



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 13, 2017

Steven K. Ditto  
McLaughlin Gormley King Company D/B/A MGK  
8810 10<sup>th</sup> Ave. N  
Minneapolis, MN 55427

Subject: Notification per PRN 98-10 – ABN and updated breakdown for dilution  
Product Name: MGK 30911  
EPA Registration Number: 1021-2786  
Application Date: 1/4/2017  
Decision Number: 524863

Dear Mr. Ditto:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The alternate brand name "*PestXpert Dual Action Insect Killer Concentrate*" has been added to the product record.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact Angela Hollis at 703 347-0216 or by email at [hollis.angela@epa.gov](mailto:hollis.angela@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", enclosed in a simple oval scribble.

Kable Bo Davis, Product Manager 3  
Invertebrate and Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

**NOTIFICATION**

1021-2786

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/13/2017

# MGK<sup>®</sup> 30911

[ABN: PestXpert Dual Action Insect Killer Concentrate]

**NOTE: Bold, Italicized text is information for the reader and is not part of the label.** Information in [brackets] or (parentheses) is optional text. Text separated by “/” denotes and/or options.

**ACTIVE INGREDIENT:**

Esfenvalerate .....	0.133%
Nylar <sup>®</sup> .....	0.130%
<b>OTHER INGREDIENTS</b> .....	<b>99.737%</b>
	<b>100.000%</b>

MGK<sup>®</sup>, Nylar<sup>®</sup> - Registered trademarks of McLaughlin Gormley King Company

## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>▪ Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.	

Manufactured by:



8810 Tenth Avenue North  
Minneapolis, MN 55427

EPA Reg. No. 1021-2786

EPA Est. No. 1021-MN-2

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS
<b>CAUTION</b>
Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
<u>ENVIRONMENTAL HAZARDS</u>
This pesticide is extremely toxic to fish. 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 avoid run off to water bodies or drainage systems.
<u>PHYSICAL OR CHEMICAL HAZARDS</u>
Do not use or store near heat or open flame.

PRODUCT USAGE [FACTS] [QUICK FACTS]

Kills: [Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants),] Aphids, Beetles, [Chinch Bugs, Crickets, Japanese Beetles,] [Cutworms,] [Earwigs,] [Fleas,] [Japanese Beetle Grubs], Mealybugs, [Mites,] [Mole Crickets,] [Sod Webworms,] Spider Mites, [Tent Caterpillars,] [Whiteflies and many other[s] [garden [nuisance] pests] [more insects] as listed. [Also kills wood-infesting insects.]

USE ON [WHERE TO USE]: Roses, Flowers, Lawns, Trees and Shrubs, [Flowers] [and as a [short term] residual spray to outside surfaces of buildings, foundations, porches, patios, window frames, and other areas where pests congregate.] [Outdoors around the home.]

AMOUNT TO USE: See detailed instructions inside label. [Roses, Trees, Shrubs, Fruits, Vegetables: 1-3 fl. oz. per gallon of water] [Lawns: 8–26 fl. oz. per 1,000 sq. ft.] [[Lawns: 2.50 fl. oz. to 8 fl. oz. per 300 sq. ft.](#)] [[Lawns: 1.0 fl. oz. per 38 sq. ft.](#)] [Nuisance pests: 16 fl. oz. per 400 linear ft. by 5 foot spray band.] [[Nuisance pests: 8 fl. oz. per 100 linear ft. by 5 foot spray band](#)] [[Nuisance pests: 1 fl. oz. per 25 linear ft. by 5 foot spray band](#)][See directions for specific application rates.]

**(Optional text below in *Italics* can be used for final printed labels with wood infesting insects directions)**

*[PRODUCT USAGE [QUICK FACTS]]*

*KILLS: Powder post Beetles, and other wood infesting pests.*

*USE ON: Outside surfaces of buildings, porches, wooden decks and patios, wooden fences, window frames, doorways, foundations, eaves, patios, garages, wood piles, tree stumps, and other areas where you may find these pests.*

*AMOUNT TO USE: Mix 12 fl. oz. with one quart of water to treat 250 square feet.*

**(Optional text below in *Italics* used when packaged in hose-end applicator containers only.)**

*PRODUCT USAGE [QUICK FACTS]*

*KILLS: Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), Chinch Bugs, Crickets, Japanese Beetles, Whiteflies, and many other insects as listed [other listed insects].*

*USE ON: Lawns, Trees, Shrubs, Roses, Flowers, and as a residual spray to outside surfaces of buildings porches, patios, window frames, and other areas where pests congregate.*

*AMOUNT TO USE: No mixing required. Connect to hose and spray. [Ready to use Hose-End Spray]*

**(Optional text below in *Italics* used when packaged in certain 32 fl. oz. hose-end applicator containers only.)**

*Kills: Kills troublesome and damaging insects as listed.*

*Use On: Lawn and other outdoor areas where pests congregate.*

*Amount to Use: NO MIXING. Connect to hose and spray. Treats up to 4,000 sq. ft. [of lawn]*

DIRECTIONS FOR USE

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

MGK® Formula 30911 [product name] is an effective formulation, which kills crawling insects fast.

This product kills troublesome outdoor insects which destroy lawns, roses, flowers, trees and shrubs: Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), Bagworms, Aphids, Borers, Armyworms, Chinch Bugs, Inchworms, Spider mites, Green fruitworms, Beetles, Fleas, Cicadas, Thrips, Leafhoppers, Cutworms, Sod webworms, Leafrollers, Whiteflies, Moths, Weevils.

Also kills Alfalfa loopers, Budworms, Cabbageworms, Citrus black flies, Codling moths, Corn earworms, Crickets, Earwigs, Elm spanworms, Fall cankerworms, Gnats, Grasshoppers, House flies, Japanese beetles, Leafminers, Lygus bugs, Mealybugs, Millipedes, Mole crickets, Naval Orange Worms, Scales, Sowbugs (pillbugs), Spring cankerworms, Tent caterpillars, Tobacco budworms, and many others.

READ ENTIRE LABEL BEFORE USE

PRECAUTIONS:

Do not water the treated area to the point of runoff.

Do not make applications during rain.

Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Do not contaminate feedstuffs, food, or food handling surfaces.

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.

Do not allow people and pets in treated areas until spray has dried. Do not use this product on pets.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

GENERAL: Use [this product] to control on contact fleas, ants (including Crazy Ants and excluding fire ants, harvester ants, carpenter ants and pharaoh ants), crickets, Kudzu Bugs, sowbugs (pillbugs), brown marmorated stinkbugs and spiders (excluding black widow spiders).

This product contains NyLar<sup>®</sup>, a photostable insect growth regulator (IGR). Applications on soil surfaces will provide up to [168 days] [24 weeks] [6 months] residual (IGR) activity against fleas depending on the soil type and weather conditions.

[This product] can be used [to control listed pests] along woody borders of kennels, yards, campgrounds, recreational parks, and footpaths and roadways leading to such areas.

Do not spray near fish ponds or other bodies of water. Avoid soaking young or flowering plants.

**PREVENTIVE FLEA TREATMENT:** [This Product] can be used outdoors as a preventive treatment prior to the flea season. First, remove animals or pets before spraying. Apply this product in areas where pets or other animals are known to frequent and where previous infestations have been known to occur. Application [of this product] will reduce the emergence of fleas and also control fleas. The early use [of this product] could reduce the need for conventional insecticides when used as directed.

### **BARRIER TREATMENT**

#### **For Use on Outdoor Surfaces on and around Buildings:**

Treat outside surfaces of buildings such as exterior siding, foundations, porches, window frames, eaves, patios, garages, foundation pillars, piers, veneers, crawl space entrances, chimney bases, masonry cracks and voids, stoops, under slabs, plumbing and utility entry sites, bath traps, expansion joints, refuse dumps, garbage areas, lawn areas and landscaped areas adjacent to or around private homes, cabins, lake homes, cottages, vacation homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, fence lines, storage sheds, barns, kennels, chicken coops, hobby greenhouses, and other residential structures. Treatments may also be made to soil, trunks of trees and woody ornamentals, and other similar areas where pests congregate, are active or areas where pests have been seen. Coverage of bark on the scaffold limbs to the ground level of the trunk is recommended for best control.

#### **Structural Perimeter Barrier Treatment**

Applying a continual band of insecticide around a building foundation and around windows, doors, service line entrances, eaves, soffits, vents, roof overhangs, and other areas can greatly reduce the potential for entry by crawling pests. To facilitate 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.

Treat entry points around water pipes, utility penetrations and entry points, windows, doors, vents, eaves, soffit areas and other exterior openings (including foundation cracks or drilled holes) where pests enter the structure or where they have been seen or found or can find shelter.

Void applications can be made into rubble foundations, wall voids, under slabs, stoops, and other similar voids. House siding higher than 3 feet from the foundation may be treated if Gypsy Moth adults, caterpillars, Boxelder bugs, elm leaf beetles, earwigs, silverfish, stink bugs, and similar pests are present or are known to be active and find shelter.

**BUILDING PERIMETER TREATMENT:** To help prevent infestation of buildings by fleas/listed pests, treat a 12-18 inch band of soil or other substrate adjacent to building foundation to a height of 2 to 3 feet where the pests are active and may find entrance. Spray outside surfaces of buildings, porches, patios, garages, and other areas where these pests have been seen or found. Apply at the rate of 32 fl. oz. to treat 1,000 linear feet [\[8 fl. oz. 125 linear ft.\]](#) [\[1.0 fl. oz. 30 linear ft.\]](#) to a band width totaling 4 feet including the foundation and soil.

**Barrier Spray For Nuisance Pests:** Such as Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), Clover mites, Crickets, Earwigs, Fleas, Flying moths, Gnats, Millipedes, Sowbugs (pillbugs), Spiders (excluding black widow spiders), Tent caterpillars.

#### **Application Directions:**

Use 32 fl. oz. to treat 800 [\[8 fl. oz. to treat 200\]](#) [\[1.0 fl. oz. to treat 25\]](#) linear feet with a 5 foot band of product. Apply product at a rate of approximately 1 linear foot for every 2 seconds.

To help prevent infestations of buildings, treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of building, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness.

**Spiders (excluding black widow spiders):** Use only out-of-doors as an aid in reducing annoyance from these insects. Apply as a spot or crack-and-crevice spray to outside surfaces of window and door frames as well as other areas where these pests may enter the home. Also spray dark corners and localized resting areas (such as under eaves) of porches, patios, fences, and garages where these insects may congregate. Flies coming to rest on treated surfaces will be killed.

**Asian Lady Beetles, Boxelder Bugs:** Treat in late summer or fall just before pests begin looking for Winter shelter. Spray siding, eaves, around windows, doors and window screens. To help reduce infestations treat cracks and crevices, attics and other indoor winter hiding places.

Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants): Spray around ant trails and hills. Spray around nests hidden under steps, brickwork, concrete, etc. Break apart accessible nests and spray on and around debris until surface is slightly wet. Treatment of infested fences and tree holes is permitted.

Vinyl and Aluminum Siding: Applications made to vinyl and aluminum siding (particularly lightly colored, aged, weathered or otherwise damaged) may result in staining, bleaching, or discoloration. Factors such as extreme heat or direct sunlight can promote damage when using this product. Before applying this product to vinyl or aluminum siding, treat a small area and evaluate 30 minutes later to allow any potential staining to occur. Regardless of the test results, do not apply to vinyl or aluminum siding when exposed to direct sunlight or during the heat of the day.

#### HOW TO APPLY

##### Outdoor Perimeter Treatment Application

To keep fleas from entering the house:

-Spray a 1 to 1.5 foot band on the soil around the house next to the foundation. Spray a 2 to 3 foot band from the ground up the side of the house [using the illustration as an example].

[Illustration]

-This package [[1 fl. oz. will treat up to 25](#)] [[8 fl. oz. will treat up to 200](#)] [[16 fluid ounces will treat up to 400](#)] [[32 fluid ounces will treat up to 800](#)] [[will treat up to 400](#)] [[800](#)] linear feet with a 5 foot band of product. Apply product at a rate of approximately 1 linear foot for every 2 seconds.

-In addition to the foundation, this product can also be used around window frames and doorways, on porches and patios, along eaves and exterior siding.

#### WHEN TO REAPPLY

Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once every seven days.

WOOD-INFESTING INSECTS: For Beetles (Furniture, Deathwatch, False Powderpost, Longhorned, Powderpost),(and other wood-infesting ants):

Treat outside surfaces of building, porches, wooden decks and patios, wooden fences, window frames, doorways, foundations, eaves, patios, garages, garage areas and other areas where you may find these pests.

Mix 12 fl. oz. with 1 quart [[8 fl. oz. with 20 fl. oz.](#)] [[1 fl. oz. with 2.6 fl. oz. of water](#)]-of water to treat 250 sq. ft. [[for 8 fl. oz.: 167 sq. ft.](#)] [[\(for 1 fl. oz.\) 20 sq. ft.](#)] Spray infested surfaces until thoroughly wet, avoiding dripping and runoff. Apply evenly on wood surfaces. To treat small areas, apply by brushing or spraying the diluted spray. For large areas, use a coarse, low-pressure spray. Repeat treatment as needed to maintain effectiveness. Do not spray into electrical outlets or utilities.

Spray infested areas and areas likely to be infested, such as wood surfaces, voids and channels in damaged wood and foundations where infestation is likely to occur, also around fence posts, wood piles (do not use on firewood) and tree stumps.

Suitable protective clothing should be worn in confined or overhead areas to prevent exposure to eyes and skin. The use of gloves and footwear, a long-sleeved shirt and long pants or coveralls are recommended. Do not permit contact with treated surfaces until spray has dried. Treated confined areas such as detached garages, under porches and decks, should be ventilated during and immediately following application before the areas are re-occupied.

For ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), spray around doors and windows and other places where ants may enter or crawl and hide. Also treat cracks and crevices or openings into wall voids or other areas where these ants may be present.

TO KILL FLEAS HARBORING IN LAWNS AND BACKYARDS: For best results: Lawn should be mowed a day or two before spraying. Spray using a slow, even sweeping motion, being sure to cover the entire lawn surface where the pests will normally frequent. Spray under ornamentals and trees, but avoid soaking young or flowering plants. Repeat treatments may be necessary at 7 to 14 day intervals.

#### LAWN FLEA CONTROL:

To kill fleas harboring in lawns and backyards, use this concentrate in a hose-end sprayer. For best results, lawn should be mowed a day or two before spraying. Spray using a slow, even sweeping motion, being sure to cover the entire lawn surface where the pets will normally frequent. Spray under ornamentals and trees, but avoid soaking young flowering plants. Kills on contact.

Keep pets and children out of the treatment area until after the spray has dried. Do not spray animals. Dogs, cats, their kennels or bedding area should be treated with a registered flea control product in conjunction with this application.

**Outdoor - Honey Processing Premises**

Applications made to soil surfaces will provide 30 to 60 days of IGR activity. This residual activity is dependent on the soil type, weather conditions, and insect type. To help prevent insect infestation of hives, apply to listed areas where target insects are suspected or known to breed, travel, rest, hide or harbor as a curative and/or preventive treatment. Treat ant mounds directly and apply directly to known or suspected ant forage trails and forage sites.

TARGET SPECIES	USE	DILUTE	APPLICATION RATE
For Aid in control of the Small Hive Beetle, <i>Aethina tumida</i>	Sprinkler Can	0.5 fl. oz. (1 Tablespoon) to 1 gallon water.  <b>NOTE TO REVIEWER: Esfen Al/acre = 51.3gr Nylar Al/acre = 50.1gr</b>	For treatment of existing infestations, apply as soon as beetles or larvae are observed in or around the hive. Thoroughly wet ground in an area 18-24 inches wide in front of each hive (1 gallon per 6 hives). Apply spray in late evening after bees become inactive.
	Sprinkler Can, hand pump sprayer or other low pressure sprayer	0.5 fl. oz. (1 Tablespoon) to 1 gallon water.	For pre-placement cleanup of apiary, apply to entire ground surface 24-48 hours prior to hive placement. 1 gallon of solution per 16 sq. ft. or 6 gallons per 100 sq. ft.)
Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants)	Sprinkler Can	0.33 fl. oz. (2 teaspoons) to 1 gallon of water.  <b>NOTE TO REVIEWER: Esfen Al/acre = 34.2gr Nylar Al/acre = 33.4gr</b>	For Contact Kill. Gently sprinkle 1 gallon over the surfaces of mounds and surrounding area to treat a 4 ft. diameter. For best results, apply in cool weather 65-80°F (early morning or late evening). Avoid use of pressurized sprayers as such use may disturb ants and cause migration reducing the products effectiveness.
For prevention of ant (excluding fire ants, harvester ants, carpenter ants and pharaoh ants) movement in or out of honey bee hives positioned on supports such as pallets.	Sprinkler can, hand held pump sprayer or other low pressure sprayer.	0.5 fl. oz. (1 tablespoon) to 1 gallon of water.  <b>NOTE TO REVIEWER: Esfen Al/acre = 51.3gr Nylar Al/acre = 50.1gr</b>	For pre-placement of apiary apply to ground surface 24-48 hours <b>prior to</b> hive support placement.  Thoroughly wet ground area (1 gal. solution per 16 sq. ft. or 6 gal. per 100 sq. ft.) to make a treated square large enough to place the support plus a 2 to 4 ft. treated buffer around the structure, such as a 10 sq. ft. area with a 4 sq. ft. pallet to be placed in the center. Retreat prior to each season.  NOTE: Prior to moving support pallets onto trailer for transport, assure that not treated soil remains on pallet that may result in bees contacting treated surfaces during transport.

<p>For prevention of ant (excluding fire ants, harvester ants, carpenter ants and pharaoh ants) movement in or out of honey bee hives positioned on supports such as pallets.</p>	<p>Low pressure sprayer.</p>	<p>8 fl. oz. to 10 gals. water.</p> <p><b>NOTE TO REVIEWER:</b>  <b>Esfen AI/1k(sf)=0.94gr</b>  <b>Nylar AI/1k(sf)=0.92gr</b></p>	<p>Surface Spray: Apply to bottom pallet of two support pallets until surface is wet but do not let runoff occur (approx. 0.5 gal per pallet) and let dry before placing pallet supporting bee hives on top. Retreat pallets prior to each season.</p> <p>NOTE: For transport, move only non-treated hive support pallet onto trailer. Leave treated (bottom) pallet on site, properly discard or transport separately to new site.</p>
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**NOTE:** Esfenvalerate is toxic to bees. This product must be diluted before applications are made. Use extreme caution to avoid contacting bees, hive or any other surfaces that bees may contact with spray or spray drift. When hives are present, applications may only be made with sprinkler can. Hand pump sprayers may only be used when hives are **not** present and only for pre-placement cleanup of apiary. Do not contaminate any water or food source that may be in the area. Do not apply during windy conditions. For better soil penetration and improved efficacy, cut grass around hive prior to application.

**DIRECTIONS FOR HOSE-END SPRAYER**

The enclosed hose-end sprayer is calibrated to deliver the correct amount of product in accordance with label directions. Use this sprayer **ONLY** with the accompanying bottle in accordance with the label directions.

1. Make certain the valve is in the OFF position.
2. Screw the sprayer attachment onto the garden hose
3. Remove the cap from the bottle and carefully screw the bottle counter-clockwise into the sprayer attachment until tight.
4. Turn on water at faucet while aiming the sprayer toward the lawn and turn the control knob of the sprayer attachment to the ON position to begin spraying.
5. When finished spraying, turn the control knob to the OFF Position. Discharge residual water pressure by turning Water supply OFF and re-open the control knob.]

**[Optional Sprayer Information]**

**For Dial-Style Hose-End Sprayers**

- Step 1: Fill sprayer jar with enough concentrate to cover area to be treated
- Step 2: Attach sprayer top and set dial to appropriate dilution rate
- Step 3: Attach sprayer to hose and apply
- Step 4: Begin by spraying area farthest from faucet, walking backwards as you apply to avoid contact with the treated area.

**For Concentrate Plus Water Hose-End Sprayers**

- Step 1: Pour concentrate into sprayer jar to the required fluid ounce level
- Step 2: Add the appropriate amount of water to the gallons level.
- Step 3: Replace sprayer top and shake well before applying.
- Step 4: Begin by spraying area farthest from faucet, walking backwards as you apply to avoid contact with the treat area.]

**FOR DIAL-STYLE Hose-End Sprayers:**

Dilution rate: 4 fluid ounce per gallon (8 tablespoons = 4 fluid ounces) Coverage = Apply up to 500 square feet

**FOR CONCENTRATE-PLUS-WATER Hose-End Sprayers:**

Dilution rate: 4 fluid ounce per gallon (8 tablespoons = 4 fluid ounces) Coverage = Apply up to 500 square feet

**IN GARDENS**

**MIXING INSTRUCTIONS**  
**In Ornamental Gardens**

**Amount to Use:** 4 fl. oz. (8 Tbsp.) per gal of water [2 fl. oz. (4 Tbsp.) per ½ gallon of water] [1 fl. oz. (2 Tbsp. per quart of water)]-for hose-end or tank sprayer.

[DNS icon] When using [product name]

1. Set dial to 4 oz.
2. Pour product into sprayer to fill jar one-quarter to one-half full. **DO NOT** add water.
3. After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbsp.) = 3 teaspoons (tsp.)

1 fl. oz. = 2 Tbsp.

**HOW TO APPLY**

[Use a Tank, or Hose-End Sprayer] Spray plant to wet the upper and lower leaf surfaces until dripping.

## WHEN TO APPLY

Apply as necessary to maintain control waiting at least 7 days between each application.

## PLANTS

Ornamental Plants including: Roses, Flowers, Shrubs and [&] Shade Trees

Vegetables: See list in following table.

## PESTS [BUGS] [INSECTS] CONTROLLED [KILLED]

### On Ornamental Plants

Aphid, Armyworm, Balsam Woolly Adelgid, Buckhorn Aphid, Cabbage Looper, Cucumber Beetle (adults) - spotted and [&] striped, Cutworm, European Pine Sawfly, Fall Webworm, Flea Beetle, Grasshopper, Gypsy Moth, Imported Cabbageworm, Japanese Beetle, Leafhopper, Looper, Northern Pine Weevil, Pine Chafer, Pine Coreid Bug, Red Pine Sawfly, Redheaded Pine Sawfly, Saltmarsh Caterpillar, Spittlebugs, Tent Caterpillar and [&] Whitefly.

## HOW TO APPLY

Spray plant to wet the upper and lower leaf surfaces until dripping.

## WHEN TO APPLY *[optional icon]*

Apply as necessary to maintain control waiting at least 7 days between each application.

## ON LAWNS [HOME LAWNS]

### BUGS [INSECTS] [PESTS] CONTROLLED [KILLED]

Fleas

Also kills ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants) upon direct contact.

Other Lawn pests: Armyworms, Chinch bugs, Crickets, Cutworms, Grasshoppers, Japanese beetle grubs, Mole crickets, Sod webworms.

### MIXING INSTRUCTIONS On Lawns

**Amount to Use:** 6 tsp. per gal of water for each 125 sq. ft. for hose-end sprayers

*[DINS icon]* When using *[product name]*

1. Set dial to 6 tsp.
2. Add 24 fl. oz. to sprayer jar. [\[ 8 fl. oz.\]](#) DO NOT add water.
3. Spray evenly over 3,000 sq. ft. (50' x 60') [\[\[for 8 fl. oz.\]: Spray evenly over 1,000 sq. ft.\]](#)

1 Tablespoon (Tbsp.) = 3 teaspoons (tsp.)

1 fl. oz. = 2 Tbsp.

## HOW TO APPLY

[Use a Tank or Hose-End Sprayer].

\*Measure lawn. Calculate square feet by multiplying length times width. *[walking man icon]*

\*Spray evenly over measured area. Treat entire lawn. Also spray under trees and shrubs.

**Important:** Do not spray animals. Dogs, cats, their kennels or bedding areas should also be treated with a registered flea and tick control product in conjunction with this application.

## WHEN TO MOW LAWN

For best results, mow a day or two before spraying.

*[reentry icon]* People and pets may enter treated area after spray has dried.

## ON OTHER OUTDOOR SURFACES [NUISANCE PESTS IN OUTDOOR AREAS]

### BUGS [INSECTS] [PESTS] CONTROLLED [KILLED]

Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), Asian Lady Beetles, Boxelder bugs, Cicadas, Clover mites, Crickets, Earwigs, Fleas, Flying moths, Gnats, Millipedes, Sowbugs, Pillbugs, Spiders (excluding black widow spiders), and Tent caterpillars.

### MIXING INSTRUCTIONS On Other Outdoor Surfaces [NUISANCE PESTS IN OUTDOOR AREAS]

**Amount to Use:** 8 fluid ounces per gallon of water for 1,000 square feet of outside surfaces [\[ 4 fl. oz. per ½ gallon of water for 500 sq. ft. of outside surfaces\]](#) [\[1 fl. oz. in 1 pint of water for 125 sq. ft. of outside\]](#) [in a hose-end or tank sprayer].

[When using product name]

1. Set dial to 8 ounces
2. Add 24 [\[ 8 fl. oz.\]](#) fluid ounces to sprayer jar. **DO NOT** add water.
3. Spray evenly over 3,000 sq. ft. (50' x 60') [\[\[for 8 fl. oz.:1,000 sq. ft.\]](#)

1 Tablespoon (Tbsp.) = 3 teaspoons (tsp.)

1 fl. oz. = 2 Tbsp.

## HOW TO APPLY

[Use a Tank or Hose-End Sprayer]. Spray outdoor surfaces of buildings, porches, patios, garages and [&] other areas where these bugs [insects] [pests] have been seen or are found.



For treatment of localized infestations of these insects in areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly.

For ANTS (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), thoroughly wet hills and runways.

For TENT CATERPILLARS, application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening when caterpillars have returned to their tents. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent, however, they should die within several hours.

Repeat application as reinfestation occurs.

Do not spray in or near fishponds or other bodies of water.

(8 [fl.] oz. treats 1,000 sq. ft.)/ 4 fl. oz. treats 500 sq. ft.)] [\[1 fl. oz treats 125 sq. ft.\]](#)

HOSE END SPRAYER: Easy to Use. For Application to Lawns, Outdoor Ornamentals, and Other Outdoor Residential areas.

32 oz. Treats Up to 4,000 Square Feet

1. Make sure know Control lever is in the OFF position. Shake well and attach to hose.
2. Turn water on at faucet, aim nozzle toward lawn and turn knob Control lever to ON to begin spraying.
3. When finished turn Control lever to OFF position. Turn faucet to OFF Position. Discharge residual water pressure by turning ON and OFF again. Store out of reach of children.

THREE STEPS TO MIX AND APPLY:

Step #1: For vegetables, measure the area to be sprayed. Calculate square feet by multiplying length by width. For all other applications, apply as a thorough cover spray.

Step #2: Use a clean sprayer. Carefully measure and mix the amount of concentrate and water as directed.

Step #3: Spray as directed. Thorough coverage is important. Flush sprayer with clean water after each use. **Make applications when insects first appear.** Repeat applications as directed. See directions in the Other Outside Areas table for complete insect list.

**IMPORTANT**

*[reentry icon]* People and pets may enter treated area after spray has dried.

Do not spray animals [with this product]. [Dogs, cats, their kennels or bedding areas should also be treated with a registered flea and tick control product in conjunction with this application].

[For complete flea control, it is also important to control fleas indoors and on pets. Use a product registered for use on dogs and cats. For indoors on carpets or pet resting areas, use a product registered for these use areas.]

OTHER OUTSIDE AREAS	
Pests: Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), Crickets, Earwigs, Fleas and Spiders (excluding black widow spiders).	<b>How to Use:</b> For treatment of localized infestations of these insects in areas where there are weeds, shrubs or bushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways. Repeat [as necessary] application as reinfestations occur.
Pests: Flying moths and Gnats	<b>How to Use:</b> For use only as an aid in reducing annoyance from these insects. Spray outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, under patio furniture, in garages and other places where these insects alight or congregate. Repeat as necessary.
Pest: Tent caterpillars	<b>How to Use:</b> Application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent, however, they should die within several hours..

Outside Surfaces of Buildings	Pests: Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), Clover mites, Crickets, Earwigs, Millipedes, Sowbugs (pillbugs).	<b>How to Use:</b> To help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, picnic areas, garages, refuse piles, and other areas where these pests congregate or have been seen. Hold sprayer two (2) to three (3) feet from surface to be treated. Spray to slightly moisten the surface. [To maintain effectiveness, reapply as reinfestation occurs.] [Repeat as needed to maintain effectiveness.]
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### USE ON LAWNS

Kentucky bluegrass, Bent, Bermuda, bluegrass, dichondra, fescue, Irish moss, Merion and St. Augustine	Pests: Ants (excluding fire ants, harvester ants, carpenter ants and pharaoh ants), Armyworms, Chinch bugs, Crickets, Cutworms, Fleas, Grasshoppers, Japanese beetles grubs, Mole crickets and Sod webworms.	<b>How to Use:</b> Thoroughly wet down grass a few hours before applying. Home [Residential] lawns should be no taller than 3 inches at time of application. Slightly more water may be used as long as the amount of product per area is as listed below. For heavy infestations, repeat application after 1 week. For listed insects 32 fl. oz. treats 4,000 sq. ft.
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### USE ON TREES & SHRUBS

Arizona Cypress, Azalea, Birch, Non-Bearing Citrus, Conifers, Elm, English Ivy, Euonymus, Weeping Fig, Fir, Honeysuckle, Lilac, Mock-Orange, Oak, Palm, Philodendron, Pine, Poinsettia, Tulip, Poplar, Rhododendron, Taxus	Pests: Aphids, Bagworms, Cicadas, Exposed thrips, Fall cankerworms, Inchworms, Leafminers, Mealybugs, Spider mites, Whiteflies, Fall webworms on Cherry and Honeysuckle, Budworms on Conifer, Elm leaf beetles, Elm spanworms and Fall webworms on Elms, Tussock moths on Douglas and Grand Firs, Citrus black flies on Non-Bearing Citrus, Oakworms on Oaks, Pine beetles, Pine moths, Pine needleminers, and Needle scales on Pines.	<b>How to Use:</b> Apply as a thorough spray, wetting leaves and branches but do not let runoff occur. Try to penetrate dense foliage. Spray in the late afternoon or evening, when the temperature ranges from 50 to 75°F and when there is little or no wind. Spray at the first sign of insects. Repeat as necessary; use intervals of 4-8 days.
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### USE ON ROSES & FLOWERS

Ageratum, Aster, Azalea, Begonia, Coleus, Common Ninebark and Snowberry, Exacum, Gladiolus, Gold Bells, Hypoestes, Ivy, Lilac, Marigold, Mock-Orange, Nannyberry, Orchid, Pansy, Pea Shrub, Petunia, Poinsettia, Rhododendron, Rose, Snapdragon, Zinnia.	Pests: Aphids, Bagworms, Cicadas, Exposed thrips, Fall cankerworms, Fall webworms, Inchworms, Leafminers, Leafrollers, Mealybugs, Spider mites, and Whiteflies.	<b>How to Use:</b> Apply as a thorough spray, wetting the plants thoroughly, but do not let runoff occur. Try to hit underside of leaves and penetrate dense foliage. Spray in the later afternoon or evening, when the temperature ranges from 50 to 75°F and when there is little or no wind. Spray at the first sign of insects. To maintain effectiveness; spray as reinfestation occurs but use intervals of 7-10 days.
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## STORAGE AND DISPOSAL

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

#### PESTICIDE STORAGE

Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

#### PESTICIDE DISPOSAL AND CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container.

If empty:

Place in trash or offer for recycling if available.

If partly filled:

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

#### OPTIONAL MARKETING CLAIMS:

**Note to PM:** When qualified claims are used on the market label, the qualifying statement will appear in close proximity to the claim when it does not impact any mandatory language.

#### Kill Claims

- Kills Bugs/Insects/Pests/[listed insects]
- Kills/Controls [listed insects] on/by Contact
- Kills/Controls Bugs/Pests/Insects/[listed insects]
- Kills/Controls [listed insects]/wide range of insect species
- Kills listed ants [and many other listed pests [listed insects]]\*  
\*Excluding fire ants, harvester ants, carpenter ants, and pharaoh ants
- Kills [Controls]Fleas
- [Also] Kills Japanese Beetles/Asian Lady Beetles/Boxelder Beetles (Bugs)/ [and many other insects]
- Kills Fleas [Quickly]
- Kills 60+ Insects
- Kills Troublesome and Damaging Insects as Listed
- Kills Wood Infesting Insects \*\*  
\*\* Excluding carpenter ants, termites, and carpenter bees
- Kills Beetles
- Kills Powderpost Beetles and Other Listed Insects
- Kills/Controls Insects: ants \*, crickets/sowbugs (pillbugs)/spiders  
\*Excluding fire ants, harvester ants, carpenter ants, and pharaoh ants

- Kills Wood Destroying Pests\*\*: Old House Borers/Powder Post Beetles/Furniture Beetles/Round-Headed House Borers/Deathwatch Beetles  
\*\* Excluding carpenter ants, termites, and carpenter bees
- Kills Insects: Fleas
- Kills and Suppresses adult and immature stages of Cluster Flies/Flying Moths/Gnats/House Flies
- Kills Ants\* (including Swarming Crazy Ants)/Crickets/Earwigs/Fleas  
\*Excluding fire ants, harvester ants, carpenter ants, and pharaoh ants
- Stops/Breaks the Flea Life Cycle
- Kills [Controls] fleas
- Breaks flea life cycle
- Effectively breaks the flea life cycle preventing future development of adult fleas
- [Also] kills/controls nuisance ants\* [in your yard]  
\*Excluding fire ants, harvester ants, carpenter ants, and pharaoh ants

#### **Residual Claims**

- Provides residual control against home invading insects/pests/bugs\*
- Long-Lasting [up to] [4/5/6 month(s)] [12/16/18/20/24 week(s)] [90/120/150/168 day(s)]
- 12/16/18/20/24 Week Control/Residual\*
- Lasts/Works/Effective [for up to] [4/5/6 months] [12/16/18/20/24 weeks] [90/120/150/168 days]\*
- Stops hatching [flea] eggs (larvae) from developing into Adult Fleas for [4/5/6 months] [12/16/18/20/24 weeks] [90/120/150/168 days]
- Controls Fleas for [up to] [4/5/6 months] [12/16/18/20/24 weeks] [90/120/150/168 days]

\*Prevents flea emergence outdoors for up to 5/6 months /24 weeks /168 days

#### **Barrier Claims**

- Creates a barrier that [will kill] [kills] the listed bugs you have and help new listed bugs from coming [in] [inside your home]
- Immediately forms [creates] [establishes] a [bug] [insect] [Pest] barrier

#### **Site Use Claims**

- For [Residential] Outdoor [Residential] Use [Only]
- For Use Around Residential [Home] Areas [Only]
- For Use on Residential Lawns/Gardens/Patios /Home Picnic Areas [Only]
- For use On [Lawns], [Trees], [Shrubs], [Ornamentals], [Roses] and [Flowers]
- For Use On: Lawns/Ground Covers/Patios/Wooden Structures/ Foundations Around Homes
- Can be applied to Tree Bark
- Treat Soil to Protect Ornamentals
- Penetrates Deep into Cracks and Crevices
- Perfect for Vertical Cracks and Surfaces
- Perfect for Uneven and Difficult to Reach Surfaces
- Foundation and Void Uses
- Surround/Protect/Barricade [your] Whole [Home] Foundation
- Tree, Shrub, and Lawn [Flea] Spray
- Stops Bugs in Your Lawns, Trees, Shrubs & Flowers
- [Also] Stop(s) bugs/Fleas in Your [Also Use on] Lawns [Trees and Shrubs] [Roses & Flowers] [Fruits & Nuts] [Vegetables] [Gardens]
- Spray Around Yard Perimeter
- Treat Outside Surfaces of Buildings, Porches, Wooden Decks, Patios, Fences, Foundations, Wood Piles and Tree Stumps
- Outdoor Building Perimeter Treatment
- Yard & Kennel Spray
- Lawn [& Garden] Flea prevention [spray]
- Use on Lawn and other outdoor areas where pests congregate
- Home Foundation [and Soil] Barrier Treatment

#### **Water-based formula claims**

- No Stains
- Will Not Stain/Non-Staining on [Water-Safe Surfaces]
- Water-based/Non-staining [Formula]
- Dries clear
- Odor Free
- Odorless
- Fragrance-Free
- Unscented
- No lingering/lasting [chemical] odor
- Dries fast/quick[ly]

- Water based [formula] [water droplet icon]
- Non-flammable
- No oily/sticky mess/residue [to clean]
- Dries Clear

**Coverage Claims**

- [Coverage:] [1 quart] 32 oz. Treats Up to 4,000 square feet of lawn
- [1 pint] 16 oz. Treats Up to 2,000 square feet of lawn
- Dilute 4 fluid ounces per gallon of water to treat 500 square feet
- [Dilute 1 fl. oz. per gallon of water to treat 125 sq. ft.](#)
- [1 pint] 16 oz. Treats Up to 2,000 square feet
- [1 quart] 32 oz. Treats Up to 4,000 square feet

**General Claims**

- [Hose end] Ready to Use/Spray [Concentrate]
- Concentrate
- Dual [Modes of] action: Contact [Kill]– Residual [Control]
- Apply when you Need it and Works when you Leave it
- Apply before Insects Invade
- Apply prior to change of/ [at the beginning of each] season for prevention and best results
- Rain (weather) Resistant after an Hour
- Three in One: Crack and Crevice, Spot Treatment, Barrier Treatment
- [Back] [Yard] [Cat] Flea Prevention [Spray]
- Lawn/Flower & Garden Insect Killer
- Contains Esfenvalerate, a residual contact control insecticide that controls [kills] many hard-to-kill sucking and chewing insects
- Contains Nylar® [an insect growth regulator]
- With/Plus Nylar®/[Growth Regulator]
- Pre-Season Treatment
- Home perimeter/barrier treatment
- Treats your yard, not your dog/cat/pet
- [Cat] Flea [Yard] Spray

**Convenience Claims**

- Know You Have your Home Covered
- Back Saver
- [No Mess]/[Easy to Use]/[No Mixing]
- Convenient Delivery Method
- No Mixing Required
- Connect to Hose & Spray
- Ready to Spray
- Hose End Use – Always Shake Well Before Using

**END OF OPTIONAL MARKETING CLAIMS**