



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 22, 2025

Tom Lennan  
tom.lennan@mgk.com  
MCLAUGHLIN GORMLEY KING COMPANY, D/B/A MGK

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Updating optional wording describing the readily dilutable nature of our product and adding language corresponding to interim decisions for product.  
Product Name: MGK Formula 3171  
Admin Number: 1021-2848  
EPA Receipt Dates: 11/11/2024, 11/17/2020, 3/30/2021  
Action Case Numbers: 00638483, 00474064, 00475317

Dear Tom Lennan:

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

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Esfenvalerate and Prallethrin Interim Decisions, and has concluded that your submission is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the 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 EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Eric Ingram via email at [ingram.eric@epa.gov](mailto:ingram.eric@epa.gov).

Sincerely,

A handwritten signature in black ink, reading "Hester Dingle". The script is elegant and cursive, with the first letters of each name being capitalized and prominent.

Hester Dingle, Acting PM 04  
IVB1, RD  
Office of Pesticide Programs

# MGK® Formula 3171

(Microencapsulated Insecticide)

[ ] indicates optional wording

- Kills for up to 12 months\* (1 year)
- \*German Cockroaches on indoor unsealed concrete or cement surfaces
- Kills German cockroaches for up to 12 months (1 year) on indoor, unsealed concrete and/or cement surfaces only
- Controlled Release
- Controlled Release insecticide
- Residual Kill for up to 12 months\* [1 year]
- \*German Cockroaches on indoor unsealed concrete or cement surfaces
- Keeps Killing for up to 12 months\* [1 year]
- \*German Cockroaches on indoor unsealed concrete or cement surfaces
- Combines fast [quick] kill and residual control [controlled release]
- Indoor and Outdoor Controlled Release Insecticide
- Continuous killing for up to 12 months\* [1 year]
- \*German Cockroaches on indoor unsealed concrete or cement surfaces
- Controls for up to 1 year\* [12 months]
- \*German Roaches on indoor unsealed concrete or cement surfaces.
- Quick [Fast] Kill: Kills German Roaches, Spiders and Scorpions within 24 hours.
- Microencapsulated Formula

- For Residential and Commercial Use including Food Handling & Processing
- Kills over 180 listed insects
- Foundation treatment helps prevent infestation by invading insects
- Residual Foundation Treatment
- Indoor broadcast, crack and crevice, and spot treatment options
- For use in and around Livestock Housing
- Synergized for Faster Kill [Action]
- Synergized for enhanced control [kill]
- Synergized formula
- Contains Exponent® brand Synergist
- Kills Ants (excluding fire ants), Spiders, Scorpions, Fleas, and other listed insects
- Kills Asian lady beetles, Stink Bugs, Boxelder Bugs and other listed insects
- Kills Bed Bugs, Fleas, Mosquitoes, and Ticks
- Indoor and Outdoor Use
- For use on Turf and Ornamentals
- Dual Technology
- Dual Action
- Kills mosquitoes that may transmit Zika virus
- Kills mosquitos, including the Aedes mosquito that may transmit Zika virus
- Kills Aedes mosquitoes

## ACTIVE INGREDIENTS:

Esfenvalerate .....	6.40%
Prallethrin .....	1.60%
Piperonyl butoxide .....	8.00%

\*OTHER INGREDIENTS ..... 84.00%

\* Contains petroleum distillates 100.00%

This product contains 0.54 lbs. Esfenvalerate, 0.135 lbs Prallethrin and 0.675 lbs. PBO per Gallon.

Exponent®, MGK® and NyGuard® are registered trademarks of McLaughlin Gormley King Company.

**ACCEPTED**

**01/22/2025**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No.

**1021-2848**

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"><li>▪ Call a poison control center or doctor immediately for treatment advice.</li><li>▪ Do not give <b>any</b> liquid to the person.</li><li>▪ Do not induce vomiting unless told to do so by a poison control center or a doctor.</li><li>▪ Do not give anything by mouth to an unconscious person.</li></ul>
IF IN EYES:	<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 eyes.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>▪ Take off contaminated clothing.</li><li>▪ Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>
<b>NOTE TO PHYSICIAN:</b> Contains petroleum distillate. Vomiting may cause an aspiration pneumonia hazard.	
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  
  
7325 Aspen Lane North  
Minneapolis, MN 55428

EPA Reg. No. 1021-2848

EPA Est. No. 1021-MN-2

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

**STOP—Read The Entire Label Before Use**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear (goggles, face shield or safety glasses with side shields). Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and other aquatic invertebrates. To protect the environment, do not allow pesticide to enter or runoff 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 runoff to water bodies or drainage system.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirement of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees or other pollinating insects are foraging in the treatment area.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**DIRECTIONS FOR USE**

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

For both indoor and outdoor use

**USE RESTRICTIONS:**

- Remove pets and birds and cover fish aquariums before spraying.
- Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.
- Do not apply to classrooms while in use.
- Do not apply in institutions (including libraries, schools, sports facilities, etc.) in the immediate area where occupants are present.
- Do not apply as a space spray in residential sites.
- DO NOT use this product as a fogger or apply it as a space spray.
- Use only in areas described.
- Remove pets and cover fish aquariums and pet's food and water dishes before spraying.
- Keep all people (especially children) and pets out of areas being treated and restrict access to these areas until all surfaces are dry.
- DO NOT leave product where children or pets can come into contact with it.
- DO NOT allow spray to contact food or food-containing surfaces, feed, or water supplies.
- Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated with this product. Food utensils such as teaspoons and measuring cups must not be used for food purposes after use with pesticides.
- Do not apply in electrical conduits, junction and switch boxes, motor housings, or other electrical equipment due to shock hazard from water-based spray.
- Do not apply when food processing facility is in operation or foods are exposed. Do not apply this spray to surfaces or utensils that may come into contact with food.
- In the home, cover exposed food and do not allow spray to contact food surfaces. If spray does contact these surfaces, clean surfaces with soap and water.
- Do not allow to enter indoor or outdoor drains unless labeled for drain treatments. No permita la entrada a desagües internos o externos a menos que el etiquetado indique que está permitido el uso del producto para tratamiento de desagües.



{Note to reviewer: Pictogram must be no smaller than 1.5 cm<sup>2</sup> or 0.25 sq. in. unless size is greater than 10% of label size}

- Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).
- Treat surfaces to ensure thorough coverage but avoid runoff
- To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

For control of insects, indoors and outdoors, in the following food and non-food areas: Homes, Schools, Warehouses, Office Buildings, Apartment Buildings, Theaters, Hotels, Industrial Buildings, Motels, Kennels, Livestock Housing, Food Processing Plants, Food Service Establishments, Restaurants, Supermarkets and Grocery Stores, Transportation Equipment, Truck Trailers, Railroad Cars, and Food Manufacturing and Warehousing Establishments. Also for use on Back Yards, Lawns, Trees, Ornamental Landscaping, Recreational Areas, Parks and Athletic Fields.

[MGK Formula 3171 is an emulsifiable concentrate that is readily dilutable in water, making this formula acceptable for tank mixing and for formulating end use water-based ready to use products]

**Insects Controlled:**

Ants (excluding fire ants), Aphids, Asian Lady Beetles, Bed Bugs, Beetles, Boxelder Bugs, Brown Marmorated Stink Bugs, Carpet Beetles, Cockroaches, Crickets, Dog Ticks, Earwigs, Firebrats, Fleas, Kudzu Bugs, Mealybugs, Midges, Millipedes, Mites, Pillbugs, Psocids, Scales, Silverfish, Spiders, Springtails, Swarming Termites, Ticks, Waterbugs.

**Stored Product Pests:**

Angoumois Grain Moths, Ants, Cadelles, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Driedfruit Beetles, Drugstore Beetles, Flat Grain Beetles, Fruit Flies, Grain Mites, Grain Moths, Granary Weevils, Indian Meal Moths, Lesser Grain Borers, Maize Weevils, Meal Moth Larvae, Mediterranean Flour Moths, Merchant Grain Beetles, Red Flour Beetles, Rice Weevils, Rusty Grain Beetles, Sawtoothed Grain Beetles, Skippers, Spider Beetles, Spider Mites, Squarenecked Grain Beetles, Tobacco Moths, Yellow Mealworms.

**Flying Insects:**

Blow Flies, Chiggers, Clothes Moths, Cluster Flies, Crane Flies, Deer Flies, Face Flies, Fruit Flies, Fungus Gnats, Gnats, Horn Flies, House Flies, Mosquitoes, Small Flying Moths, Whiteflies.

**Biting and Stinging Pests:**

Bed Bugs, Bees, Biting Flies, Chiggers, Deer Flies, Deer Ticks, Dog Ticks, Fleas, Gnats, Hornets, Lice, Mosquitoes, Scorpions, Spiders, Ticks, Wasps, Yellowjackets.

**Wood-Destroying Pests:**

Carpenter Ants, Carpenter Bees, Deathwatch Beetles, Furniture Beetles, Old House Borers, Powder Post Beetles, Roundheaded House Borers, Swarming Termites.

**Plant Pests:**

Alfalfa Caterpillars, American Plum Borers, Annual Bluegrass Weevils, Aphids, Apple Maggots, Armyworms, Artichoke Plum Moths, Bagworms, Balsam Woolly Adelgids, Beet Armyworms, Billbugs, Blueberry Spanworms, Brown Marmorated Stink Bugs, Cherry Fruit Flies, Cherry Fruitworms, Chinch Bugs, Codling Moths, Cowpea Curculios, Cranberry Fruitworms, Cranberry Weevils, Cucumber Beetles, Cutworms, Diamondback Moths, Elm Leaf Beetles, European Pine Sawflies, Fall Webworms, Filbertworms, Flea Beetles, Grasshoppers, Green Cloverworms, Green Fruitworms, Gypsy Moth Caterpillars, Hickory Shuckworms, Imported Cabbageworms, Japanese Beetles, Kudzu Bugs, Lace Bugs, Leaf Feeding Caterpillars, Leafhoppers, Leafminers, Leafrollers, Leaf tiers, Lesser Appleworms, Lesser Peachtree Borers, Loopers, Lygus Bugs, Mexican Bean Beetles, Mites, Mole Crickets, Naval Orangeworms, Northern Pine Weevils, Oriental Fruit Moths, Painted Lady Caterpillars, Pea Weevils, Peach Twig Borers, Peachtree Borers, Pear Psyllids, Pear Slugs, Pecan Leaf Phylloxera, Pecan Nut Casebearers, Pecan Spittlebugs, Pecan Stem Phylloxera, Pecan Weevils, Pepper Weevils, Periodical Cicadas, Pickleworms, Pillbugs, Pine Chafers, Pine Coreid Bugs, Plant Bugs, Plum Curculios, Red Pine Sawflies, Redheaded Pine Sawflies, Red-striped Fireworms, Rindworms, Salt Marsh Caterpillars, Sap Beetles, Scales, Sod Webworms, Sowbugs, Spiders, Spittlebugs, Stink Bugs, Tarnished Plant Bugs, Tent Caterpillars, Thrips, Tobacco Hornworms, Tufted Apple Bud Moths, Velvet Bean Caterpillars, Walnut Husk Flies, Western Bean Cutworms, Whiteflies.

**PRODUCT INFORMATION:**

MGK® FORMULA 3171 is a microencapsulated insecticide in a suspension concentrate containing the following pounds of active ingredient per gallon: Esfenvalerate (0.54 lbs.), Prallethrin (0.135 lbs.), Piperonyl butoxide (0.675 lbs.).

MGK FORMULA 3171 combines fast kill [action] and long residual activity against pests listed on this label when applied as surface or spot treatments, injected into wall voids, or as a crack and crevice spray in and around residential and commercial structures, as well as on turf and landscaping. MGK FORMULA 3171 may be sprayed on any surface that will not be stained by water. Use injector application equipment that delivers low volume treatments to make crack and crevice injections or spot and general surface treatments.

**APPLICATION IN FOOD PROCESSING/HANDLING ESTABLISHMENTS:**

Application is permitted within food and non-food areas of food service and handling establishments (places other than private residences),: Restaurants, Meat Processing Plants, Grocery Stores, Bakeries, Food Manufacturing and Processing Establishments, and Food Warehousing Establishments. Do not treat establishments where livestock feed is present.

Food areas include areas for receiving, storing, packing, canning, bottling, wrapping, boxing, preparing, edible waste storage, and enclosed processing systems, mills, and dairies. Serving areas are places where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. Non-food areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets, and storage after canning or bottling.

General Surface Applications: Do not apply MGK FORMULA 3171 as a general surface application in food areas of the facility when the facility is in operation or food is exposed. Do not apply directly to food. Cover or remove all food and food processing equipment prior to application. After spraying in meat packing plants, bakeries, and other food processing plants, wash with an effective cleaning compound, and then rinse all equipment, benches, shelving, etc. where exposed food will be handled with potable water. Repeat applications as needed, but do not exceed more than one (1) application every fourteen (14) days.

Spot or Crack and Crevice Applications: Spot or crack and crevice applications may be made while facility is in operation, provided exposed food is covered or removed from the area being treated. Do not apply directly to food or food-handling surfaces. Repeat applications as needed, but do not exceed more than one (1) application every fourteen (14) days.

**MIXING INSTRUCTIONS:**

Mix MGK FORMULA 3171 with water and apply with hand pressurized or power operated sprayers. Agitate container of MGK FORMULA 3171 before diluting by inverting it several times. Clean spray equipment before and after use. For dilution, add approximately half the required water to spray tank and then add the appropriate amount of MGK FORMULA 3171. Agitate, and slowly add the remaining water. Agitate spray thoroughly before using and also occasionally during use to ensure dispersion. If spray filter screens are used, they should be 50 mesh or larger. Use 0.5 fl. oz. (15 cc.) of MGK FORMULA 3171 in 1 gallon of water for light infestations or as a maintenance control rate. Use 1.0 fl. oz. (30 cc.) per gallon of water for heavy infestations or as an initial clean out rate. Apply two-second bursts of spray per square foot of area being treated. Do not apply excessively; dampen surface but not to the point of saturation or runoff. Only dilute MGK FORMULA 3171 with water.

MGK FORMULA 3171 may be sprayed on any surface that will not be stained by water. If you are concerned about staining or are not sure if a surface is water safe, test the surface by spraying a small amount in an inconspicuous area before making a broad application.

The following chart indicates the percent of active ingredients that is in the sprayer tank after mixing MGK FORMULA 3171 at either rate:

Dilution Rate in Water	0.5 fl. oz. per Gallon	1.0 fl. oz. per Gallon
	Final % concentration of Active Ingredients	Final % concentration of Active Ingredients
Esfenvalerate	0.025%	0.050%
Prallethrin	0.006%	0.012%
Piperonyl butoxide	0.031%	0.063%
TOTAL % Concentration of all Actives	0.062%	0.125%

#### **Tank Mixing:**

MGK FORMULA 3171 may be tank mixed with an insect growth regulator such as NyGuard® IGR Concentrate or pyrethrum-containing products or any other currently registered pesticides unless expressly prohibited by the product label. The resulting tank mix may be applied in areas where these products are allowed to be sprayed. Do not tank mix MGK FORMULA 3171 with products containing dichlorvos (DDVP).

#### **INDOOR USE:**

##### **Application Rates for Indoor Structural Pests:**

Pests	Dilution Rate In Water	Application Rate of Mixed Solution	Application Method(s)
<b>Spiders and other listed Crawling Insects</b> Light Infestation	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft. (40 ml/m <sup>2</sup> )	Apply as a coarse, wet spray * Broadcast Surface Spray * Crack and Crevice Treatment * Spot Treatment * Injected into Wall Voids
Heavy Infestation	1.0 fl. oz. / gallon (7.93 ml/L)		
<b>Listed Flying Insects</b>	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft. (40 ml/m <sup>2</sup> )	
<b>Scorpions and other listed Stinging Insects</b>	1.0 fl. oz. / gallon (7.93 ml/L)	1 gallon / 1,000 sq. ft. (40 ml/m <sup>2</sup> )	
<b>Ticks</b>	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft. (40 ml/m <sup>2</sup> )	Apply as noted above, with a fine particle spray.
<b>Fleas, Lice &amp; Bed Bugs</b>	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft. (40 ml/m <sup>2</sup> )	

#### **Spiders, Scorpions, and other listed Crawling Insect Pests Indoors:**

Apply as a coarse, wet spray to surfaces where these pests are normally found. Treat floors, baseboards, around doors and windows, in attics, crawl spaces, eaves, corners, closets, walls, utility pipes, storage areas, and cracks and crevices. Treat underneath sinks, dishwashers, refrigerators, stoves, the underside of shelves, drawers, cabinets, areas behind pipes, and in places where these insects shelter. Contact as many insects as possible with direct spray. Repeat applications as needed, but do not exceed more than one (1) application every seven (7) days.

#### **For Ant Control Indoors:**

Apply to ant trails, around garbage receptacles, and near food sources. Also apply around doors and windows and wherever these pests may find entrance to the structure. Remove sources of food through basic hygiene practices whenever possible.

#### **Listed Flying Insect Pests Indoors:**

Treat insect resting areas: walls and ceilings, screens, around windows, doors, and light fixtures, and other surfaces that attract flying insects. Initiate treatments at the beginning of fly season, and repeat treatments during periods of heavy infestation.

#### **Listed Stinging Insect Pests Indoors:**

Apply spray to nests late in the evening when stinging insects are at rest. Thoroughly spray nest, nest entrance, and surrounding areas where insects land or walk. Treat around doors and windows, in attics, crawl spaces, and possible harborage sites or points of entry.

#### **For Control of [Brown Dog Ticks] [Ticks]:**

Thoroughly apply as a spot treatment to infested areas: pet beds and resting areas, nearby cracks and crevices, along and behind baseboards, window and door frames, and localized areas of floor and floor coverings where these pests may be present. DO NOT SPRAY PETS WITH THIS PRODUCT. Treat dogs and cats with a product registered for use on animals.

#### **For Control of Fleas:**

Thoroughly apply as a fine particle broadcast spray to infested rugs, carpets, and pet resting areas. Prior to treatment, cover aquariums and fish bowls, and remove pet animals from the area being treated. Do not permit humans or pets to contact treated surfaces until spray has dried. Remove pet bedding and replace with clean, fresh bedding after treatment. DO NOT SPRAY PETS WITH THIS PRODUCT. Treat dogs and cats with a product registered for use on animals.

#### **To Control Bed Bugs:**

Thoroughly clean and vacuum mattresses, box springs, floors, and surfaces. Treat mattresses and box springs with an approved pesticide, such as a pyrethrin aerosol. Apply MGK FORMULA 3171 as a spot treatment to potential harborage sites and migration paths, and cracks and crevices, around baseboards, floorboards, headboards, wall voids and walls.

**For Control of Listed Stored Product Pests:**

Spray thoroughly around and into floor drains, non-food conveyors, benches, pipes, pallets, moist areas, storage racks, pieces of equipment, and areas where stored product pests may be found. Tank mix or sequential use of an insect growth regulator, such as NyGuard® IGR Concentrate, is recommended to break the insect reproduction cycle. Do not apply this spray to surfaces or utensils that may come in contact with food, since excessive residues in food may result.

**To Treat Voids in Equipment and Structures:**

To kill insects harboring in wall voids and other inaccessible spaces in equipment and structures, use injection equipment designed for deep void applications. Follow the injection equipment manufacturer's recommendations for proper set up and air pressures. Place the applicator tip at or into the void space to be treated. For inaccessible voids, it may be necessary to drill an access hole(s). Inject product into the void space in short bursts, allowing air pressure to push insecticide deep into the space. Do not apply to the point of runoff or drip. Ventilate area thoroughly before re-entry. Do not reapply more than every fourteen (14) days.

**To Kill the Accessible Stages of Listed Granary Insects:** Use this concentrate to treat grain storage facilities, and other listed areas, for stored product pest control. For control of exposed adult and immature stages of stored product pests, apply to cracks, crevices, and other surfaces where the pests have been seen or have harborage. Treat areas where products are stored before filling with the product. Apply at the rates listed above, using one gallon of spray mix per 1,000 square feet of surface area to be treated. Cleaning all areas prior to use will increase levels of control. Remove and destroy foodstuffs infested with pests.

Repeat application as needed, but do not exceed more than one application every fourteen (14) days.

**USE IN AND AROUND LIVESTOCK HOUSING:**

For use in and around unoccupied areas of livestock facilities, such as: Barns, Cow and Calf Pens & Hutches, Dairy Barns & Milk Rooms, Hog Barns, Horse Barns, Sheep Barns, Poultry Houses, and Rabbit Hutches. Do not contaminate milk, food, or drinking water. Remove animals from area being treated. Cover feeders and waterers. Do not apply or allow insecticide to drift onto animals. Do not allow animals to enter treated areas until spray solution has dried.

Pests	Dilution Rate In Water	Application Method(s)
<b>Listed Crawling Insects</b> * Including litter beetles	1 fl. oz. / gallon (7.93 ml/L)	Apply as a coarse, wet spray * General Surface Spray * Crack and Crevice Treatment * Spot Treatment * Injected into Wall Voids
	or 1 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.32 ml/m <sup>2</sup> )	
<b>Listed Flying Insects</b>	0.5 fl. oz. / gallon (3.97 ml/L)	
	or 0.5 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.16 ml/m <sup>2</sup> )	

**Listed Crawling Insect Pests in Livestock and Poultry Premises:**

Apply as a general surface, spot treatment, and/or crack and crevice treatment. Apply to floors and vertical and overhead surfaces where crawling insects are or may be present. Treat stanchions, pipes, windows, doors, posts, cage framing, gates, under (but not in) feeders, and other areas where insects hide or congregate. To reduce immigration of insects, make a perimeter treatment around the outside of building foundations. Apply in a uniform band 1 to 2 feet (0.3 to 0.6 m) up the exterior foundation wall and 3 to 6 feet (0.3 to 1.8 m) out from the foundation.

**Litter Beetle Control in Livestock and Poultry Premises:**

To control litter beetles (darkling, hide, and carrion beetles), apply MGK FORMULA 3171 to walls and floors at cleanout and before reintroduction of animals. Treat areas where beetles frequently occur, such as walls, supports, cages, cage framing, stalls, and around feeders. To reduce immigration of insects, make a perimeter treatment around the outside of building foundations. Apply in a uniform band 1 to 2 feet (0.3 to 0.6m) up the exterior foundation wall and 3 to 6 feet (0.3 to 1.8 m) out from the foundation.

**Listed Flying Insect Pests in Livestock and Poultry Premises:**

For residual control of listed flying insects, treat insect resting areas: walls, ceilings, screens, around windows, doors, light fixtures, and other surfaces that attract flying insects. Initiate treatments at the beginning of fly season and repeat treatments during periods of heavy infestation. Tank mix or sequential use of an insect growth regulator, such as NyGuard IGR Concentrate, is recommended to break the insect reproduction cycle.

**OUTDOOR USE:****SPRAY DRIFT ADVISORIES**

- **Take precautions to minimize spray drift.**

**Use Restrictions:**

- Do not spray in or near fishponds or other bodies of water.
- Do not water the treated area to the point of runoff.
- Do not apply directly to sewers or drains, or any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.
- Do not apply when wind speed is greater than 15 mph.
- Not for use on plants being grown for sale or other commercial use. Not for use in nurseries, sod farms or golf courses.
- Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours). Rainfall within 24 hours after application may cause unintended runoff of pesticide application.
- Do not apply when the wind speed is greater than 15 mph.
- Do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not apply or irrigate to the point of runoff.
- Do not apply the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers

- or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- Do not allow the product to enter any drain during or after application.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios
- except as a spot or crack-and-crevice treatment.
- For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds
- Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- Do not allow the product to enter any drain during or after application
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment
- Do not apply or irrigate to the point of runoff.
- Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).

**Crack and Crevice:**

- Treat surfaces to ensure thorough coverage but avoid runoff.
  - To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.
- All outdoor applications, if permitted elsewhere on this label must be limited to spot or crack and crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:
    1. Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
    2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn);
    3. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
    4. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;
    5. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
    6. Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters.

**Outdoor Application Rates for Spiders, Scorpions and other listed pests:**

	<b>Dilution Rate In Water</b>	<b>Application Method(s)</b>
<b>Treating Exterior Walls, Foundations and Structures</b>	0.5 to 1 fl. oz. / gallon (3.97 ml to 7.93 ml/L) or 0.5 to 1 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.16 ml to 0.32 ml/m <sup>2</sup> )	Apply as a coarse, wet spray * Crack and Crevice Treatment * Spot Treatment * Broadcast Spray Treatment <sup>1</sup>
<b>Treating nests and harborage areas of listed stinging insects</b>	1 fl. oz. / gallon (7.93 ml/L) or 1 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.32 ml/m <sup>2</sup> )	Apply as a coarse, wet spray * Crack and Crevice Treatment * Spot Treatment
<b>To Control Swarming Termites and Wood Destroying Pests</b>	1 fl. oz. / gallon (7.93 ml/L) or 1 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.32 ml/m <sup>2</sup> )	
<b>Treating Ornamental Trees and Landscapes</b>	0.1 to 1.0 fl. oz. / gallon (0.793 ml to 7.93 ml/L) or 0.1 to 1.0 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.032 ml to 0.32 ml/m <sup>2</sup> )	Apply as a spray * Broadcast Spray Treatment * Foliar Spray Treatment
<b>Mosquito Breeding Sites</b>	0.5 fl. oz. / gallon (3.97 ml/L) or 0.5 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.16 ml/m <sup>2</sup> )	
<b>Treating Lawns and Turf</b>	0.1 to 1 fl. oz. / gallon (0.79 ml to 7.93 ml/L) or 0.1 to 1 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.032 ml to 0.32 ml/m <sup>2</sup> ) or 4.3 to 43 fl. oz. per acre (127 ml to 1,271 ml/acre)	Apply as a coarse, wet spray * Broadcast Spray Treatment
For crack and crevice treatments, treat surfaces to ensure thorough coverage but avoid runoff. To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.		
<sup>1</sup> Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters in order to control occasional invaders or aggregating pests as listed on this label.		

**Treating exterior walls, foundations and structures:**

To control infestations of listed pests, treat exterior surfaces of buildings, walls, window frames, around garbage cans, eaves, cracks and crevices, porches, decks, gazebos, patios, carports, siding, garages, fence lines, and areas where pests are active or may be hiding.



To help prevent insect infestation of buildings: Treat a 2 to 6 foot (0.6 to 1.8 m) band of soil or other substrate adjacent to buildings. Treat building foundation to a height of 2 feet (0.6). Treat exterior walls, siding, eaves, cracks and crevices, and other areas where listed pests are active, and may find entrance into building.

Apply with sufficient water to adequately cover the area being treated, but do not allow dripping or runoff to occur. Alternate mixing directions are to use 2 to 4 fl. oz. of concentrate per 50 gallons of water.

**Listed Stinging Insect Control Outdoors:**

For listed stinging insects, apply spray solution to nests and harborage areas late in the evening when stinging insects are commonly at rest. Thoroughly spray nest, nest entrance, harborage sites, and surrounding areas where insects land or walk. For nests inside walls, inject sufficient spray to treat nest. Do not use in areas where an electrical shock hazard exists. For applications made when pests are active, applicator should wear protective equipment as required. Repeat application when there are signs of renewed insect activity.

For Yellowjacket control, MGK FORMULA 3171 can be mixed with baits in traps. Follow trap instructions for preparation of bait.

**Fleas and Ticks Outdoors:**

To control fleas and pet ticks, apply to kennels, runs, and areas that pets have been present. For best outdoor control of ticks, apply spray to vegetation, brush, branches, and areas near habitation where ticks may harbor or frequent. Treat the entire area and retreat as necessary to maintain control. Do not apply to pasture or cropland and do not allow animals and people to access to treated areas until the application has dried. **DO NOT SPRAY PETS WITH THIS PRODUCT.** Treat dogs and cats with a product registered for use on animals.

**Listed Insect Control in Ornamental Trees and Landscapes:**

For residential and commercial trees, shrubs, ground covers, and bedding and foliage plants that will not be harvested for food, apply MGK FORMULA 3171 in appropriate volumes of water to obtain thorough coverage. Apply as a full-coverage foliar spray, applying to the point of runoff. Treat active soil pests with an application to surrounding soil. Repeat treatments as necessary to achieve control, using higher labelled rates as pest pressure and foliage area increases. Repeat applications as necessary, but no more than once every seven (7) days. Certain plants may be sensitive to the final spray solution. A small-scale test is recommended to verify safety to ornamental plants. Spray and observe for one (1) week prior to application of an entire planting.

**Listed Insect Control on Lawns, Turf Grass, and Turf:**

Mow lawn or turf grass 1 to 2 days before spraying. Treat with spraying equipment or a hand sprayer. Use application volumes of up to 10 gallons per 1,000 square feet (400 ml/m<sup>2</sup>) to get uniform coverage when treating dense grass foliage. For low volume applications using less than 2 gallons of spray solution per 1,000 square feet (80 ml/m<sup>2</sup>), immediate irrigation with at least 0.25 inches (0.635 cm) of water is recommended to improve effectiveness on sub-surface pests.

When hand spraying, spray using a slow, even sweeping motion, making sure to cover the entire lawn or turf grass area where pests are observed. Spray under ornamentals and trees. Repeat treatments may be necessary at 7 to 14 day intervals.

**Rate Range:**

Use labelled lower rate range for pests that are commonly exposed and will be contacted by spray solution at the time of application. For pests that will not be contacted by spray solution at the time of application, use the upper labelled rate range. Use 1 fl. oz. per 1,000 sq. ft. (7.93 ml/L) when treating Mole Crickets and Chinch Bugs.

**To Kill Swarming Termites: OUTDOORS ONLY.**

Apply spray mix as a coarse, wetting spray when swarming termites are seen emerging from woodpiles, wooden fence posts, wooden structures, or from the ground. Swarming usually occurs in the spring or at other times when a termite colony becomes overcrowded and new reproductive termites with wings emerge and fly away to mate and establish new colonies. This treatment will control the sprayed termites and will not protect the structure from which the swarm is coming. Use only as a contact spray to kill emerging reproductive (winged) and worker termites emerging from infested wood. This treatment is not a substitute for a comprehensive termite control program.

**To Kill Listed Wood Destroying Pests: OUTDOORS ONLY.**

Apply spray mix as a coarse, wetting spray to exposed pests and to the damaged areas of wood, spraying into galleries or tunnels in the exposed wood. Also, spray around doors, window and door frames, and areas where these pests may hide or enter the house. Spray into cracks and crevices and, if necessary, drill small holes and spray into inaccessible wooden structural voids where these pests are suspected.

**Mosquito Breeding sites:**

Mosquito populations may be reduced by application of MGK FORMULA 3171 to sites where mosquitoes rest, harbor, and breed. Apply spray solution into tall grass, shrubbery, and around back yards and lawns where these pests may hover or rest. Apply while air is still.

Not for wide area mosquito abatement using aerial or truck mounted cold aerosol ULV sprayers and thermal fogging devices.

## STORAGE AND DISPOSAL

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

Follow proper disposal procedures on this label. Siga las indicaciones del etiquetado para el desecho apropiado del producto.

### PESTICIDE STORAGE:

Store in a cool, dry area under lock and key. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Place liquid formulations on lower shelves and dry formulations above.

### PESTICIDE DISPOSAL:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local government or by industry). Do not pour or dispose down-the-drain or sewer.

### CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill this container.

[For containers with capacities equal to or less than 5 gallons] Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into the application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

[For containers with capacities greater than 5 gallons] [Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.]

[Or for refillable containers]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[For totes/55 gal containers]

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.