

67760-104

7/24/2012

10418



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

Jennifer L DeCarlo
Cheminova Inc
1600 Wilson Blvd , Ste 700
Arlington, VA 22209

JUL 24 2012

Subject Proaxis, EPA Reg No 67760-104
Application Dated May 1, 2012
Decision 465201

Dear Ms DeCarlo

The labeling referred to above, submitted in connection with registration under the Federal insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable

Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment A stamped copy of the label is enclosed for your records If you have any questions, you may contact Samantha Hulkower at (703) 603-0683 or Hulkower Samantha@epa.gov

Sincerely,

Mark Suarez
Product Manager (13)
Insecticide Branch
Registration Division (7505P)

Enclosure Copy of Label Stamped "Accepted" JUL 24 2012

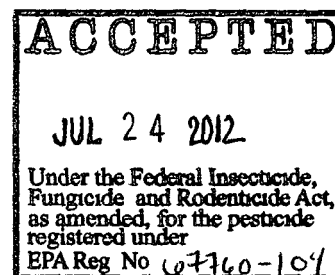
Proaxis®

Controlled Release Premise Insecticide

- A microencapsulated insecticide for use on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs, around residential, institutional, public, commercial, agricultural and industrial buildings, parks, recreational areas and athletic fields, and livestock/poultry housing and pet kennels *[optional marketing statement]*
- For control of litter beetles, flies, fleas, mosquitoes, ants, bees, wasps, crickets, pillbugs, scorpions, sowbugs spiders, and ticks *[optional marketing statement]*
- For control of litter beetles, fleas, flies and other listed pests of livestock/poultry housing, pet kennels, railcars, trucks and trailers *[optional marketing statement]*
- Effective against adults and immature Darkling, Hide and Carrion beetles *[optional marketing statement]*
- Can be reapplied at 21-day intervals *[optional marketing statement]*
- Highly concentrated *[optional marketing statement]*
- Micro-encapsulated formula ensures slow release *[optional marketing statement]*
- One quart treats up to 48,000 square feet when treating for litter beetles *[optional marketing statement]*
- Treats up to 24,000 square feet when treating for litter beetles *[optional marketing statement]*
- Dilution rate of 1-2 oz per 3 gallons of water *[optional marketing statement]*
- Can be used on entire footing, crack and crevice or banded applications *[optional marketing statement]*
- CapVantage™ Technology *[optional marketing Logo]*

Active Ingredient
 Gamma-cyhalothrin Cyclopropanecarboxylic
 acid 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-
 2,2-dimethyl cyano(3-phenoxyphenyl)
 methyl ester 5.9%
 Other Ingredients 94.1%
 Total 100.0%

Contains 0.5 pounds of active ingredient per gallon
 Contains petroleum distillate



Keep Out Of Reach Of Children

CAUTION PRECAUÇION

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)

Refer to label booklet for Directions for Use

Apply this product directly to lawn or garden area. Water treated area as directed on this label. Do not water to the point of run-off.

Do not make applications during rain.

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

Notice Shake well before use. Avoid freezing. Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-866-303-6950.

EPA Reg. No. 67760-104

EPA Est. xxxx

®Registered trademark of Cheminova, Inc.

Cheminova, Inc.
P.O. Box 110566
One Park Drive, Suite 150
Research Triangle Park, NC 27709

Proaxis®

Premise Insecticide

A microencapsulated insecticide for use on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs, around residential, institutional, public, commercial, agricultural and industrial buildings, parks, recreational areas and athletic fields, and livestock/poultry housing and pet kennels
[optional statement]

Keep Out Of Reach Of Children

CAUTION PRECAUCION

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)

Notice Read entire label Use only according to label directions

Cheminova Inc
P O Box 110566
One Park Drive Suite 150
Research Triangle Park NC 27709

Precautionary Statement

Hazards to Humans and Domestic Animals

CAUTION Causes moderate eye irritation Harmful if swallowed Avoid contact with eyes skin or clothing Wash thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet Remove contaminated clothing and wash clothing before reuse Wear safety glasses or goggles long sleeve shirt long pants shoes and socks and chemical - resistant gloves Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals

Skin exposure may also result in a sensation described as tingling itching burning or prickly feeling Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours without damage Wash exposed areas thoroughly with soap and water Relief from skin sensation may be obtained by applying an oil-based cream

First Aid

If in eyes 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 swallowed Call a poison control center or doctor immediately for treatment advice Do not induce vomiting unless told to do so by a poison control center or doctor Do not give **any** liquid to the person Do not give anything by mouth to an unconscious person

Note to Physician Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent Vomiting should be induced only under professional supervision

Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1-866-303-6950 for emergency medical treatment information

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife 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 Rinsing application equipment over the treated area will help to avoid run off to water bodies or drainage systems

Do not allow applications to contact water inhabited by fish such as aquariums and ornamental fish ponds that are located in and around structures being treated

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area

Physical and Chemical Hazards

Do not use or store near heat or open flame

Do not use PROAXIS Premise insecticide in conduits motor housings junction boxes switch boxes or other electrical equipment because of possible shock hazard

Directions for Use

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

Do not dilute this product with oil

Apply this product directly to lawn or garden area Water treated area as directed on this label Do not water to the point of run-off

Do not make applications during rain

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

Let treated surfaces dry before allowing humans and pets to contact these surfaces

This product is RESTRICTED for use in New York State

All outdoor applications must be limited to spot or crack-and-crevice treatments only except for the following permitted uses

- 1 – Treatment to soil or vegetation around structures
- 2 – Applications to lawns turf and other vegetation
- 3 – Applications to building foundations up to a maximum height of 3 feet

Other than applications to building foundations all outdoor applications to impervious surfaces such as sidewalks driveways patios porches and structural surfaces (such as windows doors and eaves) are limited to spot and crack-and-crevice applications only

PREMISE AND PERIMETER PEST CONTROL

Proaxis Premise Insecticide is for use as a general surface (nonfood/nonfeed areas) crack and crevice or spot treatment in on and around buildings and structures and their immediate surroundings and on modes of transport Areas of use include industrial buildings houses patios porches closets furniture apartment buildings mobile homes laboratories buses greenhouses (non-commercial) stores factories warehouses wineries vessels railcars trucks trailers aircraft (cargo and other non-cabin areas only) schools nursing homes hospitals mausoleums restaurants hotels correctional facilities livestock/poultry housing pet kennels food granaries food grain mills and food manufacturing processing and servicing establishments

Nonfood/nonfeed areas of food/feed handling establishments include 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)

For indoor applications **Proaxis Premise Insecticide** can be reapplied at 21-day intervals if necessary

Mixing Instructions

Dilute **Proaxis Premise Insecticide** with water for application using hand-held or power-operated application equipment as a coarse spray for crack and crevice or spot and general surface (non-food/nonfeed areas only) treatments Application equipment that delivers low volume treatments such as the Micro-Injector[®] or Actisol[®] applicator may also be used to make crack and crevice or spot and general surface treatments Fill applicator tank with the desired volume of water and add **Proaxis Premise Insecticide** Close and shake before use in order to ensure proper mixing Shake or reagitae applicator tank before use if application is interrupted Mix only amount of treatment volume as required **Proaxis Premise Insecticide** may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment

Tank Mixing

Proaxis Premise Insecticide may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label A small volume mixing test with the other products is recommended to ensure compatibility If other chemicals are added to the applicator tank **Proaxis Premise Insecticide** should be added last If mixed with EC formulations use within 24 hours Fill tank to desired volume and continue to agitate while making applications

Proaxis Premise Insecticide may be tank mixed with an Insect Growth Regulator (IGR) Observe all restrictions and precautions which appear on the labels of these products

Foam Applications

Proaxis Premise Insecticide may be converted to a foam and the foam used to treat premise voids to control or prevent pests including ants bees termites (above ground only) wasps or other arthropods harboring in walls under slabs or in other void areas

RATES FOR PESTS (HAND APPLICATION EQUIPMENT)

Pests	Dilution Rate (Concentration of AI)	Specific Use Directions
Ants Bedbugs (adult) Bees Boxelder Bugs Carpenter Bees Carpet Beetles Centipedes Cigarette Beetles	Rate range 0.0075% AI 0.16 fl oz (5 mL) / gal water 0.5 fl oz (15 mL) / 3 gal water	Ants Apply to any trails around doors and windows and other places where ants may be found Locate and treat nests Where ants are trailing inside apply as a residual surface treatment to active areas such as baseboards corners around pipes in and behind cabinets behind and under

<p>Clover Mites Cockroaches(1) Confused Flour Beetles Crickets Earwigs Firebrats Fleas(2) Flies (including House flies stable flies little house flies) Lesser Grain Borers Millipedes Mosquitoes Red Flour Beetles Rice Weevils Saw toothed Grain Beetles Silverfish Sowbugs Spiders Ticks Wasps</p>	<p>Up to 0 015% AI 0 33 fl oz (10 mL) / gal water 1 0 fl oz (30 mL) / 3 gal water</p>	<p>refrigerators sinks furnaces and stoves cracks and crevices When combining baits and residual surface insecticides apply surface insecticides in cracks and crevices along baseboards and infested surfaces and outside barrier treatments Use baits in other areas that are untreated by residual insecticides also see Outdoor Surfaces Use</p> <p>Bedbugs Clean floors and surfaces by vacuuming Apply as a coarse low pressure spray to harborage areas including crevices baseboards loose plaster behind bed frames and headboards beneath beds and furniture and to bedsprings and bed frames Do not apply to furniture surfaces or mattresses where people will be laying or sitting Infested bedding should not be treated but should be removed placed in sealed plastic bags and taken for laundering and drying at high temperatures</p>
<p>Cockroaches(1) Crickets(6) Flies(5)Litter beetles(3) (Darkling Hide and Carrion beetles) Mosquitoes(4) Pillbugs Scorpions Sowbugs Spiders(6) Spider Mites (Two-spotted Spruce) Ticks(6)</p>	<p>0 03% AI 0 65 fl oz (20 mL) / gal water 2 0 fl oz (60 mL) / 3 gal water</p>	<p>Cockroaches Crickets Earwigs Firebrats Silverfish and Spiders Apply as a coarse low pressure spray to areas where these pests hide such as baseboards corners storage areas closets around water pipes doors and windows attics and eaves cabinets behind and under refrigerators sinks furnaces and stoves the underside of shelves drawers and similar areas Pay particular attention to cracks and crevices also see Outdoor Surfaces Use</p> <p>Bees Flies, Mosquitoes and Wasps Apply directly to walls ceilings window screens and other resting areas as a residual surface treatment May be used inside residential buildings as well as in and around carports garages and storage sheds also see Outdoor Surfaces Use Use caution when treating nests of stinging insects as Proaxis Premise Insecticide does not provide instant knockdown Protective equipment for the applicator may be required Treat bee wasp and hornet nests late in the day when most insects will be present Allow 2 3 days fo the colony to die and repeat if necessary</p> <p>Carpenter Bees Apply coarse spray to thoroughly wet wood surfaces where bees have been previously active or to provide protection against further damage Apply early in the spring to prevent bees from invading wood When bees have infested wood surface applications can help control embedded larvae and bees that</p>

		<p>emerge from the wood</p> <p>Pantry Pests (i e Carpet beetle Cigarette beetle Confused flour beetle Lesser grain borer Red flour beetle Rice weevil and Saw toothed grain beetle) Apply to cupboards shelving and storage areas Remove all utensils uncovered foodstuffs (or any having original package opened) and shelf paper before making application Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils foodstuff or other items Any foodstuff accidentally contaminated with treatment solution should be destroyed</p> <p>Boxelder Bugs Centipedes, Millipedes Pillbugs, and Sowbugs Apply around doors and windows and other places where these pests may be found or where they may enter premises Treat baseboards storage areas and other locations Apply barrier treatments to prevent infestation as described below also see Outdoor Surfaces Use</p> <p>Fleas and Ticks To control nuisance fleas and ticks (e g dog ticks) apply to kennels yards runs and other areas where pets may frequent To control ticks apply using a coarse fan spray to vegetation brush branches rock walls and other areas near habitation where ticks may harbor or frequent Treat entire area rather than spot treatments and retreat monthly to maintain control Do not apply to pasture or cropland and do not allow animals and people access to treated areas until the deposit has dried Applications can begin in the spring and can continue until frost to control both larvae and adult ticks also see Outdoor Surfaces Use</p> <p>Cluster Flies Apply in late summer or early fall before flies are observed alighting on surfaces Apply thoroughly on siding under eaves and around windows and doors paying particular attention to south facing surfaces but do not allow runoff to occur Heavy precipitation prior to frost may require retreatments to maintain protection In winter and spring when flies become active and are emerging interior crack and crevice and void treatments can help reduce the infestation along with ULV or general surface application in infested attics or unoccupied lofts</p> <p>Litter Beetles (Darkling, Hide and Carrion Beetles) and Flies In Animal Housing (Such As Poultry Houses)</p>
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		<p>To control adult litter beetles apply PROAXIS PREMISE INSECTICIDE to walls and floors at cleanout before reintroduction of animals. This 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. To help control flies apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals also see Livestock/Poultry Housing Structures and Pet Kennels</p>
<p>Termites (above ground only)</p>	<p>0.03% AI 0.65 fl oz (20 mL) / gal water 2.0 fl oz (60 mL) / 3 gal water</p>	<p>Proaxis Premise Insecticide may be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subterranean termites soil treatment labeled termiticides or fumigation for extensive infestation of drywood termites or other wood-infesting insects but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations get a professional inspection.</p>
<p>Note One gallon finished dilution typically treats 500 – 1000 sq ft ¹For cockroaches the recommended rate for maintenance treatments is 0.0075% and for clean out treatments is 0.015%. For control of severe infestations use 0.03% rate ²For outdoor use only and use 0.015% rate ³ Use the 0.015% (0.33 fl oz (10 mL) / gal water) rate for light beetle infestation ⁴For residual control use 0.03% rate ⁵In all states except California rates for flies may be increased to 0.03% when environmental conditions are severe and/or populations are high ⁶For clean out/severe infestations use 0.03% rate *</p>		
<p>Conversion Rate 1 fluid ounce (fl oz) equals 29 milliliters (mL)</p>		

Application Within Food Handling Establishments

For places other than private residences in which exposed food is held processed prepared or served including but not limited to areas for receiving storage packing (canning bottling wrapping boxing) preparing foods edible waste storage and enclosed processing systems (mills dairies edible oils syrups) and serving areas

Use as a crack and crevice or spot treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide in points between different elements of construction between equipment and floor openings leading to voids and hollow spaces in walls equipment and bases. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments may not exceed two sq ft. Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

Application Within Food Serving Areas

For facilities where foods are served such as dining rooms Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards under elements of construction and into cracks and crevices Avoid treating surfaces likely to be contacted by food (Do not apply when facility is in operation or foods are exposed) Food must be covered or removed in area being treated Do not apply directly to food or allow applications to contaminate food

NOTE Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted Use of application equipment such as the Micro-Injector or Actisol applicator in food areas should be limited to crack and crevice treatment only

Livestock/Poultry Housing Structures and Pet Kennels PROAXIS Premise Insecticide may be used as a general surface and/or crack and crevice treatment Treat interior and exterior perimeter applications in and around livestock poultry and pet housing structures for optimum control Suitable cleaning practices of the structure must also be followed along with applications of PROAXIS Premise insecticide to effectively control the listed insects

LITTER BEETLES To control adult litter (darkling hide and carrion beetles) beetles in animal housing including poultry housing apply PROAXIS Premise insecticide to walls and floors at each grow-out or sanitation procedure before reintroduction of poultry or other animals Re-apply after each grow-out or sanitation procedure to control beetles that escaped earlier treatment and delay the onset of further infestations Beetles frequently occur in areas such as on walls supports cages stalls and around feeders so pay careful attention to these places For poultry houses where birds are grown on litter treat the floor area For poultry houses where birds are grown in cages treat the walls posts cage framing and into cracks and crevices around insulation Also apply as a perimeter treatment around the outside of the building foundations to prevent beetles from entering from outside To prevent populations from reaching a problem level a year-round maintenance program is highly recommended

RESTRICTIONS

- **DO NOT** make applications of PROAXIS Premise insecticide in areas where animals except for cattle and calves are present in the facility Allow treated surfaces to dry completely before restocking the facility
- **DO NOT** make applications to any animal feedstuffs water or watering equipment
- **DO NOT** contaminate any animal food feed or water in and around livestock poultry or pet housing when making applications

Outdoor Surfaces And Perimeters

To control flies fleas mosquitoes ants bees wasps centipedes cockroaches crickets pillbugs scorpions sowbugs spiders termites* (above ground only) ticks and other listed pests apply PROAXIS Premise Insecticide with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to external surfaces of buildings porches screens door and window frames eaves patios garages refuse dumps and other areas where insects rest or congregate PROAXIS Premise Insecticide may also be applied to lawns around non-residential buildings or to refuse dumps or other non-residential areas where these insect pests congregate Remove all exposed food and cooking utensils Cover all food handling surfaces or wash thoroughly after treatment and before use Do not use on edible crops

For Perimeter treatments apply a continual band of insecticide around building foundations and around windows doors service line entrances eaves vents and other areas to reduce the potential for entry by crawling pests Before application remove debris and leaf litter from next to the foundation cut back vegetation and branches that touch the foundation and move or rake back rocks deep mulch or other potential pest harborage next to the foundation Apply the band up to 10 ft wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 ft and around windows doors and roof overhangs Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active

Amount of concentrate is dependent upon pest species (see pest table and comments) infestation levels
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and service interval desired

*May be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subterranean termites, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

Rate Table For Perimeter Barrier Applications

Application Rate Fl oz (mL) of PROAXIS Premise Insecticide	Gals of Water ¹	Area of Coverage (sq ft)
0.16 fl oz (5mL)	1-5 gals	800-1600 sq ft
0.33 fl oz (10 mL)	1-5 gals	800-1600 sq ft
0.65 fl oz (20mL)	1-5 gals	800-1600 sq ft

¹Application volume may be greater than 5 gals /800-1600 sq ft if required under heavy vegetative or landscaping materials in order to obtain desired coverage

Examples Of Dilutions For Perimeter Barrier Applications

Application Volume Gals of Solution per 1,000 sq ft	Application Rate Fl oz (mL) of PROAXIS Premise Insecticide per 1,000 sq ft	Fl oz (mL) of PROAXIS Premise Insecticide to Dilute in Water According to Spray Tank Volumes		
		5 gals	10 gals	50 gals
1 gal per 1 000 sq ft	0.16 fl oz (5mL) 0.33 fl oz (10mL) 0.65 fl oz (20 mL)	0.80 fl oz (25 mL) 1.65 fl oz (50 mL) 3.3 fl oz (100 mL)	1.6 fl oz (50 mL) 3.3 fl oz (100 mL) 6.5 fl oz (200 mL)	8 fl oz (250 mL) 16 fl oz (500 mL) 33 fl oz (1000 mL)
2 gal per 1 000 sq ft	0.16 fl oz (5mL) 0.33 fl oz (10mL) 0.65 fl oz (20 mL)	0.40 fl oz (12.5 mL) 0.80 fl oz (25 mL) 1.65 fl oz (50 mL)	0.80 fl oz (25 mL) 1.65 fl oz (50 mL) 3.3 fl oz (100 mL)	4 fl oz (125 mL) 8 fl oz (250 mL) 16 fl oz (500 mL)
5 gal per 1 000 sq ft	0.16 fl oz (5mL) 0.33 fl oz (10mL) 0.65 fl oz (20 mL)	0.16 fl oz (5mL) 0.33 fl oz (10mL) 0.65 fl oz (20 mL)	0.33 fl oz (10 mL) 0.65 fl oz (20 mL) 1.65 fl oz (50 mL)	1.6 fl oz (50 mL) 3.3 fl oz (100 mL) 6.5 fl oz (200 mL)

Example calculation to apply the mid-rate of PROAXIS Premise Insecticide at a volume of 5 gal /1000 sq ft mix 3.3 oz of concentrate in 50 gallons of water. The percent active ingredient in the finished PROAXIS Premise Insecticide dilution can be calculated with the following formula

mL needed to add times 5.9% active in concentrate divided by gal finished dilution times 3785 mL/gal = % active in dilution (Example 3.3 oz in 50 gal is 100 mL times 5.9 equals 590 and 50 gal times 3785 is 189250. Dividing 590 by 189250 equals 0.003% active in the tank dilution.)

NOTE Do not use water based sprays of PROAXIS Premise Insecticide in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using PROAXIS Premise Insecticide. PROAXIS Premise Insecticide has not stained or caused damage to painted or varnished surfaces.

plastics fabrics or other surfaces where water applied alone causes no damage However treat a small area and allow to dry to determine whether staining will occur

LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES

RESTRICTIONS

- DO NOT use this product with oil
- DO NOT apply this product in any room being used as living eating sleeping or recovery area by patients the elderly or infirm when they are in the room
- DO NOT apply to institutions (including libraries sports facilities, etc) in the immediate area when occupants are present
- DO NOT apply to classrooms when in use
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed
- DO NOT allow applications to contact water inhabited by fish such as in aquariums and ornamental fish ponds that are located in/around structures being treated

LAWNS/TURFGRASS AND ORNAMENTALS

PROAXIS Premise Insecticide may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional public commercial and industrial buildings parks recreational areas and athletic fields (Including trees shrubs flowers evergreens foliage plants and groundcovers) Application rates for turf and ornamentals are lower than premise pest control rates reflecting that treatment intervals are more frequent

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of **PROAXIS Premise Insecticide** away from structures such as to turf and ornamental plantings Premise pest control certification categories may limit the distance away from structures for pesticide application Consult your state extension office or pesticide regulatory officials for further information

IMPORTANT Time application to flowering plants during periods when pollinating insects are not present such as early morning or late evening

RESTRICTIONS

- **DO NOT** apply this product through any type of irrigation system
- **DO NOT** apply this product to edible crops
- **DO NOT** apply this product by aerial application
- Use of this pesticide adjacent to water may affect aquatic organisms To protect these organisms **DO NOT** apply this pesticide within 25 ft of lakes reservoirs rivers permanent streams marshes or natural ponds estuaries and commercial fish farm ponds
- **DO NOT** make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater
- In the state of New York **DO NOT** apply within 100 ft of coastal marshes or streams that drain into coastal marshes

Mixing Instructions

PROAXIS Premise Insecticide is to be mixed with water and may be used in all types of standard application equipment Fill applicator tank with the desired volume of water and add **PROAXIS Premise Insecticide** It is suggested that the water be 5 - 7 pH Adjust water pH with a buffering agent if necessary Slowly add **PROAXIS Premise Insecticide** to applicator tank water with maximum agitation Close and shake or reagitrate applicator tank before use if application is interrupted Make up only amount of treatment volume as required

Tank Mixing

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PROAXIS Premise Insecticide may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, **PROAXIS Premise Insecticide** should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours.

Observe all restrictions and precautions which appear on the labels of these products.

INSECT CONTROL on ORNAMENTAL PLANTS

PROAXIS Premise Insecticide is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

NOTE: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution.

It is advised to prespray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

RESTRICTIONS

- **DO NOT** apply more than 0.18 lbs of the a.i. (46.1 fl. ozs. of concentrate) per acre per year.

TANK DILUTION RATES FOR ORNAMENTAL PESTS

Pest	Amount Of PROAXIS Premise Insecticide	Application Instructions
Ants (Including Imported fire Ants)	1.3-4.4 fl. oz. per 100 gals	Application to ornamentals should be started prior to the establishment of high insect pest populations.
Armyworms	or	Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.
Azalea caterpillars	39 - 132 mL per 100 gals	Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.
Aphids		For spot treatments use 0.44 fl. oz. PROAXIS Premise Insecticide per 1 - 2.5 gals. of water.
Bagworms		Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.
Black vine weevils (adult)		Scale: Thoroughly cover the plant with PROAXIS Premise Insecticide spray, including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).
Boxelder bugs		Bagworm: Apply PROAXIS Premise Insecticide when bagworm larvae begin to hatch. Spray directly on the larvae. Application is
Budworms		
California oakworms		
Cankerworms		
Cockroaches		
Crickets		
Cutworms		
Eastern tent caterpillars		
Elm leaf beetles		
European sawflies		
Fall webworms		
Flea beetles		
Forest tent caterpillars		
Gypsy moth larvae		
Japanese beetles (adults)		
June beetles (adults)		
Lace bugs		
Leaf-feeding caterpillars		
Leafhoppers		
Leafminers (adults)		
Leaf rollers		
Leaf skeletonizers		

Midges Mosquitoes Oleander moth larvae Pillbugs Pine sawflies Pine shoot beetles Pinetip moths Plant bugs Root weevils Sawflies Scale insects (crawlers) Spiders Spittlebugs Striped beetles Striped oakworms Thrips Tip moths Tussock moth larvae Wasps		the most effective when the larvae are young
Broadmites Brown softscales California redscales (crawlers) Clover mites Mealybugs Pineneedlescales (crawlers) Spider mites Whiteflies	2.6 – 4.4 fl oz per 100 gals or 78 - 132 mL per 100 gals	

PROAXIS Premise Insecticide Mixing Chart for Ornamental Insect Pest Control

(PROAXIS Premise Insecticide to add per spray tank)

Rate of PROAXIS Premise Insecticide	25 Gals	50 Gals	100 Gals	200 Gals	300 Gals
1.32 oz ¹	0.30 oz	0.70 oz	1.32 oz	2.6 oz	3.96 oz
2.64 oz ²	0.70 oz	1.30 oz	2.64 oz	5.3 oz	7.92 oz
4.4 oz ³	1.10 oz	2.20 oz	4.40 oz	8.8 oz	13.2 oz

¹ Equivalent to 3.2 mL per 1,000 sq ft (4.7 oz per acre) when applied at 8 gal per 1,000 sq ft
² Equivalent to 6.3 mL per 1,000 sq ft (9.3 oz per acre) when applied at 8 gal per 1,000 sq ft
³ Equivalent to 10.6 mL per 1,000 sq ft (15.6 oz per acre) when applied at 8 gal per 1,000 sq ft

LAWN/TURFGRASS INSECT PEST CONTROL

PROAXIS Premise Insecticide is for use to control the pests listed in the table below around such areas as residential institutional public commercial and industrial buildings parks recreational areas and athletic fields

RESTRICTIONS

KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION

- DO NOT apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation)
- DO NOT apply more than 0.18 lbs of a.i. (46.1 fl oz of concentrate) per acre per year

RATES FOR LAWN AND TURFGRASS PESTS

Pest	Amount Of PROAXIS Premise Insecticide *	Application Instructions
Ants (Including Imported Fire Ants) Armyworms Centipedes Crickets Cutworms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adult) Millipedes Mites Mosquitoes (adult) Pillbugs Sod webworms Sow bugs Ticks (including species which transmit Lyme disease)	3.0 – 6.1 mL per 1 000 sq ft or 4.4 – 8.8 fl oz per acre	Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. To keep pest populations under control, using higher rates as pest pressure increases. Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments. For spot treatments use 0.20 fl oz of PROAXIS Premise Insecticide per 1 - 2.5 gals of water. Surface Insect Control (armyworm, cutworms, fleas, etc) Apply PROAXIS Premise Insecticide at recommended rates in 2 - 5 gals of water per 1 000 sq ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 - 24 hours to control surface-feeding insect pests.
Bluegrass billbugs (adult) Black turfgrass ataenius (adult) Chiggers Fleas (adult) Grubs (suppression) Hyperodes weevils (adult) Mole crickets (nymphs and young adults)	6.1 mL per 1 000 sq ft or 8.8 fl oz per acre	otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 - 24 hours to control surface-feeding insect pests. Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc) Apply PROAXIS Premise Insecticide at recommended rates in 2 - 10 gals of water per 1 000 sq ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to 1/2 inch of water to move the PROAXIS Premise Insecticide into the thatch layer. If irrigation is not available then use high water application rates. Subsurface Insect Control (mole crickets, grubs, etc) Apply PROAXIS Premise Insecticide at recommended rates in 4 - 10 gals of water per 1 000 sq ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply PROAXIS Premise Insecticide to turf wet with dew, rain or irrigation. Water-in immediately after application with 1/4 - 1/2 inch of water. Fire Ant Control Treat individual mounds with a drench application using a watering can. Use 0.20 fl oz of PROAXIS Premise Insecticide per 2.5 gals of water. Thoroughly soak each mound and a 3 ft diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening.

	hours You may make applications on a monthly basis to maintain protection of treated areas
	Mosquito Control Apply as a general spray around landscape plantings turf and building foundations to control mosquitoes Apply PROAXIS Premise Insecticide at recommended rates in 2 - 5 gals of water per 1 000 sq ft
¹ Not for use on mature adult mole crickets and chinch bugs in New York state	
* Example To treat the listed turf pests at the 3.5 mL per 1 000 sq ft rate determine the gallons of dilution per 1 000 sq ft needed to adequately cover the turf At a 5 gallon per 1 000 sq ft dilution take the 3.5 mL and divide it by the 5 (gallon) to get 0.7 mL to be added per gallon For a 50 gallon tank therefore this would be 0.7 mL X 50 = 35 mL (or 1.25 oz) in 50 gallons of water	
Conversion Rate 1 fluid ounce (fl oz) equals 29 milliliters (mL)	

PROAXIS Premise Insecticide Mixing Chart for Turf Insect Pest Control

(PROAXIS Premise Insecticide to add per 100 gal spray tank)

Rate of Proaxis Premise insecticide (Fl oz per ac)	App Rate per 1000 Sq Ft of Turf (oz)					
	2 gal	4 gal	5 gal	6 gal	8 gal	10 gal
4.4 oz per ac	5.1	2.5	2.0	1.7	1.3	1.0
6.6 oz per ac	7.6	3.8	3.0	2.5	1.9	1.5
8.8 oz per ac	10.1	5.1	4.0	3.4	2.5	2.0
Conversion rate 1 fluid ounce (fl oz) equals 29 milliliters (mL)						

INTEGRATED PEST AND RESISTANCE MANAGEMENT

Many insects have demonstrated the ability to develop resistance to insecticides. Frequent exposure of flies and other insects to a single class of insecticide may lead to the development of resistance to that class of insecticide. The following resistance management strategy will help ensure the prolonged usefulness of this and other conventional insecticides.

- Use PROAXIS Premise insecticide and other insecticides only according to label directions
- Do not use less than the labeled rate of any insecticide
- Include multiple cultural and/or biological controls within an Integrated Pest Management Program
- Rotate PROAXIS Premise insecticide with other classes of insecticide (naturalytes, phenyl pyrazoles, chloronicotinyls, and organophosphates, etc.) during an insect pest season.

For advice concerning integrated pest management practices in relation to local conditions, consult resources in resistance management programs, your Cooperative Agricultural Extension Service or your Cheminova Animal Health representative (1-800-303-6950).

<p>Storage and Disposal</p> <p>Do not contaminate water, food, or feed by storage and disposal.</p>
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Pesticide Storage Store in original containers only Keep container closed when not in use Do not store near food or feed Do not store near heat or open flame **Do not allow product to freeze**

In case of spill or leak on floor or paved surfaces soak up with sand earth or synthetic absorbent Remove to chemical waste area

Pesticide Disposal Pesticide wastes are acutely hazardous Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law If wastes cannot be disposed of according to label directions contact your State Pesticide or Environmental Control Agency or Hazardous Waste representative of the nearest EPA Regional Office for guidance Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility

Nonrefillable Containers 5 gallons or less

Container Disposal Nonrefillable container Do not reuse or refill this container Offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke

Triple rinse or pressure rinse container (or equivalent) promptly after emptying **Triple rinse** as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/4 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times

Nonrefillable Containers 5 gallons or larger

Container Disposal Nonrefillable container Do not reuse or refill this container Offer for recycling if available

Triple rinse or pressure rinse container (or equivalent) promptly after emptying **Triple rinse** as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times **Pressure rinse** as follows Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds Drain for 10 seconds after the flow begins to drip

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- (1) Refund of purchase price paid by buyer or user for product bought or
- (2) Replacement of amount of product used

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