

1021-1603

03/13/2009

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



OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Miriam Frugis
Registration Specialist
McLaughlin Gormley King Company
8810 10th Ave., North
Minneapolis, MN 55427

MAR 13 2009

Subject: Notification(s) for Label Revisions under PRN 2007-4 and 98-10
1. Changes to Directions for Use – added metric units to section

Dear Ms. Frugis:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 dated February 2, 2009 for:

EPA Registration 1021-1424
EPA Registration 1021-1603

MGK Pyroicide Fogging Concentrate 7338
Nylar 10 EC

The Registration Division (RD) has conducted a review of the request(s) for applicability under 2007-4 and finds that the label changes requested fall within the scope of 2007-4. The label has been date-stamped "Notification" and will be placed in our records.

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

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

	United States Environmental Protection Agency Washington, DC 20460	Registration Amendment Other	OPP Identifier Number
		X	

Application for Pesticide - Section I

1. Company/Product Number 1021-1603	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) NYLAR ® 10EC	PM# 10	
5. Name and Address of Applicant (Include Zip Code) McLAUGHLIN GORMLEY KING COMPANY 8810 TENTH AVENUE NORTH MINNEAPOLIS, MN 55427 <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 _____

NOTIFICATION

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Section - II

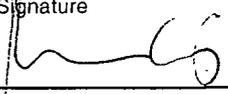
<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/>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

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 Notifications Per PR-Notice 2007-4 and PR-Notice 98-10
 change: storage and disposal language and add metric units to the Directions for Use.
 no changes in application rates.

Section - III

1. Material This Product Will Be Packaged In:				
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" 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. 20X30g syringe 4X110 ml bottle		No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 110 ml bottle 30 g syringe		5. Location of Label Directions <input checked="" 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"/> Other <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Miriam Frugis	Title Registration Specialist	Telephone No. (Include Area Code) (763) 544-0341
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 (Stamped)
2. Signature 	3. Title Registration Specialist	
4. Typed Name Miriam Frugis	5. Date 2/2/2009	

NYLAR 10EC - 0209

NYLAR® 10E

MGK®

**McLAUGHLIN
GORMLEY
KING COMPANY**

8810 Tenth Avenue N. / Minneapolis, Minnesota 55427-4319 U.S.A. - Telephone (763) 544-0341

For use in the home and in Food and Non-food areas of Restaurants, Food Processing Plants, Food Warehouses, Grocery Stores and Supermarkets, Schools, Office Buildings, Apartments, Hotels and Motels, Hospitals, Tobacco Plants and Warehouses, Manufacturing Plants, Commercial and Industrial Buildings, Transportation Equipment such as Automobiles, Boxcars, Buses, Boats, Trucks, Railcars, Ship Cargo Holds, and outside on Lawns and Building Perimeters.

Insect Growth Regulator breaks the cycle of insect reproduction to control Fleas, Stored Product Pests, Cockroaches, Mosquitoes, Flies, Lone Star Ticks and other listed insect pests.

[] OR () indicates alternate or optional wording

[Emulsifiable Concentrate with Insect Growth Regulator for Control of Fleas, Stored Product Pests, Listed Roaches, Crickets, Litter Beetles, and Flying Insects

NYLAR 10EC [or brand name] is an insect growth regulator similar to the naturally occurring insect growth hormones which interferes with [stops] their growth or development

NYLAR 10EC [or brand name] stops [prevents] the flea and certain listed cockroaches from developing into egg laying adults

NYLAR 10EC [or brand name] can be used as part of an integrated pest management [IPM] program

NYLAR 10EC [or brand name] can be a biorational approach to insect control

NYLAR 10EC [or brand name] keeps working in areas exposed to the sun for up to 14 days

Continuous protection against stored product pests for 3 months.

Labeled for use in food areas of food handling establishments.

Labeled for Spot, Crack and Crevice, and Fogging use in food handling establishments.

Inhibits reinfestation by fleas for up to [210 days] [30 weeks] [7 months]

If adult fleas are introduced from untreated areas, their offspring will not become biting [reproductive] adults

Kills preadult [larval] fleas, including eggs for [210 days] [30 weeks] [7 months]

Prevents larval fleas from developing into the biting adult stage

Prevents [stops] hatching fleas [preadult (larval) fleas] [eggs (hatching eggs) (larvae)] from becoming full grown [developing into] biting adults

One treatment works for [210 days] [30 weeks] [7 months] against hatching fleas [preadult (larval) fleas] [eggs (hatching eggs) (larvae)]

Prevents new [tomorrow's] fleas from growing up to bite

NYLAR 10EC [or brand name] activity keeps working for [210 days] [30 weeks] [7 months]

Effective long term control

Controls [stops (kills) (prevents)] stages of fleas that don't resemble fleas

Prevents [stops] the emergence of adult fleas

Flea eggs deposited on treated areas will not develop into adult fleas

Larvae crawling onto treated areas will not develop into adult fleas

NYLAR 10EC [or brand name] acts on the immature life stage of the flea, preventing it from developing into biting adults

Prior to the flea season, previously known infested areas can be pretreated to reduce the developing population

NYLAR 10EC [or brand name] can be used alone or in combination with other insecticides and as an aid to prevent the development of insecticide resistance

NYLAR 10EC [or brand name] is photostable for up to 14 days, providing 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 (maggots) into adults

Effectively breaks certain listed cockroach life cycle

NYLAR 10EC [or brand name] keeps working on listed cockroaches for 180 days [26 weeks] [6 months]

Works with nature to interrupt [break] the life cycle of listed cockroaches

Inhibits reinfestation by listed cockroaches for up to 180 days [26 weeks] [6 months]

Effectively controls [eliminates] listed cockroach populations by preventing reproduction [thereby eliminating future generations]

Prevents [stops] [inhibits] listed nymphal cockroaches from becoming adults [breeding adults] [reproductive adults] [egg laying adults]

One treatment stops listed cockroaches from generating reproductive offspring for [180 days] [26 weeks] [6 months]

Breaking the Cycle™

[Labeled for use in food areas of food handling establishments.]

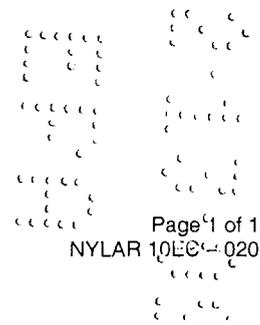
[Works to break the life cycle of listed insects.]

[Effective Indoors and Outdoors.]

ACTIVE INGREDIENT:

2-[1-Methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine [Pyriproxyfen]..... 10.00%

OTHER INGREDIENTS 90.00%



100.00%

NYGUARD®, NYLAR®, and MGK® - Registered trademarks of McLaughlin Gormley King Company
Breaking the Cycle™ - Trademark of McLaughlin Gormley King Company

NOTIFICATION
MAR 13 2009

KEEP OUT OF REACH OF CHILDREN
CAUTION

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.
NOTE TO PHYSICIAN: 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. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-740-8712.	

Net Contents _____
Manufactured by:

Mc LAUGHLIN GORMLEY KING COMPANY
8810 Tenth Avenue North

EPA Reg. No. 1021-1603 Minneapolis, MN 55427 EPA Est. No. 1021-MN-2

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Do not induce vomiting because of aspiration pneumonia hazard. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

Cover or remove all food and food processing surfaces. Thoroughly wash all food processing surfaces before reuse. After spraying in bakeries, meat packing plants, food processing plants, etc., all benches, shelving, equipment, etc. where exposed food will be handled must be washed with an effective compound followed by a potable water rinse to remove all traces of contamination. Food processing operations do not have to be stopped while applying a wet spray with care and in accordance with the directions and cautions above in those establishments which do NOT operate under Federal meat, poultry, shell egg grading and egg products inspection program.

ENVIRONMENTAL HAZARDS

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

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

GENERAL INFORMATION

NYLAR 10EC [OR BRAND NAME] is a non-repellent Juvenile Hormone (JH) Mimic. It disrupts the normal development of the immature life stages of listed insects, with either complete or incomplete metamorphosis, preventing successful development of the adult stage. Depending upon the insect species and life stage at the time of exposure, the observed results can include: decreased egg viability, sterile adult insects incapable of reproduction, suspension of insect in immature life stages, reduced fitness of insect, behavioral changes, reduced egg production, morphological defects - deformed insects and death. When used in an Integrated Pest Management (IPM) program, NYLAR 10EC [OR BRAND NAME] breaks the reproductive cycle of listed insects, and aids in the prevention of insect resistance.

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.

STAINING: NYLAR 10EC [or brand name] is generally non-staining. If staining is a concern, test final spray solution in an inconspicuous area prior to use, as some fibers or surfaces (such as vinyl siding) may be adversely affected by an application of this, or any liquid product.

Prior to using in commercial or residential food areas, please refer to the Food Handling Establishment Applications section of the label. The preparations prior to treatment and the clean up after application described are also to be followed for residential use.

In hospitals, nursing homes or in any rooms occupied by the elderly or infirmed, remove patients before treating rooms. If application is done as a surface spray, or crack and crevice application, patients may re-enter once the spray has dried. If application is a ULV Fog or space spray, patients may return to the room after it has been thoroughly ventilated.

In institutions (including libraries, sports facilities etc.) applications may be made while the facility is in use, provided treatment is not made in the immediate area where people are present.

USE SITES:

NYLAR 10EC [or brand name] is effective when used in both indoor and outdoor areas such as:

Agricultural Buildings	Buses	Cupboards
Aircraft (cargo areas only)	Cabinets	Dairies
Animal Quarters	Cabins	Day Care Centers
Animal Housing Facilities	Cafeterias	Decks
Animal Research facilities	Calf Hutches	Delicatessens
Apartment Buildings	Campers	Dens
Apartments	Campsites	Detention Centers
Appliances	Candy Plants	Dining Halls
Assisted Living Facilities	Meat & Produce Canneries	Dog Houses
Atriums	Cargo Holds	Dog Kennels
Attics	Carpets	Dog Runs
Automobiles	Casinos	Dormitories
Backyards	Cereal Processing Facilities	Drains
Bakeries	Cemeteries	Draperies
Barns	Chests	Dressers
Bathrooms	Child Care Centers	Drive-Ins
Basements	Closed Porches	Drugstores
Bed Frames	Closets	Egg Production Facilities
Bedrooms	Clothes Storage	Equipment
Boats	Coffee Houses	Equipment Voids
Boiler Rooms	Colleges	Fabric Storage Areas
Bookshelves	Commercial Buildings	Factories
Bottling Facilities	Compost	Farm Buildings
Boxcars	Composting Sites	Farms
Box Springs	Condominiums	Farmyards
Breweries	Convenience Stores	Feedlots
Building Exteriors	Crawl Spaces	Floors
Building Foundations	Crematoriums	Flour Mills
Building Perimeters		Food Handling Areas
Food Packing Plants	Mausoleums	Ship Cargo Holds
Food Processing Plants	Meat Processing Plants	Shutters
Food Storage Areas	Mess Halls	Side Yards
Food Warehouses	Mobile Canteens	Soil
Foundations	Mobile Homes	Solariums
Funeral Parlors	Morgues	Spas
Furniture	Mortuaries	Sports Stadiums
Garages	Motels	Stored Food Areas
Garbage Areas	Mulch	Stored Food Warehouses
Garbage Cans	Nursing Homes	Stores
Gas Stations	Office Buildings	Storage Areas
Gazebos	Offices	Stockyards
Grain Storage Facilities	Other Public Buildings	Sun Rooms
Grass	Outdoor Eating Establishments	Sun Porches

Grocery Stores	Pantries	Supermarkets
Headboards	Parks	Swine Production Facilities
Health Clubs	Patios	Taverns
Homes	Pet Areas	Theaters
Hospices	Pet Bedding	Tobacco Plants and Warehouses
Hospitals	Pet Carriers	Town Houses
Hotels	Pet Grooming Parlors	Trailers
Indoor Eating Establishments	Pet Sleeping Areas	Trains
Industrial Buildings	Pet Stores	Transportation Vehicles
Industrial Plants	Pet Quarters	Tree Houses
Institutional Dining Areas	Play Houses	Trucks
Institutional Buildings	Play Rooms	Universities
Institutions	Porches	Upholstered Furniture
Jails	Poultry Houses	Utility Room Indoor
Kennels	Prisons	Utility Room Outdoor
Kitchens	Public Buildings	Vending Machines
Laboratories	Railroad Cars	Verandas
Lanais	Recreational Areas Indoors	Veterinaries
Landscape Plants	Recreational Areas Outdoors	Warehouses
Landscaping	Recreation Vehicles	Washrooms
Lawns	Residential Homes	Yards
Libraries	Restaurants	Zoos.
Livestock Housing	Rooms	
Livestock Production Facilities	Rugs	
Living Rooms	Schools	
Locker Rooms	Septic Tanks	
Manufacturing Plants	Ships	
Marine Vessels		
Mass Merchandising Stores		
Mattresses		

Pests in the Orders Acari, Anoplura, Blattodea, Coleoptera, Dermoptera, Diptera, Heteroptera, Hymenoptera, Lepidoptera, Orthoptera, Psocoptera, Siphonaptera, as well as certain other orders are susceptible in varying degrees to NYLAR 10EC [or brand name]'s active ingredient. Specific pests that NYLAR 10EC [or brand name] has shown to significantly disrupt the life cycle are:

Almond Moths	Drain Flies	Madeira Cockroaches
American Cockroaches	Drugstore Beetles	Mealworms
Angoumois Grain Moths	Elm Leaf Beetles	Merchant Grain beetles
Ants	Face Flies	Midges
Asian Cockroaches	Field Cockroaches	Mosquitoes
Asian Lady Beetles	Filter Flies	Moths
Australian Cockroach	Fleas	Pennsylvania Wood Cockroaches
Beetles	Flies	Phorid Flies
Black Carpet Beetles	Florida Stinkroach	Psocids
Booklice	Fruit Flies	Red Flour Beetles
Bottle Flies	Fungus Gnats	Rice Moths
Boxelder Bugs	German Cockroaches	Rice Weevil
Brown Cockroaches	Granary Weevils	Saw-tooth Grain Beetles

Brownbanded Cockroaches	Ground Beetles	Sewage Flies
Cat Fleas	Hide Beetles	Silverfish
Cheese Skippers	Horntails	Small Dung Flies
Cigarette Beetles	Horn Flies	Smoky Brown Cockroaches
Cinereous Cockroaches	House Flies	Stable Flies
Clothes Moths	Indian Meal Moths	Surinam Cockroaches
Cockroaches	Khapra Beetles	Surinam Cockroaches
Confused Flour Beetles	Lesser Grain Borers	Tobacco Moths
Copra Beetles	Lone Star Tick	Turkestan Cockroaches
Crickets	Ticks	Vinegar Flies
Darkling Beetles	Litter Beetles	Warehouse Beetles
Dermestid Beetles		

GENERAL MIXING INSTRUCTIONS:

Mix concentrate with water and apply with equipment capable of delivering coarse wetting surface spray, fogging (space spray / mist), spot, crack and crevice spray applications, professional foam applicator or with a paintbrush, roller or similar device. Partially fill the sprayer with water, add required amount of concentrate in sprayer, agitate and fill to final volume. Agitate before each spray.

Tank mixing: NYLAR 10EC [or brand name] may be tank mixed with other registered pest control products, unless either product label prohibits tank mixing. Use the resulting tank mixture in accordance with the more restrictive label limitations and precautions of the mixed products. Make applications in accordance with those label instructions that are consistent for each product. To prepare the tank mix, add the tank mix partner first and make sure it is well mixed and in suspension, then add the correct amount of NYLAR 10EC [OR BRAND NAME] according to the label instructions below.

Do not tank mix with Vapona or Malathion. These products are antagonistic to NYLAR 10EC [or brand name]'s active ingredient.

GENERAL APPLICATION INSTRUCTIONS:

Use NYLAR 10EC [or brand name] both indoors and outdoors as a general surface spray, ULV/fog or space spray application, spot treatment or crack and crevice application. Application may be made using power sprayers, hand pump sprayers, void injectors, in carpet shampoo, using a paintbrush, roller, professional foam applicator, or similar device.

SURFACE APPLICATIONS: Apply diluted spray as a spot treatment, broadcast surface application and crack and crevice spray. Thoroughly treat areas where insects travel, breed, rest, hide or harbor. Special attention should be paid to applying spray solution to harborage and hiding places where conditions support insect population growth and reproduction.

ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION:

NYLAR 10EC [OR BRAND NAME] may be applied as a fog or an ultra-low volume (ULV) application with equipment such as Foggers, ULV equipment, mechanical misting sprayers or aerosol generators. To prepare the fogging solution, follow the equipment manufacturer's solution preparation instructions. For fogging applications, NYLAR 10EC [OR BRAND NAME] may be diluted with water or an approved petroleum distillate. Apply at a rate of 1 ml of NYLAR 10EC [OR BRAND NAME] per 1,000 cubic feet of space (28 m³) to be treated. Remove all persons from the area to be treated. Close area to be treated. Shut off ventilation systems. Apply the product in the air and direct fog or mist toward all areas that may harbor target pests. After treatment, leave the room closed for 30 minutes or longer, as recommended by the labels of other products that may be tank mixed with NYLAR 10EC [or brand name]. Do not remain in treated area after fogging application is completed. Ventilate before re-entry.

To Treat Voids in Equipment and Structures with ULV and Fog injection systems (void injectors): Apply to harborage sites in wall voids and other inaccessible spaces in equipment and structures using injection equipment designed for deep void ULV (Ultra Low Volume) applications. Follow the injection equipment manufacturer's recommendations for the proper set up and air pressures. Place the applicator tip at or into the void space or crack and crevice to be treated. Apply in short bursts while keeping the tip in position. Allow the air stream to push the material deep into the space. For applications along baseboards, trim, molding, etc. move applicator tip along the crevice to be treated, applying a constant burst of material. Move the tip at a steady rate of one foot (30 cm) per second. Avoid applying to the point of runoff or drip. Ventilate area thoroughly before re-entry.

FOOD HANDLING ESTABLISHMENT APPLICATIONS

Apply NYLAR 10EC [OR BRAND NAME] as a general surface spray, space spray, spot and/or crack and crevice treatment in both food and non-food areas of food handling establishments where food and food products are held, processed, prepared and served. It also includes areas where food items are: received, prepared, packaged, and stored, as well as enclosed food processing systems (mills, dairies, etc.). Prior to application, remove or cover all food items in area to be treated. Do not apply directly to food or food-handling surfaces. In the home all food-processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Food contact surfaces should be thoroughly washed with an effective cleaning compound and rinsed with potable water after use of the product.

SPOT OR CRACK & CREVICE APPLICATION

Since active ingredient is stable and not volatile, spot, and/or crack and crevice treatment may be used while the facility is in operation, provided exposed food is covered or removed from the area being treated prior to application.

SPACE SPRAY AND GENERAL SURFACE APPLICATION

Space and general surface application may be used only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application.

PANTRY/CABINETS, SMALL FOOD STORAGE AREAS

Apply as a surface spray, fog, crack and crevice spray, or spot treatment to pantry and cupboard shelves or other areas where food is stored. Prior to spraying, remove all food containers and foodstuffs. Do not replace food containers or foodstuffs until spray has dried.

STORED FOOD WAREHOUSES

Apply NYLAR 10EC [OR BRAND NAME] as a general surface spray, fog, spot, or crack and crevice treatment in warehouses where packaged food items are stored in such a way that direct contact with the foodstuff is not anticipated.

Integrated Pest Management in Schools:

The health of school residents and long-term suppression of pests must be the primary objectives that guide pest control in school settings. To accomplish these objectives an IPM program must always look for alternatives first and use pesticides only as a last resort. There are many chemical products to choose from that are relatively benign to the larger environment and at the same time effective against target pests.

Consult the EPA Document: *IPM for Schools: A How-to Manual* to learn more. This and other resource materials are available at www.epa.gov/pesticides/ipm/.

NYLAR 10EC [or brand name] may be used in Schools and Day Care Facilities. Unless it is an emergency situation, applications should be performed when only maintenance staff are present and the building is otherwise unoccupied. Do not apply to classrooms while in use. Vacate rooms prior to treatment. If application is a surface spray, spot or crack and crevice application, re-entry may occur once the spray has dried. If application is a ULV Fog or space spray, re-entry may occur after the treated area has been thoroughly ventilated.

Always consult Federal, State and Local governing bodies to understand any and all requirements prior to application.

Rate Chart

Amount of NYLAR 10EC [or brand name] per gallon (3.8 L) of water to treat 1,500 sq. ft. (139 m ²)	Amount of NYLAR 10EC [or brand name] per unit area	
	1,000 sq. feet (93 m ²)	1,500 sq. ft (139 m ²)
4 mL per gallon (3.8 L) (0.01%)	3 mL	4 mL
8 mL per gallon (3.8 L) (0.02%)	5.5 mL	8 mL
12 mL per gallon (3.8 L) (0.03%)	8 mL	12 mL

Alternate mixing instructions for outdoor power spraying	
18 mL per 50 gallons (189 L) of water	0.001%
38 mL per 50 gallons (189 L) of water	0.002%
56 mL per 50 gallons (189 L) of water	0.003%

FOR INDOOR AND OUTDOOR CONTROL OF LISTED FLYING INSECTS SUCH AS MOTHS, MOSQUITOES, FLIES AND SMALL NUISANCE FLIES:

NYLAR 10EC [or brand name] decreases the number of eggs laid by treated adults and reduces hatch rates. Larvae show physiological and functional defects leading to the inability to develop into normal adults. When used alone treatment will result in a reduction in adult fly populations after 3-4 weeks, when previously hatched adult flies have died naturally. Apply spray dilution to known and suspected breeding sites (such as moist areas with decaying organic matter), as well as areas where these insects are known to travel, rest, hide or harbor. Make application following cleaning and sanitation practices. Tank mix NYLAR 10EC [or brand name] with an adulticide to get immediate control of adult stages while inhibiting successful development of immature stages. Monitor insect population and repeat applications at 2 to 4 week intervals, if necessary, depending upon the severity of infestation. If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

General Surface Application (Including Broadcast, Spot and Crack & Crevice): Apply NYLAR 10EC [or brand name] in a surface application at the rate of 4 mL in one gallon (3.78 L) of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m²). Use up to 12 mL per 1,500 square feet (139 m²) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Apply solution as a coarse, wetting spray to breeding and harborage sites. For drains, apply dilution into and around the drain and catch basin area. When possible, treat vertical surfaces surrounding breeding sites, where small flies tend to alight.

10/13

Space Spray, Void Injection, ULV and Fog Application: Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. To achieve uniform coverage apply NYLAR 10EC [or brand name] as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of 1mL of concentrate per 1,000 cu. ft. (28.3 m³) of space to be treated. Direct application to areas where insects are known to travel, rest, hide or harbor.

Foam Application: For the control of Drain/Fruit Flies, combine NYLAR 10EC [or brand name] at the rate of 4 to 8 mL concentrate with one gallon of diluent. To convert this diluent to a foam, add foaming agent at the manufacturer's recommended rate. Using a professional foam applicator, apply finished foam to areas of fly breeding such as drains, traps of sinks, bathtubs and in floor drains. For best results, foam should be applied thoroughly, ensuring all void areas and fly breeding material is treated. Follow the requirements of the foam equipment manufacturer.

Outdoor Application: Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 4 mL in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,000 square feet (93 m²). Use up to 12 mL per 1,000 square feet (93 m²) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Alternate mixing directions for power spraying are to use 18 to 56 mL of concentrate per 50 gallons (189 L) of water. Apply to surfaces where insects breed, travel, rest, hide or harbor. Treat known and suspected breeding sites on, under and around exterior surfaces of buildings, walls, window frames, around garbage cans, eaves, cracks and crevices, porches, decks, gazebos, patios, carports, garages, stagnant water, moist/shaded areas, fence lines, and other areas where target insects are active or may be hiding. Since NYLAR 10EC [or brand name] is photo-stable, outdoor applications on soil surfaces will provide residual IGR activity, depending upon soil type and weather conditions.

FOR INDOOR AND OUTDOOR CONTROL OF LISTED CRAWLING INSECTS SUCH AS FLEAS, LONE STAR TICKS, BEETLES AND OTHER LISTED INSECTS:

NYLAR 10EC [OR BRAND NAME] breaks the reproductive cycle by acting on the immature life stages of fleas, Lone Star ticks, beetles and other crawling insects, preventing the successful development of adult insects. Flea eggs and flea larvae that contact treated areas will not develop into adult fleas. NYLAR 10EC [or brand name] reduces egg production and hatch and disrupts the molting process of tick larvae and engorged tick nymphs. NYLAR 10EC [or brand name] is a valuable component of an integrated program to control fleas, beetles, ticks and other crawling insects. If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

PREVENTATIVE FLEA TREATMENT: NYLAR 10EC [OR BRAND NAME] can be used as a preventative treatment 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 reduce the emergence of adult fleas and also control immature stages of fleas. Indoor treatments of NYLAR 10EC [or brand name] provide up to 7 months of residual flea control, so this early usage could reduce the need for conventional insecticides when used alone as directed. Apply as a surface application at the rate of 4 - 8 mL in one gallon (3.8L) of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m²).

TREATING ESTABLISHED INFESTATIONS:

General Surface Application (Including Broadcast, Spot and Crack & Crevice): Apply as a surface application at the rate of 4 mL in one gallon (3.8L) of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m²). Use up to 12 mL per 1,500 square feet for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Treat all areas that may harbor target insects, such as carpets, furniture, pet sleeping areas and throw rugs. Treat under cushions of upholstered furniture. Use with an adulticide to get immediate control of adult insects. Do not allow children or pets to contact treated surfaces until spray has thoroughly dried.

In Conjunction with Carpet Shampoo: NYLAR 10EC [OR BRAND NAME] may be combined with a liquid, non-heat extracting, carpet shampoo application. Mix 4 ml of NYLAR 10EC [OR BRAND NAME] per gallon (3.8L) of diluted shampoo 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.

In Kennels and Doghouses: Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 4 mL in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m²). Use up to 12 mL per 1,500 square feet (139 m²) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Remove animals before spraying. Apply in and around buildings, resting areas, walls, floor, animal bedding and run areas. Animals may be returned to treated areas when spray has thoroughly dried.

Space Spray, Void Injection, ULV and Fog Application: Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. To achieve uniform coverage apply NYLAR 10EC [or brand name] as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of 1mL of concentrate per 1,000 cu. ft. (28 m³) of space to be treated. Direct application to areas where target insects are known to travel, rest, hide or harbor.

Outdoor Application: Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 4 mL in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,000 square feet (93 m²). Use up to 12 mL per 1,000 square feet (93 m²) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Alternate mixing directions for power spraying are to use 18 to 56 mL of concentrate per 50 gallons (189 L) of water. Remove animals before spraying. Apply to listed outdoor areas where target insects are suspected or known to breed, travel, rest, hide or harbor. To help prevent insect infestation of buildings: Treat building exteriors, foundations and soil or other substrate adjacent to

buildings. Application on soil surfaces will provide 30 –60 days of IGR activity, depending upon insect type, soil type and weather conditions.

FOR CONTROL OF LISTED COCKROACHES, CRICKETS:

NYLAR 10EC [or brand name] acts on the immature life stages and prevents nymphal cockroaches and crickets from developing into reproductive adults. Shortly after application of this concentrate, cockroaches with twisted wings and other deformities will begin to appear, indicating that NYLAR 10EC [OR BRAND NAME] has taken effect - those cockroaches are unable to reproduce. May be used in a program with cockroach baits such as Vendetta™ Cockroach Gel Bait. One treatment works for 6 months against cockroach nymphs and crickets. If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

General Surface Application (Including Broadcast, Spot and Crack & Crevice): Apply as a surface application at the rate of 12 mL in one gallon of water to treat 1,500 square feet (139 m²). Apply diluted spray as a spot treatment, surface application and crack and crevice spray. Treat all areas where target insects are known or suspected to travel, rest, hide or harbor. Tank mix with an adulticide to provide immediate control of adult stages. Contact as many insects as possible with this spray. 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, and the inside of cabinets and closets hitting insects with spray whenever possible. Repeat application in 6 months, or more frequently if necessary.

Space Spray, Void Injection, ULV and Fog Application: Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. To achieve uniform coverage apply NYLAR 10EC [or brand name] as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of 1mL of concentrate per 1,000 cu. ft. (28 m³) of space to be treated. Direct application to areas where insects are known to travel, rest, hide or harbor.

Outdoor Application: Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 12 mL of concentrate in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m²). For building perimeter applications, apply in a band 2-6 feet (0.6 to 1.8 m) adjacent to and around the structure and apply to a height of 2-3 feet (0.6 to 0.9 m) on the foundation where pests may be active or may find entrance. Apply spray on, around and beneath window frames, doors, garage doors, patios, decks, turf, landscaping, compost areas, garbage areas and other areas where target insects travel, feed, rest, hide or harbor. Alternate mixing directions for outdoor power spraying are to use 56 mL of concentrate per 50 gallons (189L) of water.

FOR CONTROL OF ANTS:

General Surface Application Indoors: NYLAR 10EC [or brand name] may be used as part of an integrated approach to control ants. Apply broadcast, spot or crack and crevice treatments of NYLAR 10EC [OR BRAND NAME] at the rate of 12 mL diluted in water per 1,500 square feet (139 m²) to interior areas where ants are actively foraging and traveling. May be used in conjunction with baits and/or residual treatments. If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

Outdoor Application: Apply as an outdoor surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 12 mL of concentrate in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m²). Alternate mixing directions for outdoor power spraying are to use 56 mL of concentrate per 50 gallons (189L) of water. For building perimeter applications, apply in a band 2-6 feet (0.6 to 1.8 m) adjacent to and around the structure and apply to a height of 2-3 feet (0.6 to 0.9 m) on the foundation where ants may travel or find entrance. Apply directly to known or suspected ant forage, trails and forage sites. Treat ant mounds or nests directly, with a wetting spray. NYLAR 10EC [OR BRAND NAME] may be used in a program with baits or an in a tank mix combination with adulticide insecticide.

FOR CONTROL OF LISTED STORED PRODUCT PESTS:

(Including Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Sawtooth Grain Beetles, Warehouse Beetles, Cigarette Beetles, Dermestid Beetles). If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

General Surface Application (Including Broadcast, Spot and Crack & Crevice): Apply as a surface application at the rate of 8 mL in one gallon of water to treat 1,500 square feet (139 m²). Use up to 12 mL per 1,500 square feet (139 m²) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Apply diluted spray as a spot treatment, surface application and crack and crevice spray. Treat all areas where target insects are known or suspected to travel, rest, hide or harbor such as cracks and crevices in walls and floors, under and between pallets, areas at the base of machinery and equipment, under furniture, in mop and equipment closets, behind cabinets, behind and under refrigerators, sinks, stoves, drawers under shelves and racks, around pipes and openings in floors and walls, along baseboards, in wall voids, and other areas where insects seek harborage. Since NYLAR 10EC [or brand name] is stable and not volatile, spot, and/or crack and crevice treatment may be used while a food processing facility is in operation, provided exposed food is covered or removed from the area being treated prior to application. Tank mix with an adulticide to provide immediate control of adult stages. Contact as many insects as possible. Repeat application in 6 months, or more frequently if necessary.

Space Spray, Void Injection, ULV and Fog Application: Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. To achieve uniform coverage apply NYLAR 10EC [or brand name] as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of 1mL of concentrate per 1,000 cu. ft. (28 m³) of space to be treated. Direct application to areas where insects are known to travel, rest, hide or harbor.

Use in Livestock, Poultry and Animal Production

FOR CONTROL OF INSECT PESTS IN AND AROUND DAIRIES, LIVESTOCK, POULTRY AND OTHER ANIMAL HOUSING AND FACILITIES (Including Kennels, Animal Shelters, Stables and Zoos):

NYLAR 10EC [OR BRAND NAME] may be used by pest control professionals and livestock producers (including poultry) in, on and around animal housing and facilities to control listed flying insect pests. NYLAR 10EC [or brand name] mimics naturally occurring insect growth hormones, disrupting the reproductive processes of listed insects, resulting in reduced egg production, reduced egg hatch rates, disruption or inhibition of normal molting processes, deformity, sterile adults and death. NYLAR 10EC [or brand name] effectively breaks the cycle of insect reproduction. It is an important component in an IPM program, and is a means to prevent or manage known resistant insect populations, such as Tempo resistant flies. Used as directed, NYLAR 10EC [or brand name] will not harm beneficial insects such as predatory wasps.

Apply as a spot treatment; general surface broadcast treatment, ULV/ fog, spot or crack and crevice application to interior and exterior areas where insect pests collect, travel, rest, hide, harbor or breed. Apply when animals are not in the immediate area being treated. Animals may reenter treated area once spray solution has thoroughly dried. Do not contaminate food, feed, potable water or watering equipment.

RATES TO CONTROL MOSQUITOES AND OTHER FLYING INSECTS:

NYLAR 10EC [OR BRAND NAME] effects on both adult and juvenile insect stages. It decreases the number of eggs laid by treated adults and reduces hatch rates. Larvae (maggots) show physiological and functional defects leading to the inability to develop into normal adults. When used alone treatment will result in a reduction in adult fly populations after 3-4 weeks, when previously hatched adult flies have died naturally. For faster results, NYLAR 10EC [or brand name] may be tank mixed with an adulticide. Apply alone or tank mixed with an adulticide at the rate of 4 mL per 1,500 square feet (139 m²) of surface area in sufficient volume of water to thoroughly wet the surface, although not to the point that runoff occurs. Use up to 12 mL of concentrate per 1,500 square feet (139 m²) of surface for insect populations that are difficult to control or in conditions that make it difficult to achieve desired results.

RATES TO CONTROL LISTED CRAWLING INSECTS:

Apply NYLAR 10EC [OR BRAND NAME] alone or tank mixed with an adulticide at the rate of 4 mL per 1,500 square feet (139 m²) of surface in sufficient volume of water to thoroughly wet the surface, although not to the point that runoff occurs. Use up to 12 mL of concentrate per 1,500 square feet (139 m²) of surface for insect populations that are difficult to control or in conditions that make it difficult to achieve desired results.

Space Spray, Void Injection, ULV and Fog Application: Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. NYLAR 10EC [or brand name] may be applied with a ULV generator or fogger at a rate of 1 mL per 1,000 cubic feet. If used alone, dilute concentrate with water at the rate of 1 mL of concentrate with one fl. oz. (30 mL) of water, and fog solution at a rate of 1 fl. oz. (30 mL) per 1,000 cubic feet (28 m³). When tank mixing with a pyrethrum fogging concentrate, mix NYLAR 10EC [or brand name] directly with the pyrethrum fogging concentrate solution. Do not remain in treated area after fogging. Keep facility closed for 1 hour and thoroughly ventilate prior to reentry.

INTERIOR AND PERIMETER APPLICATION DIRECTIONS:

Inspect and identify harborage and breeding areas. Treat all interior areas where crawling insects may collect, travel, rest, hide, harbor or breed, including vertical walls, ceilings, posts, pipes, conduit, around doors and windows, cages, stalls, stanchions, floors, under watering equipment and feeders, cracks and crevices along floors, animal bedding, manure and other known or potential breeding sites. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments. Apply solution to exterior perimeter of facility in a uniform band at least 1 foot (30 cm) up and 6 to 10 feet (1.6 to 3.0 m) out from foundation. Apply around the exterior surfaces of doors and windows, overhead areas and other potential points of harborage or entry. If there are raised floors with soil or debris beneath them, be sure to treat the area beneath the floor.

EXTERIOR AND OUTDOOR APPLICATION DIRECTIONS:

Inspect and identify known or suspected harborage and breeding areas. Treat known or potential exterior breeding sites such as garbage bins or refuse piles, around grain or feed storage facilities, soil and vegetation in fence lines, compost piles, manure piles, beneath watering equipment or feeders, in, around and under calf hutches, in and beneath outdoor cages, in corrals, farmyards and feed lots.

Reapply every 30 days, or when target insect populations return to economic threshold levels.

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

NYLAR 10EC [OR BRAND NAME] 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, NYLAR 10EC [OR BRAND NAME] will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Make uniform application of NYLAR 10EC [OR BRAND NAME] to litter at the rate of 4 mL of NYLAR 10EC [OR BRAND NAME] per 1,500 square feet (139 m²) of surface in sufficient volume of water to thoroughly wet the surface, although not to the point that runoff occurs. Use up to 12 mL of concentrate per 1,500 square feet (139 m²) of surface for insect populations that are difficult to control or in conditions that make it difficult to achieve desired results.

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 Onslaught Microencapsulated Insecticide. Application of adulticide 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.

Apply NYLAR 10EC [OR BRAND NAME] uniformly 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 sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply NYLAR 10EC [OR BRAND NAME] or adulticide insecticides, or both, in a uniform band at least 1 foot (30 cm) up and 6 to 10 feet (1.8 to 3.0 m) out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

USE AS A MOSQUITO LARVICIDE

Not For Use in Natural Holding Waters or Active Waterways.

Not for wide area mosquito use. Do not apply using truck mounted sprayers or aerial application equipment.

Active only on the immature life stages of mosquitoes. Tank mix or use with an adulticide for immediate kill of biting (adult) mosquitoes.

RESIDENTIAL AND COMMERCIAL SITES:

Apply using a backpack sprayer, ULV cold fogger, compressed air sprayer, power sprayer or hand-held sprayer at a rate of 4- 8 mL of NYLAR 10EC [or brand name] per 1,500 sq. ft. (139 m²) in sufficient amount of water to get good coverage of target site. Use up to 12 mL per 1,500 square feet (139 m²) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Alternate mixing instructions are 16 – 48 mL of concentrate per 50 gallons (189 L) of water. Treat moist, shady areas where mosquitoes rest, harbor or breed, such as trees, shrubs, landscape plants, tall grass or plant foliage, standing water, gutters, drains, under decks, in-ground sprinkler heads, pet areas, fountains, birdbaths, landscape timbers, rocks, pavers, planters and fences. Tank mix NYLAR 10EC [or brand name] with an adulticide to get immediate control of the biting adult stages, while inhibiting successful development of immature stages. Monitor insect emergence and re-apply every 28 days, or when insect populations reach treatment threshold levels.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place. Always store pesticides in the original container. Store away from food and pet food.

PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Nonregillable container. Do not reuse or refill this container.

If empty:

Place in trash or offer for recycling if available.

If partially filled:

Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.