

100-1111
7-8-2003

1-14

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number NOTIFICATION
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Application for Pesticide - Section I

1. Company/Product Number 100-1111	2. EPA Product Manager Marion J. Johnson	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Archer® Insect Growth Regulator	PM# PM 10	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

JUL 08 2003

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
 This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Syngenta Crop Protection Inc., is submitting 2 copies (one with changes high-lighted) of labeling for Archer® Insect Growth Regulator (EPA Reg. No. 100-1111) which reorders the wording in a footnote of the "Recommended Application Rates" table on page 6 to clarify California usage. Specifically, we changed the statement "Only for use on Lone Star ticks in CA". It could easily be misinterpreted that it is only for use in CA for that one particular tick, instead of being for use on all ticks in all states except for Lone Star (only) ticks in CA. The statement has been revised to read "In CA, only for use on Lone Star ticks". The label code is SCP 1111A-M (NOTIF 7-3-03).

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Unit Packaging wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product				<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name John L. Hott, Ph.D.	Title Regulatory Product Manager	Telephone No. (Include Area Code) 336-632-7567
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamp)
2. Signature 		
3. Title Regulatory Product Manager	4. Typed Name John L. Hott, Ph.D.	
5. Date July 3, 2003		

2-14

Syngenta Crop Protection, Inc. Tel 336 632 6000
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Greensboro, NC 27419-8300
www.syngenta.com

OV



July 3, 2003

Document Processing Desk (NOTIF)
Office of Pesticide Programs (H7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

**Subject: Archer® Insect Growth Regulator EPA Reg. No. 100-1111
Notification of Reorder of Words in Footnote to Clarify California Usage**

Dear Ms. Hobgood,

Syngenta Crop Protection Inc., is submitting 2 copies (one with changes high-lighted) of labeling for Archer® Insect Growth Regulator (EPA Reg. No. 100-1111) which reorders the wording in a footnote of the "Recommended Application Rates" table on page 6 to clarify California usage. Specifically, we changed the statement "Only for use on Lone Star ticks in CA". It could easily be misinterpreted that it is only for use in CA for that one particular tick, instead of being for use on all ticks in all states except for Lone Star (only) ticks in CA. The statement has been revised to read "In CA, only for use on Lone Star ticks".

The label code is SCP 1111A-M (NOTIF 7-3-03).

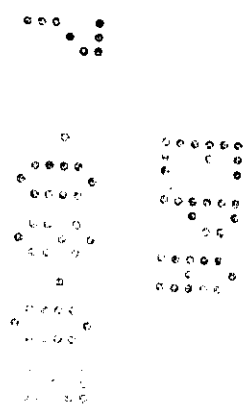
If you have any questions please contact me at (336) 632-7096.

Sincerely,

John L. Hott, Ph.D.
Regulatory Product Manager
Regulatory Affairs

Enclosures: 2 copies of labeling (1 high-lighted with changes)
EPA form 8570-1

cc: Marion J. Johnson PM 10



3-14

**ARCHER®
Insect Growth Regulator**

An insect growth regulator (IGR) for use in homes, apartments, schools, warehouses, offices, and other private, commercial or public buildings, in nonfood preparation areas of food handling and processing establishments, in transport vehicles, animal housing facilities, and outdoor perimeter treatments on and adjacent to buildings and structures, and in pet areas

Active Ingredient:	
2-[1-methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine ¹	1.3%
Other Ingredients*:	98.7%
Total:	110.0%

¹Pyriproxyfen

*Contains petroleum distillates

NOTIFICATION
JUL 08 2003

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

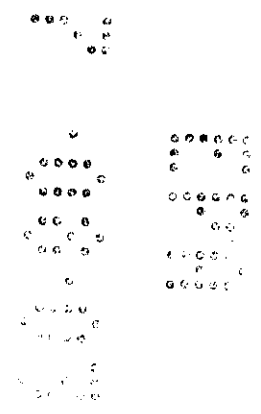
See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1111
EPA Est. XXXX

Product of Japan
Formulated in the USA

SCR 1111A-M (NOTICE 3-03)

Net Contents



FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15–20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15–20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
NOTE TO PHYSICIAN	
Contains petroleum distillate – vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOTLINE NUMBER	
For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

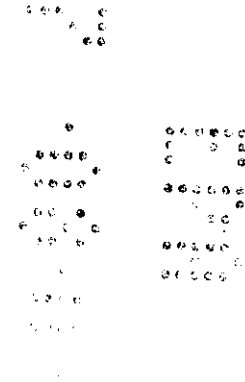
Harmful if swallowed or absorbed through skin. Do not breathe vapor or spray mist. Avoid contact with skin or eyes. In case of contact, flush with plenty of water. Wash with soap and warm water after use. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

Environmental Hazards

This product is toxic to fish and aquatic invertebrates. Do not apply directly to bodies of water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

Physical or Chemical Hazards

Do not use or store near heat or open flame.



DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all precautions and use directions completely before use.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL OR ILLEGAL RESIDUES.

GENERAL INFORMATION

For best results, follow directions for specific use areas. Do not use this product in or on electrical equipment due to possibility of shock hazard. Avoid excessive wetting of carpet, draperies, and furniture. Always test in a hidden area prior to use, as some natural and synthetic fibers may be adversely affected by any liquid product.

The active ingredient in Archer insect growth regulator is pyriproxyfen, an insect growth regulator (juvenile hormone mimic). Archer insect growth regulator acts similarly to insect growth hormones that occur naturally in insects and acts on the immature life stages of the target insect, preventing the adult from developing. In some species, such as fleas and flies, Archer insect growth regulator also has activity on adult insects by affecting the reproductive organs.

Archer insect growth regulator will control cockroaches, fleas, ants, litter beetles, crickets, ticks, and flying insect pests in and around homes, apartments, nonfood storage and preparation areas of agricultural, industrial, institutional and commercial buildings, and transport vehicles. Archer insect growth regulator may be used to create outside treated perimeter areas around structures with treatments to soil, mulch, perimeter landscape plantings or grass to prevent indoor invasion by listed pest species.

Archer may not be applied directly to raw agriculture, food/feed commodities in warehouses, or transportation vehicles, but may be applied in storage areas where food items are sealed, such as bottled, boxed, or canned items, so that food contact is not anticipated.

General Use Precautions

- Do not apply to occupied aircraft cabins.
- Do not allow adults, children, or pets to contact treated surfaces until area treated has completely dried.

Specific areas where treatments may be made include but are not limited to the areas listed below:

Examples of Specific Treatment Areas Include (but are not limited to): aircraft (cargo areas only), animal quarters, animal research facilities, apartments, attics, barns, bathrooms, basements, bedrooms, buses, cabinets, cabins, cargo holds, carpets, livestock housing (unoccupied), closets, commercial buildings, condominiums, crawl spaces, decks, dens, dog houses, dog kennels, dormitories, draperies, factories, floors, funeral parlors, garages, garbage cans, gazebos, homes, hospitals, hotels, industrial plants, institutions, jails, kennels, lawns, living rooms, locker rooms, mobile homes, motels, mulch, nursing homes, office buildings, outdoor pet or animal runs or enclosures, patios, perimeter landscape plantings, pet bedding, pet carriers, pet grooming parlors, pet living/sleeping areas, pet stores, porches, poultry houses (unoccupied), prisons, public buildings, railroad cars, recreation vehicles, rugs, schools and child care centers, ships, soil, storage areas, swine facilities (unoccupied), theaters, townhouses, trailers, trains, transport vehicles, upholstered furniture, utility rooms, veterinaries, warehouses, washrooms and yards.

Archer insect growth regulator is an emulsifiable concentrate.

- Use of Archer insect growth regulator provides a single IGR that provides effective control of cockroaches, fleas, ticks, ants, carpet and litter beetles, and flying insects by preventing the development of juvenile pest stages.
- Archer insect growth regulator can be used as part of an integrated pest management (IPM) program, in combination with other insecticides or alone, and as an aid to prevent the development of insecticide resistance.
- Archer insect growth regulator is photostable for up to 14 days, delivering effective residual control of outdoor pests such as fleas and cockroaches, even in areas with direct sunlight.
- Archer insect growth regulator does not cause stain or odor when used as directed.
- When used as directed, Archer insect growth regulator retains activity against pre-adult fleas for up to 7 months, and against pre-adult cockroaches for up to 6 months.
- Reduces egg production in house flies and prevents larval development into adults.

MIXING PROCEDURE

Archer insect growth regulator is intended to be mixed with water and applied with application equipment, such as hand-held, backpack, or power spray equipment. Prepare an application dilution by adding 1-2 oz./gal. of water according to the rate recommendation for the target pest as given above.

1. Fill applicator container ½ full with water.
2. Add the amount of Archer insect growth regulator to container as recommended in the rate table.
3. Shake, stir, or agitate.
4. Fill applicator tank with water to final volume recommended in rate table.
5. Shake, stir, or agitate again.
6. To assure the highest quality control, prepared dilutions should be used within 24 hours and should be shaken, stirred, or agitated again if diluted material is not used for several hours.

Treatments in Combination with an Adulticide

Archer insect growth regulator may be combined with other insecticides to enhance control of adult insects, such as Demand® CS, Prelude®, or Demon® WP insecticides. The combination provides for immediate control of adult fleas, cockroaches, crickets, and flying insects, while inhibiting the development of the immature stages of the pest insect. This application should conform to use precautions and use directions for both products.

APPLICATION PROCEDURES

Archer insect growth regulator should be mixed in water, utilizing the marked increments on the squeeze-and-pour bottle according to the following rates. For "crack and crevice" and "spot" treatment, follow the rate per gal. of water*. For "area" and "general surface" treatment, follow the rate per unit area** to ensure good coverage.

Recommended Application Rates:

Pest	*Amount of Archer per gal. of water	**Amount of Archer per unit area	Comments
Ants	2 fl. oz./gal. (0.02%)	2 fl. oz./1,000 sq. ft.	Apply to nesting and traveled areas.
Cockroaches, crickets	2 fl. oz./gal. (0.02%)	2 fl. oz./1,000 sq. ft.	Increase carrier (water) volume as necessary for good surface wetting (e.g., in mulch) along exterior walls.
Fleas, ticks ¹ , carpet beetles	1 fl. oz./gal. (0.01%)	1 fl. oz./1,500 sq. ft.	Increase carrier (water) volume as necessary for penetration of dense materials, e.g., thick carpet and vegetation along exterior walls.
Flying insects: (Flies, gnats, midges, mosquitoes, and moths)	1 fl. oz./gal. (0.01%)	1 fl. oz./1,500 sq. ft.	Wet surfaces used for resting and breeding.
Litter beetles: (Dermestids, darkling, hide ² , and carrion beetles ²)	1 fl. oz./gal. (0.01%)	1 fl. oz./1,500 sq. ft.	Wet surfaces used for resting and breeding. Increase carrier (water) volume as necessary for penetration of litter and bedding materials.

Common units of measure: 1 oz = 28 mL ; 1 pt = 16 oz; 1 gal. = 3.8 L

~~Use only for fleas, ticks, and ticks~~

¹Not approved for use in CA.

CONTROL OF FLEAS, TICKS, AND CARPET BEETLES

Archer insect growth regulator acts on immature stages of fleas, ticks, and beetles to prevent the development of adults. Archer insect growth regulator causes a gradual reduction and ultimate elimination of the pest population by breaking the reproductive cycle by stopping the development of immature pest stages. Archer insect growth regulator prevents the laying of viable eggs, affects the molting of flea larvae, and prevents normal pupae development into adult fleas. Archer insect growth regulator can sterilize adult female fleas, and can control adults by disruption of the reproductive organs.

If a high population of adult fleas, ticks, or carpet beetles is present, the use of an adulticide may be necessary for immediate control. Archer insect growth regulator may be combined with flea adulticides such as Prelude insecticide indoors, or Demand CS, or Demon WP insecticide products outdoors. Archer insect growth regulator complements the rapid activity of an adulticide by providing long-term control of pre-adult fleas for up to 7 months before they develop into biting adults. This application should conform to use precautions and directions for both products.

Flea and tick control on pets is important in the prevention of the introduction of adult fleas. Pets should be treated with an EPA-registered on-animal insecticide, or an effective flea powder, spray, dip, shampoo, or systemic (oral) product, as part of a complete flea control program in conjunction with the application of Archer insect growth regulator or Archer/adulticide combinations.

Archer insect growth regulator can be used prior to the flea and tick season. Application of Archer insect growth regulator in areas where pets and other animals are known to frequent, and where previous infestations have been known to occur, will prevent the emergence of adult ticks and fleas by affecting immature stages. This early usage could reduce the need for conventional insecticides when used alone as directed. Treatment of these areas before the fleas become biting and reproductive adults will aid in reducing developing populations.

Treatments to Interior Areas and Surfaces

Apply dilution of Archer insect growth regulator at the rate of 1 gal./1,500 sq. ft. of surface area, or in sufficient volume to achieve adequate coverage. Treat all areas that may harbor fleas, ticks, or carpet beetles, including carpets, furniture, pet sleeping areas, and throw rugs. Treat under cushions of upholstered furniture and where pets may rest.

- Prior to treatment, carpets, draperies, upholstered furniture, pet bedding or resting areas, and closets should be vacuumed thoroughly and the vacuum cleaner bag disposed of in an outdoor trash receptacle.
- If needed, repeat treatments with Archer insect growth regulator may be made 21 days after previous treatment.

Treatments to Perimeter Areas and Surfaces

To help prevent interior flea and tick infestations, make an outdoor perimeter treatment in a band 6-10 ft. wide adjacent to the foundation wall of residential and non-residential buildings, animal runs, and areas where the animals rest. Applications to those areas that are most frequented by pets will be most successful. Apply Archer insect growth regulator inside and within a 2-4 ft. banded area next to kennels and doghouses. Treatment of these areas will control the development of ticks and pre-adult fleas from becoming biting and reproductive adult fleas. Apply at the recommended rate to 1,500 sq. ft. in sufficient water to obtain good coverage. Apply directly to building, resting areas, walls, floor, animal bedding and run areas.

- If needed, repeat treatments with Archer insect growth regulator may be made 14 days after last treatment, or if heavy rainfall occurs, repeat as necessary.
- Remove animals before applying and do not return animals to treated areas until area treated has completely dried.

When making an application to vinyl siding, treat a small area and allow it to dry. Some types of vinyl siding, particularly if aged or weathered, may show some staining after application of an emulsifiable concentrate product.

CONTROL OF COCKROACHES (German, Asian, and Brown Banded) AND CRICKETS

Archer insect growth regulator acts on the nymph stages of cockroaches and crickets, preventing them from developing into adults. Repeated (weekly, monthly, or quarterly) applications of Archer insect growth regulator or Archer/adulticide combination will result in the development of cockroaches with twisted wings due to the IGR effects of Archer insect growth regulator -- these cockroaches are unable to reproduce. The unique properties of Archer insect growth regulator can break the breeding cycle of the cockroach population, when used as directed.

If a high population of adult cockroaches is present, the use of an adulticide insecticide such as Demand CS or Demon WP insecticides may be necessary for immediate control. Archer insect growth regulator complements the rapid activity of Demand CS, or Demon WP insecticides by providing long term (up to 6 months) control of cockroach nymphs before they become reproductive adults. Using Archer insect growth regulator in combination with cockroach adulticides is also a useful strategy to minimize the development of resistance in the German cockroach. This application should conform to accepted use precautions and directions for both products. Use Archer insect growth regulator at application rates specified above.

Treatments to Interior Areas and Surfaces

Apply dilution of Archer insect growth regulator at the rate of 1 gal./1,000 sq. ft. of surface area as a spot treatment, surface application, or crack and crevice application. Special attention should be paid to typical hiding places such as along and behind baseboards, beneath sinks, behind and beneath stoves, refrigerators, and cabinets. Apply to cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, storage areas, infested furniture, and the inside of cabinets and closets.

- Treat voids where pests can hide and similar areas.
- Repeat every 3 months or more frequently as necessary.

Treatments to Perimeter Areas and Surfaces

Apply dilution of Archer insect growth regulator in a band 6-10 ft. wide adjacent to the foundation wall of the structure, and apply to a height of 2-3 ft. on the foundation where pests may be active or may find entrance. Apply as a residual application around window frames, doors, garage doors, patios, carports, shutters, around garbage areas and other areas, where cockroaches may congregate.

- If needed, repeat treatments with Archer insect growth regulator may be made 14 days after previous treatment, or if heavy rainfall occurs, repeat as necessary.

Treatments In and Around Warehouses

Archer insect growth regulator may be applied as a general surface, fog, aerosol, spot, or crack and crevice treatment in nonfood storage warehouses or in warehouses where stored food items are limited solely to sealed, impervious packaging, such as bottled or canned items, so that food contact is not anticipated. Apply to all areas that may harbor pests, including under and between pallets. Warehouses used to store raw or cured tobacco may only be treated when empty and may only be used to store tobacco again when treatments have completely dried.

Treatments in Food Handling Establishments (Places other than private residences in which food is held, processed, prepared, or served)

Nonfood Areas

Archer insect growth regulator may be used to treat nonfood areas. Nonfood areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

Food Areas

Archer insect growth regulator is not approved for application to food areas. Do not use in food areas of food handling establishments, restaurants, or other areas where foods are commercially prepared or processed. May only be used in serving areas when facility is not in operation or food is not exposed. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food-processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Food areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups).

CONTROL OF LITTER BEETLES (Such as Darkling, Hide, and Carrion Beetles)

Archer insect growth regulator can be applied to litter, such as in poultry houses infested with litter beetles, to break the life cycle of these insect pests. When used as directed, Archer insect growth regulator will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Make uniform application of Archer insect growth regulator to litter at the rate of 1 oz. of Archer insect growth regulator concentrate per 1,500 sq. ft. space in sufficient volume of water to thoroughly wet the litter. For effective prevention of beetle larvae in litter, remove animals from immediate treatment area and old litter. Surface treatments immediately after animals are removed and again just prior to new animal placement are most effective. Adult egg-laying beetles can be killed with an adulticide, such as Demand CS. Application of adulticides to walls and floors at cleanout, before reintroduction of animals, will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. Do not contaminate food, feed, or water.

Apply Archer insect growth regulator uniformly at the rate of 1 oz. per 1,500 sq. ft. to floor area and to walls, posts, and cage framing (birds grown in cages only). Application should also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply Archer insect growth regulator or adulticide insecticides, or both, in a uniform band at least 1 ft. up and 1-4 ft. out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

CONTROL OF ANTS

Apply Archer insect growth regulator at the rate of 2 fl. oz. diluted in water per 1,000 sq. ft. to interior areas where ants are actively foraging, and in a band 6-10 ft. wide adjacent to the foundation wall of the building. Apply to ant trails and areas where ants may gain entrance to the structure. Archer insect growth regulator may be used in alternation or in a tank mix combination with an adulticide insecticide, such as Demand CS, Prelude, or Demon WP insecticides.

- If needed, repeat treatments with Archer insect growth regulator may be made 14 days after previous treatment, or if heavy rainfall occurs, repeat as necessary.

CONTROL OF FLYING INSECT PESTS (Such as Flies, Gnats, Midges, Mosquitoes, and Moths)

General Surface Treatments

For control of House Flies, Stable Flies, Moths, Mosquitoes, Nuisance Flies (Gnats, Midges), and other similar flying insect pests such as those classified as Dipterous or Hymenopterous. Archer insect growth regulator is similar to insect growth hormones that occur naturally in flies and other flying insects, having effects on both adult and juvenile stages. In house flies, Archer insect growth regulator causes a decrease in the number and hatching of eggs laid by treated adults. Fly larvae (maggots) show physiological and functional defects leading to the inability to develop into normal adults. When used alone, Archer insect growth regulator will result in a

reduction in adult fly populations after 3-4 weeks, when previously hatched adult flies have died naturally.

Archer insect growth regulator may be used for control of flying insect pests in those areas in, on, and around buildings as previously described under **General Information**. These areas include, but are not limited to residential, commercial, public, industrial, and agricultural buildings for the purposes of controlling general and occasional insect pests. Archer insect growth regulator may be used to control nuisance flies, gnats, midges, and mosquitoes by application into moist breeding areas (potted plants, moist debris, or litter) or into areas holding standing water, such as gutters, drains, pools, and fountains.

- Do not apply directly to any natural bodies of water, such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.
- If needed, repeat treatments with Archer insect growth regulator may be made 14 days after previous treatment, or if heavy rainfall occurs, repeat as necessary.

Treatments in Combination with an Adulticide

For knockdown and more rapid control of adult flying insect pests, or to control an influx of flies from untreated areas, use Archer insect growth regulator in alternation or in a tank mix combination with an adulticide insecticide, such as Demand CS, or Demon WP insecticides. As an IPM strategy, combining or alternating Archer insect growth regulator with other types of chemicals, such as pyrethroid or non-pyrethroid insecticides, can reduce or prevent the development of genetic resistance to these adulticide insecticides.

Tank Mixes

Make applications in accordance with those label instructions that are consistent for each product. Prepare the tank mix using the recommended label rate of adulticide and Archer insect growth regulator by adding the adulticide first and making sure it is well mixed and in suspension, then adding the correct amount of Archer insect growth regulator according to the label instructions below.

Archer insect growth regulator may be combined with an adulticide insecticide, such as Demand CS, that is registered for the control of flying insects. The combination would provide for immediate control of adult flying insects such as flies on resting surfaces, such as walls and overhead areas, while preventing immature insect stages from developing into adults. This combination application should conform to accepted use precautions and directions for both products. Use Archer insect growth regulator at application rates specified above and refer to other adulticide labels for specific rates and restrictions.

Treatments in, on, and Around Livestock and Poultry Housing and Pet Kennels

Archer insect growth regulator may be used by pest control operators or livestock producers in livestock housing structures (including poultry houses) and pet kennels to control flying insect pests. Apply as a general surface, fogger, aerosol, or a crack and crevice application to areas where flying pests collect or breed.

For surface applications, thoroughly wet floors, walls, ceilings, doors, around windows, garbage and refuse areas. When used as directed, Archer insect growth regulator will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.

- Treat bird cages or stock pens only after removal of animals.
- Do not make interior applications of Archer insect growth regulator in areas of facility where animals are present.
- Allow treated areas to dry before allowing animals back in treated areas of facility.
- Do not contaminate or apply to food or foodstuffs, water or watering equipment.

Treatments to Interior Areas and Surfaces

Use 1 fl. oz. of Archer insect growth regulator per gal. of water and apply to 1,500 sq. ft. of surface area, or in sufficient volume to achieve adequate coverage. Treat all areas where flying insects may collect, rest or breed, including vertical walls, ceilings, pipes, conduit, stalls, stanchions, floors, and walkways. When Archer insect growth regulator is used alone, treatments can be extended to animal bedding, manure, and other potential areas where flying insects may breed.

Treatments to Perimeter Areas and Surfaces

Use 1 fl. oz. of Archer insect growth regulator per gal. of water and apply to outside surfaces of buildings, porches, patios, garages, and other areas where these pests have been seen or found. For perimeter control, make a general surface application of 1 oz. of product diluted in water such as to cover 1,500 sq. ft., or in sufficient volume to achieve adequate coverage. To help prevent infestations of buildings by flying insects, treat soil, vegetation, or other substrates in a band 6-10 ft. wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage.

STORAGE AND DISPOSAL

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

Storage

Store in a cool, dry place. Keep container closed.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

Archer®, Demand®, Demon®, Prelude®, and the Syngenta logo are trademarks of a Syngenta Group Company.

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For non-emergency (e.g. current product information) call
Syngenta Crop Protection at 1-800-334-9481.

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 1111A-MAS (NOTIF 7-3-03)

Chron

4-7-03 – Accepted -Revised First Aid per PR Notice 2001-1; modified warranty statement; revised storage and disposal; made changes per Technical Specialist's recommendations.

7-3-03 – NOTIF- Reordered wording in footnote of "Application Rate" table to clarify California usage.