

Insect Growth Regulator

Concentrate with Nylar[®]

3140 3141

- *Inhibits reinfestation by fleas for up to 7 months.*
- *Effective long-term control.*
- *I.G. Regulator is photostable for up to 14 days, proving residual control of outdoor pests such as fleas and cockroaches, even in areas with direct sunlight.*
- *Reduces egg production in houseflies and prevents development of larvae into adults.*
- *Inhibits reinfestation by listed cockroaches for up to 180 days 6 months.*

ACTIVE INGREDIENT:

2-{1-Methyl-2-(4-phenoxyphenoxy) ethoxy} pyridine.....1.30%

*OTHER INGREDIENTS.....98.70%
100.00%

*Contains petroleum distillate

Nylar[®] -Registered trademark of McLaughlin Gormley King Co.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

IF SWALLOWED: Call a physician or Poison Control Center immediately. Do not induce vomiting because of aspiration pneumonia hazard.

IF ON SKIN OR CLOTHING: Remove contaminated clothing and wash before reuse. Wash skin with soap and warm water. Get medical attention if irritation persists.

For information regarding medical emergencies or pesticide incidents, call the Internal Poison Center at 1-888-740-8712

PRECAUTIONARY STATEMENTS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Do not breath vapors 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.

ENVIROMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water or areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning or equipment or disposal or equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

For use in areas such as:

Animal quarters (enclosed premise treatment), Apartments, Atriums, Automobiles, Bathrooms, Basements, Bedrooms, Boats, Buses, Cabinets, Cabins, Cafeterias, Campers, Campsites, Carpet, Cat living quarters (enclosed premise treatment), Chests, Closed porches, Closets, Cloths storage, Commercial Buildings, Condominiums, Crawl spaces, Crematoriums, Day Care Centers, Decks, Delicatessens, Dens, Dog Houses, Dog Living Quarters, Dog Kennel Runs, Dormitories, Draperies, Dressers, Drive-Ins, Drugstores, Fabric Storage Areas, Factories, Floors, Funeral Parlors, Furniture, Garages, Garbage areas, Garbage Cans, Gazebos, Homes, Hospitals, Hotels, Indoor Eating Establishments, Industrial Plants, Institutional Dining Areas, Institutions, Jails, Kennels, Kitchens, Lanais, Lawns, Living Rooms, Locker Rooms, Mausoleums, Mess Halls, Mobile Canteens, Mobile Homes, Morgues, Mortuaries, Motels, Nursing Homes, Office Buildings, Other Public Buildings, Outdoor Eating Establishments, Pantry, Parks, Patios, Pet Bedding, Pet Grooming Parlors, Pet Sleeping Areas, Pet Stores, Pet Quarters (enclosed premise treatment), Play Houses, Play Rooms, Rugs, Schools, Ships, Shutters, Side Yards, Solariums, Sport Stadiums, Storage Areas, Sun Rooms, Sun Porches, Supermarkets, Taverns, Theaters, Town Houses, Trailers, Trains, Transportation Vehicles, Tree Houses, Upholstered Furniture, Utility Room Indoor, Utility Room Outdoor, Vending Machines, Verandas, Veterinaries, Warehouses, Washrooms, and Zoos.

DIRECTIONS FOR USE

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

READ ALL DIRECTIONS COMPLETELY BEFORE USE.

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 an inconspicuous area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.

FOR FLEA CONTROL:

The active ingredient in *I.G. Regulator* is Nylar[®], an insect growth regulator. Nylar[®] is similar to insect growth hormones that occurs naturally in insects and acts on the immature life stages of the flea, preventing the adult flea from developing. Flea eggs deposited on treated areas will not develop into adult fleas. Flea larvae crawling onto treated surfaces will also not develop into adult fleas. The unique properties of Nylar[®] eliminates the flea population, when used as directed. Nylar[®] causes a gradual reduction and ultimate elimination of the flea population by breaking the reproductive cycle. Nylar[®] stops the flea life cycle and inhibits the development of the immature stages of the flea for 7 months preventing them from reaching the biting adult stage. Existing adult fleas and flea pupae are not affected.

If a high population of adult fleas are present, the use of an adulticide may be necessary for immediate relief. This concentrate may also be combined with a flea adulticide. The I.G. Regulator complements the rapid activity of the adulticide by providing long term control of preadult fleas before they grow up to be biting adults.

Flea control on pets is important in the prevention of adult fleas. Pets, their bedding and the areas they frequent should also be treated with EPA registered flea and tick control products, Flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick shampoo, as part of a complete flea control program in conjunction with this application to minimize the introduction of adult fleas.

I.G. Regulator can be used prior to the flea season. Application of this product 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 fleas and also control stages of fleas that don't resemble fleas. This early usage could reduce the need for conventional insecticides when used alone as directed. Pretreatment of these areas before the fleas become biting and reproductive adults will aid in reducing developing populations.

INDOORS:

Prior to treatment, carpets, draperies, and upholstered furniture should be vacuumed thoroughly and the vacuum cleaner disposed of in an outdoor trash receptacle. Remove pets from area to be treated. After treatment, do not allow children and pets into treated areas until spray has dried.

INSTRUCTIONS FOR USE: *I.G. Regulator* is intended to be mixed with water and applied with spray equipment such as any low pressure sprayer typically used for indoor applications.

SPRAY PREPARATION: Prepare a diluted spray solution by adding 1 ounce per gallon of water. Partially fill the mixing container with water, add *I.G. Regulator*, agitate and fill to final volume. Do not allow spray mixture to stand overnight. Mix before each use.

IN CONJUNCTION WITH AN ADULTICIDE INSECTICIDE: *I.G. Regulator* may be combined with an insecticide registered for adult control of fleas. The combination would provide immediate relief of adult fleas and inhibit the development of the immature stages of the flea for 7 months. This application should conform to accepted use precautions and directions for both products. Use *I.G. Regulator* at application rates specified above.

General Surface Application:

Apply *I.G. Regulator* diluted spray at the rate of 1 gallon per 1,500 square feet of surface area. Treat all areas which may harbor fleas, including carpets, furniture, pet sleeping areas and throw rugs. Treat under cushions of upholstered furniture. Do not allow children or pets to contact treated surfaces until spray had dried. Repeat as necessary.

IN KENNELS AND DOGHOUSES:

Treatment of these areas will control the development of preadult fleas from becoming biting and reproductive adult

fleas. Using an adjustable hose-end sprayer, tank type sprayer or sprinkling can, prepare a diluted spray solution adding 1 ounce per gallon of water.

Apply at a rate of 1 gallon diluted solution per 1,500 square feet of surface area. Apply to building, resting areas, walls, floor, animal bedding, and run areas. Remove animals before spraying and do not allow animals or children to return to treated areas until spray has dried completely. Pets and their bedding should also be treated with EPA registered flea and tick control products, such as flea or flea and tick collar, pet dust, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick shampoo, in conjunction with this application as a part of complete flea control program to prevent the introduction of adult fleas. Repeat as necessary.

OUTDOORS:

Apply *I.G. Regulator* dilution, as a spot treatment, to areas where pets normally frequent including, but not limited to under trees, ornamental plants and shrubs. *I.G. Regulator* acts on the immature life stages of the flea, preventing the development of adult fleas. Flea eggs deposited on treated areas will not develop into adult fleas. Flea larvae crawling onto treated surfaces will also not develop into adult fleas. The unique properties of *I.G. Regulator* eliminate the flea population, when used as directed. *I.G. Regulator* is similar to growth regulators that occur naturally in insects, thereby controlling the flea population by inhibiting reproduction. *I.G. Regulator* causes a gradual reduction and ultimately eliminates the flea population by breaking the reproductive cycle. Avoid soaking young or flowering plants. Existing adult fleas and flea pupae are not affected by this concentrate. Application on soil surfaces will provide 21 days of IGR activity. Treat lawn area with an EPA registered lawn treatment product to kill adult fleas if a large population exists.

SPRAY PREPARATION: Using a Hose-end sprayer, tank-type sprayer or sprinkling can, prepare a diluted spray solution by adding 1.0 ounce in 5 to 15 gallons of water, depending on equipment used, to cover 1,000 square feet. Partially filling the sprayer with water, add *I.G. Regulator*, agitate and fill with water to the final volume. Agitate each spray.

Spray using a slow, even sweeping motion, being sure to cover surface areas where the pets normally frequent. One (1) tsp. Per gallon will cover 333 square feet for spot treating pet resting areas. Do not allow the spray mixture to stand overnight. Caution should be taken to avoid spraying when wind conditions could create a mist to blow back to applicator. Do not apply this product in or around bodies of water. Repeat application in 21 days.

Remove animals before spraying and do not allow animals or children to return to treated areas until spray has dried completely. Pets and their bedding should also be treated with EPA registered flea and tick control products, such as flea or flea and tick collar, pet dust, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick shampoo, in conjunction with this application as a part of a complete flea control program to prevent the introduction of adult fleas.

FOR GERMAN, ASIAN, AND BROWN BANDED COCKROACH AND CRICKET CONTROL:

The active ingredient in *I.G. Regulator* is Nylar[®] an insect growth regulator. Nylar[®] is similar to insect growth hormones that occur naturally in insects and acts on the immature life stages of the cockroach and cricket preventing nymphal cockroaches and crickets from developing into adults. Shortly after application of this concentrate, cockroaches with twisted wings will begin to appear indicating that Nylar[®] has taken effect- those cockroaches with twisted wings are unable to reproduce. The unique properties of Nylar[®] eliminates the cockroach population and crickets, when used as directed. One treatment works for 6 months against hatching cockroaches and crickets.

If high population of adult cockroaches are present, the use of an adulticide may be necessary for immediate relief. Nylar[®] causes a gradual reduction in the cockroach population by interrupting the life cycle of the cockroach and preventing the cockroaches from breeding. This concentrate may also be combined with a cockroach adulticide. *I.G. Regulator* compliments the rapid activity of the adulticide by providing long-term control of cockroach nymphs before they become breeding adults.

INDOORS:

INSTRUCTIONS FOR USE: *I.G. Regulator* is intended to be mixed with water and applied with spray equipment such as any low pressure sprayer typically used for indoor applications.

SPRAY PREPARATION: Prepare a diluted spray solution by adding 2 ounces per gallon of water. Partially fill the mixing container with water, add *I.G. Regulator*, agitate and fill to the final volume. Agitate before each spray. Do not allow spray mixture to stand overnight.

IN CONJUNCTION WITH ADULTICIDE INSECTICIDE: *I.G. Regulator* may be combined with an insecticide registered for adult control of cockroaches. The combination would provide immediate relief of adult cockroaches and inhibit the development of the immature stages of the cockroach for 6 months. This application should conform to accepted use precautions and directions for both products. Use *I.G. Regulator* at application rates specified above.

GENERAL SURFACE APPLICATION:

COCKROACHES: Brown banded cockroaches, Asian cockroaches, German Cockroach, and cricket: Apply diluted spray at the rate of 1 gallon per 1,000 square feet of surface area as a spot treatment, surface application and crack and crevice spray. Contact as many insects as possible with this spray in addition to thorough spraying of all parts of the room suspected of harboring these pests. Special attention should be paid to hiding places such as beneath sinks, behind and beneath stoves and refrigerators, 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, infested furniture and the inside of cabinets and closets hitting insects with spray whenever possible. Repeat as necessary.

OUTDOOR PERIMETER TREATMENTS:

Prepare a diluted spray solution by adding 2 ounces per gallon of water into any low-pressure sprayer. At the rate of 1 gallon per 1,000 feet, apply in a band 2 to 4 feet adjacent to and around the structure and apply to a height of 2 to 3 feet on the foundation where pests may be active or may find an entrance. Apply spray around window frames, doors, garage doors, patios, decks, carports, shutters, around garbage areas, sill plate and other areas where cockroaches may congregate. Avoid spraying into the air. Caution should be taken to avoid spraying when wind conditions could create a mist to blow back to the applicator. Do not apply this product in or around bodies of water. Repeat as necessary.

NOTE: NOT LABELED FOR USE IN AREAS OF FOOD HANDLING ESTABLISHMENTS

IN CONJUNCTION WITH CARPET SHAMPOO: *I.G. Regulator* may be combined with a liquid, non-heat extracting, carpet shampoo application. Following dilution instructions on carpet shampoo, add 1 ounce per gallon of water into shampoo dilution to be applied to carpet. Mix well and shampoo carpet as per instructions on the shampoo product label. Allow carpet to completely dry and vacuum thoroughly.

SPOT AND CRACK AND CREVICE APPLICATION: Apply *I.G. Regulator* diluted spray solution using a pressurized spray system capable of delivering a pin-point or variable spray pattern. Crack and crevice applications may be made directly to areas such as but not limited to crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas. Spot treatments may also be made to areas including but not limited to storage areas, closets, around water-pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, and other equipment, shelves, drawers and similar areas.

WAREHOUSES: *I.G. Regulator* may be applied as a general surface, fogger, spot or crack and crevice treatment in nonfood storage warehouses or in warehouses where stored food items are limited solely to either bottled or canned items, so that food contact is not anticipated. Apply to all areas that may harbor pests, including under and between pallets.

TREATMENTS IN FOOD HANDLING ESTABLISHMENTS (Places other than private residences in which

food is held, processed, prepared or served):

Nonfood Areas: *I.G. 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: *I.G. 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 LITER BEETLES (Such as Darkling, Hide and Carrion Beetles): *I.G. Regulator* can be applied to litter, such as in poultry houses infested with litter beetles, to break the lifecycle of these insect pests. When used as directed, *I.G. Regulator* will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Make uniform application of *I.G. Regulator* to litter at the rate of 1 oz. of *I.G. Regulator* per 1,000 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 treatment immediately after animals are removed and again just prior to new animal placement are most effective. Adult egg-laying beetles can be killed with fast-acting adulticides. 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 *I.G. Regulator* uniformly at the rate of 1 oz. per 1,000 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 grow-out or sanitation procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply *I.G. Regulator* or adulticide insecticides, or both, in a uniform band at least one foot up and 1-4 out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

CONTROL OF ANTS: Apply *I.G. Regulator* at the rate of 2 fluid oz. diluted in water per 1,000 sq. ft. to interior areas where ants are actively foraging, and in a band 6-10 feet wide adjacent to the foundation wall of the building. *I.G. Regulator* may be used in alternation or in a tank mix combination with an adulticide insecticide.

- • If needed, repeat treatments with *I.G. 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, Moths, Midges, Mosquitoes & Gnats):**General Surface Treatments:**

For control of HOUSE FLIES, STABLE FLIES, MOTHS, MOSQUITOES, NUISANCE FLIES (GNATS, MIDGES) and other similar flying pest insects such as those classified as Dipterous or Hymenopterous. *I.G. 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 houseflies *I.G. 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, *I.G. Regulator* will result in a reduction in adult fly populations after 3-4 weeks when previously hatched adult flies have died naturally.

I.G. Regulator may be used for control of flying insect pests in those areas in, on and around buildings as previously described under **DIRECTIONS FOR USE**. 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. *I.G. 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.

- • Does not apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.
- • If needed, repeat treatments with *I.G. 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 *I.G. Regulator* in alternation or in a tank mix combination with an adulticide insecticide. As an IPM strategy, combining or alternating *I.G. Regulator* with other types of chemicals, such as pyrethroid or organophosphate 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 *I.G. Regulator* by adding the adulticide first and making sure it is well mixed and in suspension, then adding the correct amount of *I.G. Regulator* according to the label instructions below.

I.G. Regulator may be combined with an adulticide insecticide. 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 *I.G. 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:

I.G. Regulator may be used by pest control operations or livestock producers in livestock housing structures (including poultry houses) and pet kennels to control flying insect pests. Apply as a general surface, fogger/UVL 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, *I.G. 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 birdcages or stock pens only after removal of animals.
- • Do not make interior applications of *I.G. 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 food or foodstuffs, water or watering equipment.

Treatments to interior areas and surfaces:

Use 1 fl. oz. of *I.G. Regulator* per gallon of water and apply to 1,500 square feet 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, 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 *I.G. Regulator* per gallon of water and apply to outside surfaces of building, porches, patios, garages

and other areas where these pests have been seen or found. For perimeter control, make a general surface application of 1 ounce of product diluted in water such as to cover 1,500 square feet, 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 feet 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

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

DISPOSAL: Do not reuse empty container. Wrap container in several layers of newspaper and discard in garbage.

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EPA Reg. No. 53883-60
EPA Est. No. 53883-TX-002