

# **ADVANTAGE MULTI®**

for cats (imidacloprid + moxidectin) Topical Solution

Once-a-month topical solution for cats for the prevention of heartworm disease, kills adult fleas, is indicated for the treatment of flea infestations, as well as the treatment and control of ear mite infestations and intestinal parasite infections in cats and kittens 9 weeks of age and older and that weigh at least 2 lbs.

Once a month topical solution for ferrets for the prevention of heartworm disease, kills adult fleas, and is indicated for the treatment of flea infestations. Indicated for ferrets that weigh at least 2 lbs. CAUTION:

# (U.S.A.) Law restricts this drug to use by or on the order of a licensed veterinarian

Federal (U.S.A) Law restricts uns using to use by or on the event and advantage MultiP for Cats (10% imidacloprid + 1% moxidectin) is a colorless to yellow ready-to-use solution packaged in single-dose applicator tubes for topical treatment of cats. The formulation and dosage schedule are designed to provide a minimum of 4.5 mg/lb (10.0 mg/kg) imidacloprid and 0.45 mg/lb (10.0 mg/kg) moxidectin based on body weight. Imidacloprid is a chloronicotinyl nitroguanidine insecticide. The chemical name of imidacloprid is 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazoldinimine. Moxidectin is a semisynthetic macrocyclic lactone endectocide derived from the actionmycetes Synapomycetes Synapomycangenus. The chemical name of moxidectin is [6R, 23E, 25S(E)]-5-0-Demethyl-28-deoxy-25-(1,3-dimethyl-1-butenyl)-6,28-epoxy-23-(methoxyimino) milbemycin B.

			Intestinal Stage		
Intestinal Parasite		Adult	Immature Adult	Fourth Stage Larvae	
Hookworm Species	Ancylostoma tubaeforme	Х	Х	Х	
Roundworm Species	Toxocara cati	Х		Х	

WARNINGS: Do not use on sick, debilitated, or underweight cats (See ADVERSE REACTIONS).

Do not use on cats less than 9 weeks of age or less than 2 lbs. body weight

HUMAN WARNINGS: Not for human use. Keep out of the reach of children. Children should not come in contact with the application site for 30 minutes after application. Causes eye irritation. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin. Exposure to the product has been reported to cause headche: dizziness; and redness, burning, indiging, or numbness of the skin. Wash hands thoroughly with soap and warm water after handling. If contact with eyes occurs, hold eyelids open and flush with copious amounts of water for 15 minutes. If eye irritation develops or persists, contact a physician. If swallowed, call poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swal-low. Do not induce vomiting unless told to do so by the poison control center or physician. If eaveling reaction, contact a physician. If contact with skin or clothing occurs, take off contaminated clothing. Wash skin imme-diately with plenty of soap and water. Call a poison control center or physician for treatment advice. The Safety Data Sheet (SDS) provides additional occupational safety information. For a copy of the Safety Data Sheet (SDS) or to report adverse reactions call Bayer Veterinary Services at 1-800-422-9874. For consumer questions call 1-800-255-6826.

1-80U-230-002.0. PRECAUTIONS: Do not dispense dose applicator tubes without complete safety and administration information. Avoid oral ingestion. Cats may experience hypersalivation, tremors, vomiting and decreased appetite if Advantage Multi for Cats is inadvertently administered orally or through grooming/licking of the application site. The safety of Advantage Multi for Cats has not been established in breeding, pregnant, or lactating cats. The effectiveness of Advantage Multi for Cats against heartworm infections (*D. immitis*) after bathing has not been evaluated in other interview.

in cats. Use of this product in geriatric patients with subclinical conditions has not been adequately studied. Several otherwise healthy, thin geriatric cats experienced prolonged lethargy and sleepiness after using this drug (See ADVERSE REACTIONS).

# ADVERSE REACTIONS:

Field Study: Follow treatment reactions ving treatment with Advantage Multi for Cats or an active control, cat owners reported the following post-

OBSERVATION	Advantage Multi n=113	Active Control n=38	
Lethargy (protracted sleeping, poorly responsive )	3 cats* (2.7%)	None observed	
Behavioral changes (e.g., agitated, excessive grooming, hiding, pacing, spinning)	9 cats (8.0%)	1 cat (2.6%)	
Discomfort (e.g., scratching, rubbing, head-shaking)	5 cats (4.4%)	None observed	
Hypersalivation (within 1 hour after treatment)	3 cats (2.7%)	None observed	
Polydipsia	3 cats (2.7%)	None observed	
Coughing and gagging	1 cat (0.9%)	None observed	

\*These three cats were from the same household and included one 13-yr-old cat in good health, one 15-yr-old FIV positive cat in good health, and one 15-yr-old, underweight cat in fair health. Lethargy was noted for 24 to 36 hrs after the first treatment only; one cat was unsteady at 48 hrs. These cats were not on other medications. During another field study, a 16-year-old cat with renal disease slept in the same place without moving for two days following application. (See PRECAUTIONS).

During another field study, a 16-year-old cat with renar olsease slept in the same place without moving for two days following application. (See PRECAUTIONS). Laboratory Effectiveness Studies: Advantage Multi for Cats was administered at the recommended dose to 215 cats in 20 effectiveness studies. One random-sourced cat exhibited signs consistent with either moxidectin toxicity or viral respiratory disease and died 26 hours after product application. Cats responded to treatment for respiratory infection and cat that became ill 3 days after application of Advantage Multi for Cats responded to treatment for respiratory infection and documpleted the study. A third cat became ill on day 3 and died with signs and lesions attributable to panleukopenia on day 7 after moxidectin application. Post-Approval Experience: The following adverse events are based on postapproval adverse drug experience reporting. Not all adverse reactions are reported to FDA CVM. It is not always possible to reliably estimate the adverse event frequency or establish a causal relationship to product exposure using this data. The following adverse events in cats are listed in decreasing order of reporting frequency: hypersalivation, depression/tethargy, application site reactions (alopeda, puritus, lesions, decreased appetite, vomiting, hyperactivity, ataxia, trembling, and behavior disorder (hiding). In some cases death has been reported. In humans, ocular and dermal irritation, nausea, numbness or tinging of the mouth and lips, ana-phylaxis, puritus, voniting, and tongue/taste abnormalities have been reported following exposure to this product. To report suspected adverse events and/or obtain a copy of the SDS or for technical assistance, call Bayer Animal Heath at 1-800-422-9874. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at http://www.fda.gov/AnimalVeterinary/SafetyHealth.

### DOSAGE AND ADMINISTRATION:

The recommended minimum dos month, by topical administration. Do not apply to irritated skin. se is 4.5 mg/lb (10.0 mg/kg) imidacloprid and 0.45 mg/lb (1.0 mg/kg) moxidectin, once a

Remove one dose applicator tube from the package. As specified in the following table, administer the entire contents
of the Advantage Multi® for Cats tube that correctly corresponds with the body weight of the cat.

Cat (lbs.)	Advantage Multi for Cats	Volume (mL)	lmidacloprid (mg)	Moxidectin (mg)		
2-5	Advantage Multi 5	0.23	23	2.3		
5.1-9	Advantage Multi 9	0.4	40	4		
0.1.10*	A durante a Adulti 10	0.0	00	0		

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9.1-18 Advantage Multi 18 0.8 80 Cats over 18 lbs, should be treated with the appropriate combination of Advantage Multi for Cats tubes 

While holding the tube in an upright position, remove the cap from the tube.
 Turn the cap over and push the other end of cap onto the tip of the tube.

- 4. Twist the cap to break the seal and then remove cap from the tube.

4. Twist the cap to break the seal and then remove cap from the tube.
5. Part the hair on the back of the cat's neck at the base of the head, until the skin is visible. Place the tip of the tube on the skin and apply the entire contents directly on the exposed skin. Lift tube away from skin before releasing pressure on tube.
Do not get this product in the cat's mouth or eyes or allow the cat to lick the application site for 30 minutes. Treatment at the base of the head will minimize the opportunity for ingestion by grooming. In households with multiple pets, keep animals separated to prevent licking of the application site.
Stiff, matted hair or a damp, oly appearance of the hair may be observed at the application site on some cats. This is temporary and does not affect the safety and effectiveness of the product.
Heartwome Prevention: For prevention of heartworm disease, Advantage Multi for Cats should be administered at one-month intervals. Advantage Multi for Cats may be administered year-around or at a minimum should start one month before the first expected exposure to mosquitoes and should continue at monthly intervals until one month After the last exposure to mosquitoes. If a doose is missed and a 30-day interval between doses is exceeded, administer Advantage Multi for Cats (See ADVERSE REAC-immediately and resume the monthly dosing schedule. When replacing another heartworm prevention program, the first treatment with Advantage Multi for Cats is administered at one-month intervals. Post-Approval Experience).
Fer Teatment: For the treatment of Teatinger Multi for Cats schould be given within one month of the last dose of the former medication. At the discretion of the veterinarian, cats older than 6 months of age may be tested to determine the presence of existing plataway infection before treatment with Advantage Multi for Cats should be administered, administered, advinistered, advinistered, advinistered, advinistered, advinistered, advinistered,

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ANIMAL SAFETY:
Studies in Kittens: Advantage Multi for Cats was topically applied at 0, 1, 3, and 5X the maximum dose to 48 healthy 9-week-old kittens on days 0, 28, and 56. Lethargy was observed in 1 kitten from the 3X group was dater initial treatment; the titten from the 3X group was also disoriented and ataxic. One kitten from the 3X group was scatching at the treatment the 5X group agree treatment and one had tremors the day after treatment. Hypersalivation was seen in one kitten from the 5X group agree treatment. Sight couple was noted in 7 different kittens (2-0X, 2-1X, and 3-5X) during the 13-day period following the first treatment. Sight couple was noted in 7 different kittens (2-0X, 2-1X, and 3-5X) during the 13-day period following the first treatment. Histopathology showed granulomatous inflammation (1-5X) and ymphoid hyperplasia (2-1X, 4-3X) were seen in treated kittens. In a second study. Advantage Multi for Cats was topically applied at 0, 17, 52 and 8.7X the maximum dose to 48 healthy 9-week-old kittens every two weeks for 6 doses. One kitten in the 3.7X group apparently ingested an unknown amount of the drug and developed the following clinical signs prior to euthanasia: mydriasis, salivation, depression, vomiting, unsteadiness, rapid to slow to difficult breathing, poor upullary response, generalized tremory, inability to move, and nystagmus. Two kittens in the 5.2X group developed mydriasis.
Totar lorance Study: Eight healthy juvenile cats were topically dosed with a single application of Advantage Multi for Cats was to to impersalivation. Generation of advantage Multi for Cats was tested in case of accidental rari ingestion. The maximum for 10 the second week following treatment. There are developed in one kitten within 1 hour, resolving without fats at 10 times the recommended dose volume. Mild, transient hypersalivation (8 of 12 kittens) and vorniting (12 of 12 kittens) were observed immediately post-treatment. There developed invektion dara ingestion. The maximum for 10

## FERRETS

Use only the 0.4 mL Advantage Multi for Cats in ferrets. The 0.23 mL size does not provide an effective dose and the 0.8 mL size could result in an overdose. INDICATIONS:

For Ferrets: Advantage Multi for Cats is indicated for the prevention of heartworm disease in ferrets caused by Dirofilaria immitis Advantage Multi for Cats kills adult fleas (Ctenocephalides felis) and is indicated for the treatment of flea infestations on ferrets.

### WARNINGS:

on sick or debilitated ferrets.

PRECAUTIONS:

Do not dispense dose applicator tubes without complete safety and administration information

The safety of *Advantage Multi* for *Cats* has not been established in breeding, pregnant, and lactating ferrets. Treatment of ferrets weighing less than 2.0 lbs (0.9 kg) should be based on a risk-benefit assessment. The effectiveness of *Advantage Multi for Cats* in ferrets weighing over 4.4 lbs. (2.0 kg) has not been established.

The effectiveness of Advantage Multi for Cats in terrets weighing over 4.4 lbs. (2.0 kg) has not been established. **ADVERSE REACTIONS:** Field safety Study in Ferrets: Advantage Multi for Cats was topically administered to 131 client-owned ferrets at the rec-ommended dose volume (0.4 mL). The ferrets ranged in age from 3 months to 7 years, and weighed between 0.5 and 1.86 kg (1.1 to 4.1 lbs). The dose of imidacloprid ranged between 21.5 and 80.2 mg/kg in this study. The dose of moxidectin ranged between 2.2 to 8.0 mg/kg in this study. Adverse reactions in ferrets following treatment included: pruritus/scratching, scabbing, redness, wounds and inflammation at the treatment site; lettrayry, and chemical odor. These adverse reactions resolved without additional therapy. Owners also reported stiffening of the hair at the treatment site, however, this is expected with application of a topical product and is not considered an adverse reactions. Three human adverse reactions were reported. An owner's finger became red following skin contact with the product. One owner reported a headache caused by chemical odor of the product. One owner reported a tingling sensation of the lips after kissing the treatment site. Foreian Market Experience: Because the following events were reported voluntarily during post-approval use of the product

Known was the readment site. Foreign Market Experience: Because the following events were reported voluntarily during post-approval use of the product in foreign markets, it is not always possible to reliably establish a causal relationship to drug exposure. Adverse events reported in ferrets topically treated with 0.4 mL imidacloprid + moxidectin for cats included: malaise, vomiting, diarrhea, shaking, mydriasis, hypersalivation with abnormal neurologic signs, seizures, death, generalized hematoma of the body, and alopecia at the treatment site. Adverse reactions in humans included: burning, tingling, numbness, bad taste in the mouth, dizziness, and headache.

# ANIMAL SAFETY: Ferrets: Advantage

ANIMAL SAFETY: Ferrets: Advantage Multi for Cats was topically applied at 5X the recommended dose volume to six healthy 9-month-old fer-rets on Study Days 0, 14, 28, and 42. Because the weights of the ferrets in this study ranged from 2.0 to 4.0 lb (0.9 kg to 1.8 kg), ferrets received a range of doses from 51.0 to 106.9 mg/lb (112 to 235 mg/kg) of imidacloprid and 5 to 10.5 mg/lb (11 to 23 mg/kg) of moxidectin. The following abnormal clinical signs were reported during the study: wet, matted, and/or greasy appearance to the hair, shaking of the head and/or body, rubing of dose site on cage, and shedding. Slight increases in phosphorous, potassium, aspartate aminotransferase (AST), and glucose were seen during the study, however, no clinical signs related to these bloodwork changes were reported. Oral Safety Study: Advantage Multi for Cats was orally administered at the recommended dose volume (0.4 mL) to eight healthy ferrets on Study Day 0. Ferrets were 78 to 101 days old (11.1 to 14.4 weeks) and weighed between 1.1 to 1.8 lb (0.5 to 0.8 kg) body weight on the day of dosing, resulting in doses ranges 22.0-36.8 mg/lb (48.3-81.0 mg/kg) imidacloprid and 2.2-3.7 mg/lb (4.8-8.0 mg/kg) moxidectin. The following abnormal clinical signs were reported immediately following oral administration of *Advantage Multi for Cats*: vomiting (one ferret) and ataxia (two ferrets). All abnormalities resolved without treatment or supportive care.

treatment or supportive care

### DOSAGE AND ADMINISTRATION

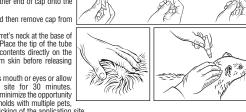
For Ferret

. mended minimum dose for a ferret is 9 mg/lb (20.0 mg/kg) imidacloprid and 0.9 mg/lb (2 mg/kg) moxidectin, once a month, by topical administration

 
 Ferret (lbs.)
 Advantage Multi for Cats
 Volume (mL)
 Imidacloprid (mg)
 Moxidectin (mg) Advantage Multi 9 2.0 - 4.4 Only the 0.4 mL applicator tube volume (Advantage Multi 9) should be used on ferrets.

Do not apply to irritated skin.

Not apply to irritated SKIN.
 Remove one dose applicator tube from the package. Administer the entire contents of the *Advantage Multi for Cats* tube (0.4 mL).
 While holding the tube in an upright position, remove the cap from the tube.
 Turn the cap over and push the other end of cap onto the tip of the tube.
 Turn the cap to break the seal and then remove cap from the tube.
 Part the bair on the back of the terret in the tube.



Stiff, matted hair or a damp, oily appearance of the hair may be observed at the application site on some ferrets. This is temporary and does not affect the safety and effectiveness of the product.

temporary and does not affect the safety and effectiveness of the product. **Heartworm Prevention:** For prevention of heartworm disease, *Advantage Multi for Cats* should be administered at one-month intervals. *Advantage Multi for Cats* may be administered year-around or at a minimum should start one month before the first expected exposure to mosquitoes and should continue at monthly intervals until one month after the last exposure to mosquitoes. If a dose is missed and a 30-day interval between doses is exceeded, administer *Advantage Multi for Cats* immediately and resume the monthly dosing schedule. **Flea Treatment:** For the treatment of flea infestations on ferrets, *Advantage Multi for Cats* should be administered at one-month intervals. If the ferret is already infested with fleas when the first dose of *Advantage Multi for Cats* is administered, adult fleas on the ferret will be killed. However, re-infestation from the emergence of pre-existing pupae in the environment may continue to occur for six weeks or longer after treatment is initiated. **STRBAGE INFORMATION**-

# STORAGE INFORMATION:

Store at temperatures between 4°C (39°F) and 25°C (77°F), avoiding excess heat or cold.

HOW SUPPLIED: Applications Per Package 3 x 0.23 mL tubes 6 x 0.4 mL tubes

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6 x 0.8 mL tubes

Advantage Multi is protected by one or more of the following U.S. patents: 6,232,328 and 6,001,858

NADA # 141-254, Approved by FDA

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# Bayer

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