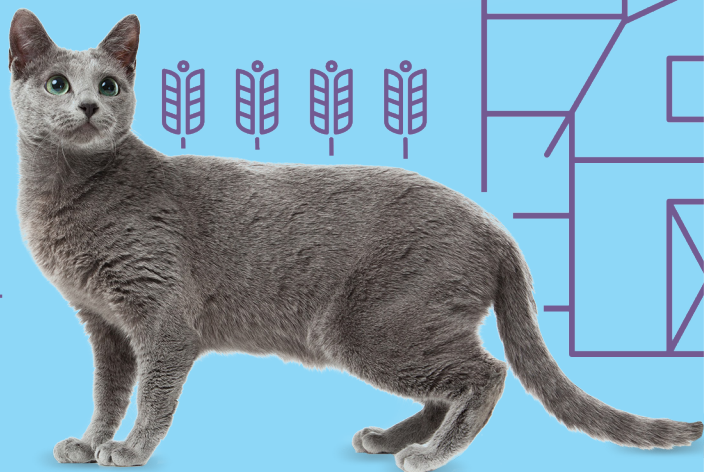
Hookworm



Roundworm

MilbeGuard® (milbemycin oxime) Flavored Tablets + Vectra® 3D for Dogs

Use both MilbeGuard® and Vectra® 3D for more comprehensive protection for your dog.



IMECTRO[®]
Chew
(ivermectin/pyrantel pamoate/
praziquantel)

HEARTWORM PREVENTION PLUS DE-WORMER JUST FOR DOGS



Prevents heartworm disease and protects against a variety of other harmful worms

IMECTRO[®] Chew is a once-monthly bacon-flavored* chew that is best for use in dogs (8 weeks and older) who live in areas with a high risk of tapeworms.

**Ingredients used
and trusted by
veterinarians for
over 30 years.**



Scan to view IMECTRO[®]
Prescribing Information



Protects against



HEARTWORM



ROUNDWORM



HOOKWORM



TAPEWORM



In dogs and puppies:

Prevents heartworm disease

Treats and controls roundworms, hookworms, and tapeworms



**DO NOT
USE IN CATS**

Important Safety Information

IMECTRO[®] Chew (ivermectin/pyrantel pamoate/praziquantel) is well tolerated. All dogs should be tested for heartworm disease before starting a preventive protocol. Following the use of IMECTRO[®] Chew, gastrointestinal and neurological side effects have been reported.

*Bacon is not an ingredient in IMECTRO[®]

ADVENTUROUS AUSSIES TO CHILL CORGIS


Affordable heartworm preventive and de-wormer for dogs

Whether you have a homebody or an outsider – especially one who likes to hunt little critters – your dog needs protection from heartworm and other harmful worms. IMECTRO® (ivermectin/pyrantel pamoate/praziquantel) Chew is pest protection for the way your pet lives.

Take home once-monthly protection
from your vet's office today.



Dosing options available

 For dogs and puppies at
least 2.5 lbs and 8 weeks
and older

Available in single doses and
in 6 monthly dose packs



**DO NOT
USE IN CATS**

IMECTRO®
Chew
(ivermectin/pyrantel pamoate/
praziquantel) + Vectra
3D[®] for Dogs



In dogs and puppies:

Effective against



Heartworm



Hookworm



Roundworm



Tapeworm

Use both IMECTRO® and Vectra® 3D for more
comprehensive protection for your dog.



IMECTRO™ Chew

(ivermectin/pyrantel pamoate/praziquantel)

For oral use in dogs only.

Caution: Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

Description: IMECTRO™ Chew is a combination of three anthelmintics (ivermectin/pyrantel pamoate/praziquantel). The chews are available in four sizes in color-coded packages for oral administration to dogs according to their weight (see **Dosage and Administration**).

Indications: For use in dogs to prevent canine heartworm disease by eliminating the tissue stage of heartworm larvae (*Dirofilaria immitis*) for a month (30 days) after infection and for the treatment and control of roundworms (*Toxocara canis*, *Toxascaris leonina*), hookworms (*Ancylostoma caninum*, *Uncinaria stenocephala*, *Ancylostoma braziliense*), and tapeworms (*Dipylidium caninum*, *Taenia pisiformis*).

Dosage and Administration: IMECTRO™ Chew should be administered orally at monthly intervals and the recommended minimum dose level of 6 mcg of ivermectin per kilogram (2.72 mcg/lb), 5 mg of pyrantel (as pamoate salt) per kg (2.27 mg/lb) and 5 mg of praziquantel per kg (2.27 mg/lb) of body weight, as follows:

Dog Weight Pounds	Chew per Month	Chew Size	Ivermectin Content	Pyrantel Pamoate Content	Praziquantel Content
6.0 to 12	1	Toy	34 mcg	28.5 mg	28.5 mg
12.1 to 25	1	Small	68 mcg	57 mg	57 mg
25.1 to 50	1	Medium	136 mcg	114 mg	114 mg
50.1 to 100	1	Large	272 mcg	228 mg	228 mg

IMECTRO™ Chew is recommended for dogs 8 weeks of age or older. For dogs over 100 lbs, use the appropriate combination of these soft chews.

Remove only one dose at a time from the packaging. Return the remaining chew(s) to their box to protect from light. The chew can be offered to the dog by hand or added, intact, to a small amount of dog food. Care should be taken to ensure that the dog consumes the complete dose. The treated dog should be observed for a few minutes after administration to confirm that none of the dose has been lost or rejected. If it is suspected that any of the dose has been lost, redosing is recommended.

IMECTRO™ Chew should be given at monthly intervals during the period of the year when mosquitoes (vectors), potentially carrying infective heartworm larvae, are active. The initial dose must be given within a month (30 days) after the dog's first exposure to mosquitoes. The final dose must be given within a month (30 days) after the dog's last exposure to mosquitoes.

When replacing another heartworm preventative product in a heartworm disease prevention program, the first dose of IMECTRO™ Chew must be given within a month (30 days) after the last dose of the former medication. A heartworm test should be performed prior to and 6 months after switching heartworm preventative products.

If the interval between doses exceeds a month (30 days), the effectiveness of ivermectin can be reduced. Therefore, for optimal performance, the chew must be given once a month or about the same day of the month. If treatment is delayed, whether by a few days or many, immediate treatment with IMECTRO™ Chew and resumption of the recommended dosing regimen will minimize the opportunity for the development of adult heartworms.

Warnings:

For use in dogs only. Keep this and all drugs out of reach of children and pets. In safety studies with ivermectin/pyrantel pamoate/praziquantel tablets, testicular hypoplasia was observed in some dogs receiving 3 and 5 times the maximum recommended dose monthly for 6 months (see Animal Safety).

In case of ingestion by humans, clients should be advised to contact a physician immediately. Physicians may contact a Poison Control Center for advice concerning cases of ingestion by humans.

Precautions: Use with caution in sick, debilitated, or underweight animals and dogs weighing less than 10 lbs (see Animal Safety). The safe use of this drug has not been evaluated in pregnant or lactating bitches.

All dogs should be tested for existing heartworm infection before and 6 months after starting treatment with IMECTRO™ Chew, which is not effective against adult *Dirofilaria immitis*. Infected dogs should be treated to remove adult heartworms and microfilariae before initiating a heartworm prevention program.

While some microfilariae may be killed by the ivermectin in IMECTRO™ Chew at the recommended dose level, IMECTRO™ Chew is not effective for microfilariae clearance. A mild hypersensitivity-type reaction, presumably due to dead or dying microfilariae and particularly involving a transient diarrhea, has been observed in clinical trials with ivermectin alone after treatment of some dogs that have circulating microfilariae.

Adverse Reactions: In a field study with IMECTRO™ Chew, self-limiting adverse reactions, including vomiting, diarrhea, lethargy, difficulty swallowing, excessive salivation, increased water consumption, and coughing were reported. Self-limiting adverse reactions, including lethargy, limpness, salivation, shaking, diarrhea, decreased appetite, licking lips, and belching were reported between 20 minutes and 72 hours following treatment in a field study with ivermectin/pyrantel pamoate/praziquantel tablets.

In field studies with ivermectin/pyrantel/praziquantel pamoate tablets, vomiting or diarrhea within 24 hours of dosing was rarely observed (1.1% of administered doses). The following adverse reactions have been reported in dogs following the use of ivermectin products: depression/lethargy, vomiting, anorexia, diarrhea, mydriasis, ataxia, staggering, convulsions, and hypersalivation.

To report suspected adverse events, for technical assistance or to obtain a copy of the Safety Data Sheet (SDS), contact Ceva Animal Health, LLC at 1-800-999-0297. For additional information about adverse drug experience reporting for animal drugs, contact the FDA at 1-888-FDA-VETS or www.fda.gov/reportanimalae.

Effectiveness: Prevention of the tissue larval stage of heartworm (*Dirofilaria immitis*) and the elimination of the adult stage of hookworm (*Ancylostoma caninum*, *Uncinaria stenocephala*, *Ancylostoma braziliense*), roundworm (*Toxocara canis*, *Toxascaris leonina*), and tapeworm (*Dipylidium caninum*, *Taenia pisiformis*) infections in dogs was demonstrated in well-controlled laboratory studies.

Palatability: In a field study of 132 dogs, IMECTRO™ Chew was offered once monthly for 3 months. The dogs voluntarily consumed 86.3% of the doses from the owner's hand or from a bowl within 5 minutes, 13.0% accepted the dose when it was offered in food or administered by placing in the back of the dog's tongue (pilling), and 0.7% of the doses were unable to be administered.

Animal Safety: Studies with ivermectin indicate that certain dogs of the Collie breed are more sensitive to the effects of ivermectin administered at elevated dose levels (more than 16 times the target dose level of 6 mcg/kg) than dogs of other breeds. At elevated doses, sensitive dogs showed more adverse reactions which included mydriasis, depression, ataxia, tremors, drooling, paresis, recumbency, excitability, stupor, coma and death. No signs of toxicity were seen at 10 times the recommended dose (27.2 mcg/lb) in sensitive Collies. Data from these studies support the safety of ivermectin products in dogs, including Collies, when used at the label recommended dose.

Because ivermectin and praziquantel are approximately 30% more bioavailable in the IMECTRO™ Chew than in the ivermectin/pyrantel pamoate/praziquantel tablets used in the following target animal safety studies, the margin of safety is narrower than reported in these studies. The potential for adverse reactions may be greater in individual dogs administered IMECTRO™ Chew than ivermectin/pyrantel pamoate/praziquantel tablets.

In a target animal safety study using ivermectin/pyrantel pamoate/praziquantel tablets, doses were administered to 8 week old Beagle puppies at one, three, and five times the maximum recommended dose of 12.5 mcg/kg ivermectin, 10.47 mg/kg pyrantel and 10.47 mg/kg praziquantel. The dogs were treated every 30 days for 6 months. Vomiting within 6 hours of dosing and soft or watery feces within 24 hours of dosing were observed. Other observations during the study were: ano-genital swelling, lethargy, head movements, shallow, audible or difficult breathing, and salivation. One dog in the 5X group had tremors and decreased activity. All of these signs were transient. No treatment was required. Histopathology showed testicular hypoplasia in the 3X and 5X groups (see **Warnings**).

In a laboratory safety study using ivermectin/pyrantel pamoate/praziquantel tablets, 12-week-old Beagle puppies receiving 3 and 5 times the recommended dose once weekly for 13 weeks demonstrated a dose-related decrease in testicular maturation compared to controls. In this study, all treated puppies had significantly higher cholesterol levels compared to untreated controls.

In a reproductive safety study, adult males were treated at 37.5 mcg/kg ivermectin, 31.4 mg/kg pyrantel and 31.4 mg/kg praziquantel every 14 days during two full spermatogenic cycles (112 days). The quality of semen and reproductive health were not affected by treatment. Treatment related vomiting and soft feces were reported during this study.

In a study of the effectiveness of ivermectin/pyrantel pamoate/praziquantel tablets for the treatment of *Toxocara canis*, one 8.1 lb, 72-day-old puppy died 6 days after administration of the label dose. This puppy and many other puppies in the study had high worm burdens and were reported to have diarrhea, sometimes bloody, frequently before and after treatment. Dehydration and signs of anemia (pale mucous membranes) were the only abnormal gross necropsy finding observed. No definitive cause was determined. In a 90-day field study using ivermectin/pyrantel pamoate/praziquantel tablets, the most serious adverse reactions (lethargy, limpness, and salivation) were seen in dogs weighing less than 10 lbs (see **Precautions**).

Storage Information: Store at 20°C to 25°C (68°F to 77°F), excursions permitted between 15°C and 30°C (59°F to 86°F). Protect product from light.

How Supplied: IMECTRO™ Chew is available in four dosage strengths (see **Dosage and Administration**) for dogs of different weights. Each strength comes in a package of 6 chews.

Approved by FDA under NADA # 141-441

Manufactured for:
Ceva Animal Health, LLC
Lenexa, KS 66215



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IMECTRO™ trademark is the property of Ceva Animal Health, LLC.

MilbeGuard[®] (milbemycin oxime) Flavored Tablets

INFORMATION FOR DOSING DOGS

The once-a-month tablet that prevents heartworm disease, controls adult hookworm, and removes and controls adult roundworm and whipworm infections in dogs and puppies.

Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian. Keep this and all drugs out of the reach of children.

Description: MILBEGUARD[®] (milbemycin oxime) Flavored Tablets are available in four tablet sizes in color-coded packages for oral administration to dogs and puppies. Each tablet is formulated to provide a minimum of 0.23 mg/lb (0.5 mg/kg) body weight of milbemycin oxime. Milbemycin oxime consists of the oxime derivatives of 5-didehydromilbemycins in the ratio of approximately 80% A₄ (C₂₂H₄₂NO₇, MW 555.71) and 20% A₃ (C₂₁H₄₀NO₇, MW 541.68).

Package color	Milbemycin oxime tablet
Yellow	2.3 mg*
Blue	5.75 mg
Purple	11.5 mg
Red	23.0 mg

*for dogs only

Indications: MILBEGUARD[®] Flavored Tablets are indicated for use in the prevention of heartworm disease caused by *Dirofilaria immitis*, the control of adult *Ancylostoma caninum* (hookworm), and the removal and control of adult *Toxocara canis* and *Toxascaris leonina* (roundworms) and *Trichuris vulpis* (whipworm) infections in dogs and in puppies four weeks of age or greater and two pounds body weight or greater.

Dosage: MILBEGUARD[®] Flavored Tablets are given orally, once a month, at the recommended minimum dosage rate of 0.23 mg milbemycin oxime per pound of body weight (0.5 mg/kg).

Recommended Dosage Schedule for Dogs

Body Weight	MilbeGuard [®] Flavored Tablets
2-10 lbs.	One tablet (2.3 mg)
11-25 lbs.	One tablet (5.75 mg)
26-50 lbs.	One tablet (11.5 mg)
51-100 lbs.	One tablet (23.0 mg)

Dogs over 100 lbs. are provided the appropriate combination of tablets.

Administration: MILBEGUARD[®] Flavored Tablets are dual-purpose and may be offered in food or administered as other tablet medications. Watch the dog closely following dosing to be sure the entire dose has been consumed. If it is not entirely consumed, redose once with the full recommended dose as soon as possible.

MILBEGUARD[®] Flavored Tablets must be administered monthly, preferably on the same date each month. The first dose should be administered within one month of the dog's first exposure to mosquitoes and monthly thereafter until the end of the mosquito season. If a dose is missed and a 30-day interval between dosing is exceeded, administer MILBEGUARD[®] Flavored Tablets immediately and resume the monthly dosing schedule.

If MILBEGUARD[®] Flavored Tablets replaces diethylcarbamazine (DEC) for heartworm prevention, the first dose must be given within 30 days after the last dose of DEC.

Precautions: Do not use in puppies less than four weeks of age or less than two pounds of body weight. Prior to initiation of the MILBEGUARD[®] Flavored Tablets treatment program, dogs should be tested for existing heartworm infections. Infected dogs should be treated to remove adult heartworms and microfilariae prior to initiating treatment with MILBEGUARD[®] Flavored Tablets. Mild, transient hypersensitivity reactions manifested as labored respiration, vomiting, salivation and lethargy, have been noted in some treated dogs carrying a high number of circulating microfilariae. These reactions are presumably caused by release of protein from dead or dying microfilariae.

Adverse Reactions: The following adverse reactions have been reported following the use of MILBEGUARD[®] Flavored Tablets: Depression/lethargy, vomiting, ataxia, anorexia, diarrhea, convulsions, weakness and hypersalivation.

Efficacy: MILBEGUARD[®] Flavored Tablets eliminate the tissue stage of heartworm larvae and the adult stage of hookworm (*Ancylostoma caninum*), roundworms (*Toxocara canis*, *Toxascaris leonina*) and whipworm (*Trichuris vulpis*) infestations when administered orally according to the recommended dosage schedule. The anthelmintic activity of milbemycin oxime is believed to be a result of interference with invertebrate neurotransmission.

Safety: Milbemycin oxime has been tested safely in over 75 different breeds of dogs, including collies, pregnant females, breeding males and females, and puppies over two weeks of age. In well-controlled clinical field studies, 786 dogs completed treatment with milbemycin oxime. Milbemycin oxime was used safely in animals receiving frequently used veterinary products such as vaccines, anthelmintics, antibiotics, steroids, flea collars, shampoos and dips.

Two studies in heartworm-infected dogs were conducted which demonstrated mild, transient hypersensitivity reactions in treated dogs with high microfilaremia counts (see Precautions for reactions observed). Safety studies in pregnant dogs demonstrated that high doses (1.5 mg/kg = 3X) of milbemycin oxime given in an exaggerated dosing regimen (daily from mating through weaning), resulted in measurable concentrations of the drug in milk. Puppies nursing these females which received exaggerated dosing regimens demonstrated milbemycin-related effects. These effects were directly attributable to the exaggerated experimental dosing regimen. The product is normally intended for once-a-month administration only. Subsequent studies included using 3X daily from mating to one week before weaning and demonstrated no effects on the pregnant females or their litters. A second study where pregnant females were dosed once at 3X the monthly use rate either before, on the day of or shortly after whelping resulted in no effects on the puppies.

Some nursing puppies, at 2, 4, and 6 weeks of age, given greatly exaggerated oral milbemycin oxime doses (9.6 mg/kg = 19X) exhibited signs typified by tremors, vocalization and ataxia. These effects were all transient and puppies returned to normal within 24 to 48 hours. No effects were observed in puppies given the recommended dose of milbemycin oxime (0.5 mg/kg). This product has not been tested in dogs less than 1 kg weight.

A rising-dose safety study conducted in rough-coated collies, manifested a clinical reaction consisting of ataxia, pyrexia and periodic recumbency, in one of fourteen dogs treated with milbemycin oxime at 12.5 mg/kg (25X monthly use rate). Prior to receiving the 12.5 mg/kg dose (25X monthly use rate) on day 56 of the study, all animals had undergone an exaggerated dosing regimen consisting of 2.5 mg/kg milbemycin oxime (5X monthly use rate) on day 0, followed by 5.0 mg/kg (10X monthly use rate) on day 14 and 10.0 mg/kg (20X monthly use rate) on day 32. No adverse reactions were observed in any of the collies treated with this regimen up through the 10.0 mg/kg (20X monthly use rate) dose.

How supplied: MILBEGUARD[®] Flavored Tablets are available in four tablet sizes (see Dosage section), formulated according to the weight of the dog. Each tablet size is available in color-coded packages of 6 tablets each, which are packaged 10 per display carton.

Storage conditions: MILBEGUARD[®] Flavored Tablets should be stored at room temperature, between 68° and 77°F (20-25°C).

Keep MILBEGUARD[®] (milbemycin oxime) Flavored Tablets in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

Manufactured for:

Ceva Animal Health, LLC
Lenexa, KS 66215

Made in Canada.

Approved by FDA under ANADA # 200-629



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MilbeGuard[®] (milbemycin oxime) Flavored Tablets

INFORMATION FOR DOSING CATS

The once-a-month tablet that prevents heartworm disease and removes adult roundworms and hookworms in cats and kittens.

Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian. Keep this and all drugs out of the reach of children.

Description: MILBEGUARD[®] Flavored Tablets for Cats are available in three tablet sizes in color-coded packages for oral administration to cats and kittens. Each tablet is formulated to provide a minimum of 0.9 mg/lb (2.0 mg/kg) body weight of milbemycin oxime. Milbemycin oxime consists of the oxime derivatives of 5-dihydrodimilbemyins in the ratio of approximately 80% A₄ (C₂₃H₄₃NO₇, MW 555.71) and 20% A₃ (C₂₃H₄₃NO₇, MW 541.68).

Package color	Milbemycin oxime tablet
Blue	5.75 mg
Purple	11.5 mg
Red	23.0 mg

Indications: MILBEGUARD[®] Flavored Tablets for Cats are indicated for use in the prevention of heartworm disease caused by *Dirofilaria immitis*, and the removal of adult *Ancylostoma tubaeforme* (hookworm) and *Toxocara cati* (roundworm) in cats and kittens six weeks of age or greater and 1.5 lbs. body weight or greater.

Dosage: MILBEGUARD[®] Flavored Tablets for Cats are given orally, once a month, at the recommended minimum dosage rate of 0.9 mg milbemycin oxime per pound of body weight (2.0mg/kg).

Recommended Dosage Schedule for Cats

Body Weight	MilbeGuard [®] Flavored Tablets
1.5-6 lbs.	One tablet (5.75 mg)
6.1-12 lbs.	One tablet (11.5 mg)
12.1-25 lbs.	One tablet (23.0 mg)

Cats over 25 lbs. are provided the appropriate combination of tablets.

Administration: MILBEGUARD[®] Flavored Tablets for Cats may be offered in food or administered as other tablet medications. The tablets can be broken for ease of administration. Watch the cat closely following dosing to be sure the entire dose has been consumed. If it is not entirely consumed, redose once with the full recommended dose as soon as possible.

MILBEGUARD[®] Flavored Tablets for Cats must be administered monthly, preferably on the same date each month. The first dose should be administered within one month of the cat's first exposure to mosquitoes and monthly thereafter until the end of the mosquito season. If a dose is missed and a 30-day interval between dosing is exceeded, administer MILBEGUARD[®] Flavored Tablets for Cats immediately and resume the monthly dosing schedule. It is recommended that cats be tested for existing heartworm infection prior to starting treatment with MILBEGUARD[®] Flavored Tablets for Cats (See Precautions).

Precautions: Do not use in kittens less than six weeks of age or less than 1.5 lbs. body weight. Safety in heartworm positive cats has not been established. Safety in breeding, pregnant, and lactating queens and breeding toms has not been established.

Efficacy: MILBEGUARD[®] Flavored Tablets for Cats eliminate the tissue stage of heartworm larvae and hookworm (*Ancylostoma tubaeforme*) and roundworm (*Toxocara cati*) infections when administered orally according to the recommended dosage schedule. The anthelmintic activity of milbemycin oxime is believed to be a result of interference with invertebrate neurotransmission.

Safety: Milbemycin oxime has been tested safely in over 8 different breeds of cats. In well-controlled clinical field studies 141 cats completed treatment with milbemycin oxime. Milbemycin oxime was used safely in animals receiving frequently used veterinary products such as vaccines, anthelmintics, anesthetics, antibiotics, steroids, flea collars, shampoos and dips.

Safety studies were conducted in young cats and kittens and doses of 1X, 3X and 5X the minimum recommended dose of 2.0 mg/kg demonstrated no drug-related effects. Tolerability studies at exaggerated doses of 10X also demonstrated no drug-related adverse effects in kittens and young adult cats.

How supplied: MILBEGUARD[®] Flavored Tablets for Cats are available in three tablet sizes (see Dosage section), formulated according to the weight of the cat. Each tablet size is available in color-coded packages of 6 tablets each, which are packaged 10 per display carton.

Storage conditions: MILBEGUARD[®] Flavored Tablets for Cats should be stored at room temperature, between 68° and 77°F (20-25°C).

Keep MILBEGUARD[®] (milbemycin oxime) Flavored Tablets in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

Manufactured for:

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D86910B 08-A1-v3

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PAR-124-24v1