



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

October 20, 2011

Ms. Lorri Chavez  
Farnam Companies, Inc.  
301 West Osborn Road  
Phoenix, AZ 85013

Subject: Amended Reregistration Label  
Product Name: Farnam Pet Spray 549  
EPA Registration Number: 270-307  
EPA Decision Number(s): 414239

Dear Ms.. Chavez::

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the reregistration of the referenced product in connection with the MGK-264 and Pyrethrins REDs and has concluded that your submission is acceptable.

**NOTE:** This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label or durably marked on the container itself, and can be added by non-notification per PRN 98-10.

Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated 9/26/2011

A copy of your label stamped "Accepted" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

If you have any questions about this letter, please contact Dana Pilitt, Ph.D. at (703) 305-7071 or via e-mail at [pilitt.dana@epa.gov](mailto:pilitt.dana@epa.gov).

Sincerely,

*Dana R. Pilitt*

*for* Richard J. Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7504P)

*Enclosures: Label stamped "Accepted," dated October 20, 2011  
Acute Toxicity Review, dated October 26, 2010  
Product Chemistry Review, dated February 28, 2011*

[ ] OR ( ) indicates alternate or optional wording

3/10  
ACCEPTED

OCT 20 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 270-307

FARNAM PET SPRAY 549  
BIO SPOT FLEA & TICK MIST FOR CATS  
BIO SPOT FLEA & TICK MIST WITH NYLAR FOR DOGS  
ADAMS FLEA & TICK MIST WITH INSECT GROWTH REGULATOR (IGR)  
ADAMS PLUS FLEA & TICK MIST WITH INSECT GROWTH REGULATOR (IGR)

- Contains [Biolar®], an insect growth regulator [IGR]
- Biolar® [brand name] is an insect growth regulator similar to [naturally occurring] insect juvenile hormone, which stops [interferes with] insect growth and development.
- [Biolar®][brand name] stops [prevents] the fleas from developing into [egg laying] adults.
- [Biolar®][brand name] can be used as part of an integrated pest management [IPM] program.
- [Biolar®][brand name] keeps working in areas exposed to the sun.
- [Biolar®][brand name] inhibits reinfestation of fleas for up to 100 days [14 weeks][3 months].
- Kills adult fleas [and ticks].
- Aids in the quick removal of ticks.
- Kills pre-adult fleas, including flea eggs for 100 days [14 weeks][3 months].
- If adult fleas are introduced, their offspring will not become biting [reproductive] adults.
- Prevents larval fleas from developing into the biting adult stage.
- Prevents [stops] hatching fleas [pre-adult (larval) fleas][eggs (hatching eggs)(larvae)] from becoming full grown (developing into) biting adults.
- One treatment works for [100 days] [14 weeks][3 months] against hatching fleas [pre-adult (larval) fleas][eggs (hatching eggs)(larvae)].
- Kills (present) (today's) fleas and prevents (new) (tomorrow's) fleas from developing into the biting adult stage.
- [Biolar®] [brand name] activity keeps working for [100 days] [14 weeks][3 months].
- Prevents [stops] the emergence of [biting][reproductive] adult fleas.
- Flea eggs deposited on the dog [cat][pet] will not develop into adult fleas.
- [Biolar®][brand name] acts on immature [life stages of] fleas, preventing them from developing into biting adults.
- Aids in the control of flea bite dermatitis by killing [controlling] fleas.
- Safe on miniature and toy breeds.
- [Kills] [controls] and Repels: Fleas, Ticks, Lice, Flies, Mosquitoes and Gnats.

[ ] OR ( ) indicates alternat optional wording

- Also [kills] [controls] Deer Ticks and other tick [Ixodid] species that may carry and transmit Lyme Disease.
- Kills on contact, Ticks, Spiders, Ants, Roaches and other listed insects.
- Effective long term control
- Ready-To-Use [RTU] Spray
- Non-Aerosol
- Also kills flea eggs and larvae for 3 months
- Use on cats, cat beds, carpet, furniture
- For use on cats AND areas where cats frequent - Carpets, Upholstery, Pet Bedding
- Three [3] Month Protection
- Use on dogs, dog beds, carpet & furniture
- Use on dogs & cats, pet bedding, carpet & furniture

**ACTIVE INGREDIENTS:**

Pyriproxyfen 2-[1-methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine (Nylar®)	0.125%
Pyrethrins	0.180%
*N-Octyl bicycloheptene dicarboximide	1.000%

**OTHER INGREDIENTS:** ..... 98.695%

**TOTAL**..... 100.000%

\*MGK® 264, Insecticide Synergist

Nylar® and MGK® are registered trademarks of McLaughlin Gormley King Company

Keep Out Of Reach Of Children  
**CAUTION**  
 See Side Panel for Additional Precautionary Statements

EPA Reg. No. 270-307

EPA Est. No. \_\_\_\_\_

Net Contents \_\_\_\_\_

[Farnam Pet Spray 549][brand name] kills [controls] insects [on contact][such as]:

[ ] OR ( ) indicates alternate or optional wording

Fleas [adults (larvae) (eggs) (pre-adult)]  
 Ticks [that may carry and transmit Lyme Disease]  
 Brown Dog Ticks  
 Lone Star Ticks  
 Deer Tick  
 Other Ixodid species  
 American Dog Tick  
 Gulf Coast Tick  
 Lice  
 Mosquitoes  
 Sowbugs  
 Millipedes  
 Beetles  
 Pillbugs  
 Centipedes

Spiders  
 Scorpions  
 Ants  
 Flies  
 Waterbugs  
 Cockroaches  
 Smoky Brown Cockroach  
 Brown Banded Cockroach  
 Asian Cockroach  
 German Cockroach  
 American Cockroach  
 Australian Cockroach  
 Oriental Cockroach  
 Crickets  
 Palmetto Bugs

For use in areas [such as]: Animal Runs, Animal Holding Areas, Animal Quarters, Apartments, Attics, Automobiles, Basements, Bedrooms, Boarding Kennels, Boats, Campers, Cat Beds, Closets, Condominiums, Decks, Dens, Dog Beds, Dog Houses, Dormitories, Floors, Garages, Gazebos, Homes, Hotels, Kennels, Kitchens, Lanais, Living Rooms, Motels, Patios, Pet Bedding, Pet Carriers, Pet Grooming Parlors, Pet Sleeping Areas, Pet Stores, Play Rooms, Porches, Recreational Vehicles, Rooms, Scratching Posts, Utility Rooms, Verandahs, Veterinary Clinics/Hospitals, Zoos.

[Farnam Pet Spray 549] [brand name] for [pets][dogs][cats] contains a combination of ingredients that stops [blocks (interrupts)(terminates)] the flea life cycle and controls other listed insects. The first active ingredient is [Biolar®][brand name] the insect growth regulator which inhibits the development of the immature stages of the flea for 100 days [14 weeks][3 months]-preventing them from reaching the adult stage. [Biolar®][brand name] is similar to insect growth hormones that occur naturally in insects. The second active ingredient is the botanical, Pyrethrum [an extract of a Chrysanthemum flower], which provides effective knock-down and quick-kill of insects upon direct contact.

The combination of ingredients in [Farnam Pet Spray 549][brand name] for [pets] [dogs] [cats] kills adult fleas and the hatching fleas [pre-adult (larval) fleas][eggs]

[ ] OR ( ) indicates alternate or optional wording

(hatching eggs)(larvae)] for 100 days [14 weeks][3 months] before they grow up to bite. [Biolar®][brand name][the insect growth regulator] continues to kill [control] hatching fleas [pre-adult (larval) fleas][eggs (hatching eggs)(larvae)] for 100 days [14 weeks][3 months] by preventing their development onto the adult biting stage. [Farnam Pet Spray 549][brand name] can also be used to control (kill)(interrupt)(terminate)(block)] fleas hidden in carpets, rugs, draperies, upholstery, pet bedding, floor cracks and cabinets. Occasionally adult fleas may be present in treated areas when reintroduced from infested animals.

As a part of a complete flea control program treat pet, treat indoor and outdoor areas where animals frequent by using EPA registered [brand name] outdoor [lawn][home and garden] spray, [brand name] [pressurized] [Ready-To-Use] [RTU] flea and tick [indoor] [premise] spray.

[Farnam Pet Spray 549] [brand name] may be applied as a direct, contact spray to control fleas, ticks and other listed insect pests on premises.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use in outdoor residential misting systems.

READ ENTIRE LABEL BEFORE EACH USE  
USE ONLY IN A WELL VENTILATED AREA  
USE ONLY ON DOGS AND ADULT CATS

[DO NOT TREAT DOGS UNDER 6 MONTHS OF AGE WITH THIS PRODUCT]  
[DO NOT TREAT CATS UNDER 7 MONTHS OF AGE WITH THIS PRODUCT]  
[DO NOT TREAT DOGS UNDER 6 MONTHS OF AGE OR CATS UNDER 7 MONTHS OF AGE WITH THIS PRODUCT]

FOR DOGS [CATS] [PETS]: Cover the animal's eyes with a hand. Do not spray directly on mouth, nose and eyes. Spray head, ears and chest until damp. With fingertips, rub into face, around mouth, nose and eyes. Then spray from the neck to the tail, finishing legs last. For best penetration of spray to skin and on heavily coated animals, direct spray against the natural lay of the hair, spraying the ruffled hair directly behind the hand. Make sure the spray thoroughly wets ticks. [When used on miniature and toy breeds of dogs or on cats, towel dry the animal after ½ hour if not totally dry.] Repeat treatment every 3 months. Avoid contact with genitalia.

[ ] OR ( ) indicates alternate or optional wording

FOR PUPPIES OVER 6 MONTHS AND KITTENS OVER 7 MONTHS: Wrap the animal in towel which has been sprayed lightly with this product. Leave eyes, nose and mouth exposed. Put some spray on the finger and gently rub around eyes, nose and mouth area. Keep the animal wrapped for 5 to 10 minutes. Fleas may then be removed from the coat by picking or combing. For best results, all dogs and cats should be treated with a similar flea control product such as [brand name] to prevent reinfestation of puppies and kittens. Do not spray directly on puppies and kittens. Repeat treatment every 3 months. Avoid contact with genitalia.

FOR USE IN PET [DOG] [CAT] AREAS AND OTHER AREAS WHERE [DOGS] [CATS] PETS FREQUENT: Except when applying to pets, do not allow adults, children or pets to enter until sprays have dried. Treat pet [dog] [cat] bedding and other pet [dog] [cat] resting areas as these are primary hiding areas for fleas and ticks. To reduce infestation, spray around sleeping area, around baseboards, window and door frames, wall cracks, local areas of floors and other resting places until the surface is slightly moist. Also spray the entire inside surface of dog houses, [animal holding areas]. For best results, treat pet bedding, animal quarters, and other resting area [other listed pet areas]. No need to remove pet bedding after treatment. Do not allow pets to use treated areas until completely dry. Do not apply more than 1 time per day. Do not wet articles to point of runoff or drip. Do not use treated article until spray has dried. Except when applying to pets, do not apply this product in a way that will contact adults, children, or pets, either directly or through drift. Remove or cover exposed food and drinking water before application. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them before use. Do not remain in treated area. Exit area immediately and remain outside the treated area until vapors and/or mists have dispersed.

TO CONTROL OTHER LISTED PESTS: Apply as a direct spray to control accessible stages of listed insects. Spray to thoroughly wet exposed insects. Direct spray into hiding places, cracks and crevices, along baseboards and around door and window frames. Repeat as needed.

Follow other manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

[ ] OR ( ) indicates alternative or optional wording

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations:

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Precautions and Restrictions:

Except when applying to pets, do not enter or allow others to enter treated area until sprays have dried.

Except when applying to pets, do not apply this product in a way that will contact workers or other persons, either directly or through drift.

Except when applying to pets, only protected handlers may be in the area during application.

Do not wet articles to point of runoff or drip. Do not use treated article until spray has dried.

Remove or cover exposed food and drinking water before application. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them before use.

Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.



[ ] OR ( ) indicates alternate or optional wording

PRECAUTIONARY STATEMENTS  
Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks and shoes and chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. This product is highly toxic to bees exposed to direct treatment or blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

**PHYSICAL OR CHEMICAL HAZARDS:** Flammable. Keep away from heat and open flame.

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF IN EYES:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5</li> </ul>

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[ ] OR ( ) indicates alternative or optional wording

	<p>minutes, then continue rinsing eye.</p> <ul style="list-style-type: none"> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>In case of emergency or for product information, call 800-324-2269. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal

**PESTICIDE STORAGE:** Do not use or store near heat or open flame. Store away from children.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill container. **If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Manufactured for:  
**FARNAM PET PRODUCTS**  
 A Division of Farnam Companies, Inc.  
 P.O. Box 34820  
 Phoenix, AZ 85067-4820