



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

September 11, 2025

Thomas Lennan  
Senior Regulatory Affairs Specialist  
McLaughlin Gormley King Company  
7325 Aspen Lane N  
Minneapolis, MN 55428

Subject: Label Amendment - Registration Review Mitigation for Prallethrin, Lambda-cyhalothrin and Pyriproxyfen  
Product Name: MGK Formula 3172  
EPA Registration Number: 1021-2847  
Application Date: March 19, 2021 and February 11, 2022  
Case Number: 482561 and 665970

Dear Thomas Lennan:

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

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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the 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 12 months from the date of this letter. After 12 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.

If you have any questions about this letter, please contact Lauren Weisenborn via email at [weisenborn.lauren@epa.gov](mailto:weisenborn.lauren@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Cathryn Britton". The signature is fluid and cursive, with the first and last names being clearly legible.

Cathryn Britton  
Chief, Risk Management and Implementation  
Branch V  
Pesticide Re-evaluation Division (7508M)  
Office of Pesticide Programs

ENCLOSURE: Stamped label

# MGK® Formula 3172

(Microencapsulated Insecticide)

LAMBDA-CYHALOTHRIN PRALLETHRIN PYRIPROXYFEN	GROUP	3A 3A 7C	INSECTICIDES
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[ ] Indicates optional language

## ACTIVE INGREDIENTS:

Lambda-cyhalothrin.....	4.00%
Prallethrin.....	0.40%
Pyriproxyfen.....	1.30%
Piperonyl butoxide.....	6.00%
OTHER INGREDIENTS.....	88.30%
	100.00%

This product contains 0.336 lbs. Lambda-cyhalothrin, 0.0336 lbs. Prallethrin, 0.109 lbs. Pyriproxyfen and 0.503 lbs. PBO per gallon.

## 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>Have person sip a glass of water if able to swallow.</li><li>Do not induce vomiting unless told to by a poison control center or doctor.</li><li>Do not give anything 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>
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 for:

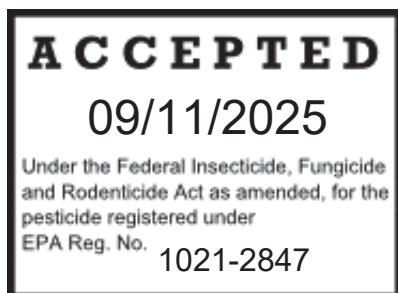


7325 Aspen Lane North  
Minneapolis, MN 55428

EPA Reg. No. 1021-2847

EPA Est. No. 1021-MN-2

Net Contents \_\_\_\_\_ fl. oz. [Quart(s)] [Gallons]



## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if swallowed. 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. Wear protective safety glasses and the following additional PPE:

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeved shirt,
- Long pants,
- Chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, or Viton, and
- Shoes and socks.
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In addition, mixers, loaders, and applicators using mechanically pressurized handguns on landscaping trees and shrubs must wear coveralls over long-sleeved shirt and long pants."

In addition to the above PPE, applicators using a high pressure hand wand in an enclosed area must wear at least a NIOSH-approved respirator with:

- A particulate filtering facepiece respirator with any N, R or P filter; OR
- A NIOSH-approved elastomeric particulate respirator with any N, R or P filter: OR
- A NIOSH -approved powered air purifying respirator with HE filters.

In addition to the above PPE, applicators using handheld foggers in an enclosed area must wear a NIOSH-approved particulate filtering facepiece respirator with any N\*, R or P filter OR

- NIOSH-approved elastomeric particulate respirator with any N\*, R or P filter
- A NIOSH-approved powered air purifying respirator with HE filters."

#### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

#### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively foraging in the treatment area.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution 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 the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not apply this product around electrical equipment due to the possibility of shock hazard.

## PESTICIDE RESISTANCE MANAGEMENT

MGK® Formula 3172 contains a Group 3 and Group 7 insecticide. Insect biotypes with acquired resistance to Group 3 and Group 7 may eventually dominate the insect population if Group 3 and 7 insecticides are used repeatedly or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by MGK Formula 3172 or other Group 3 or 7 insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of MGK Formula 3172 or other Group 3 and 7 insecticides that have a similar target site of action, on the same insect species.
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive IPM program.
- Monitoring treated insect population for loss of field efficacy.

Contact your local extension specialist, and/or manufacturer for insecticide resistance management and or IPM recommendations for the specific site and resistance pest problems.

## **DIRECTIONS FOR USE**

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

**Read and follow ALL label directions when [using] [applying, treating with] this product.**

For both indoor and outdoor use.

### **USE RESTRICTIONS**

READ ALL DIRECTIONS COMPLETELY BEFORE USE AND FOLLOW ALL DIRECTIONS AND PRECAUTIONS WHEN USING PRODUCT.

- **DO NOT use to directly treat residential lawns and turf in residential settings (e.g. homes, parks, schools, athletic fields or any other area frequented by the general public).**
- **In New York state, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.**
- **In New York state, for outdoor broadcast and foliar applications, do not apply more than 1 fl. oz. of MGK Formula 3172 per 1,000 sq. ft.**
- Do not water the treated area to the point of runoff.
- Do not make outdoor broadcast applications when wind speed is 15mph or greater.
- 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."
- Not for wide area mosquito abatement using aerial application or truck-mounted cold aerosol ULV sprayers and thermal fogging devices.
- 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 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}

- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.
- All outdoor spray applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:
  1. Application to pervious surfaces such as soil 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 or mulch);
  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, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters
- 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.
- Spot treatments must not exceed two square feet in size. (for example, 2 ft. by 1 ft. or 4ft. by 0.5 ft)
- Do not allow the product to enter any drain during or after application.
- 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 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 in electrical conduits, junction and switch boxes, motor housings or other electrical equipment due to shock hazard from water-based spray.
- Do not mix this product with oil.
- Do not apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room. Restrict access until all surfaces are dry.
- Do not apply to classrooms when occupied.
- Do not apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.
- Keep all people and pets out of areas (indoors and outdoors) being treated and restrict access to these areas until all surfaces are dry. Cover fish aquariums and pets' food and water dishes before spraying.
- Do not use in aircraft cabins.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- Do not spray pets
- Do not apply to carpets and hard surfaces as a pin stream or coarse spray treatment.

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.

Use only in areas described. For best results, follow directions for specific use areas.

## PESTS CONTROLLED

Ants, aphids, Asian lady beetles, beetles, boxelder bugs, carpenter bees, carpet beetles, caterpillars, centipedes, chinch bugs, clothes moths, clover mites, cockroaches, crickets, daddy-longlegs, darkling beetles, earwigs, fleas, flies (including cluster flies, crane flies, drain flies, fruit flies, house flies and phorid flies), firebrats, kudzu bugs, litter beetles, non-biting midges, mealybugs, millipedes, mites (including northern fowl), mole crickets, mosquitoes, pillbugs, poultry lice, psocids, scales, scorpions, silverfish, sowbugs, spiders, springtails, spruce spider mites, stink bugs (including brown marmorated), stored product pests, ticks, twospotted spider mites, wasps, whiteflies.

## USE AREAS

For control of listed insects, indoors and outdoors, in food and non-food areas: Trees, ornamental landscaping, recreational areas, parks and athletic fields. Also for use in and around homes, schools, warehouses, office buildings, apartment buildings, theaters, hotels, resorts, industrial buildings, motels, camp sites/campgrounds, aircraft cargo areas, kennels, livestock and poultry housing, deer pens and enclosures, horse stables, feed lots, mink production facilities, zoos, wild animal parks, food processing plants, food service establishments, restaurants, outdoor dining areas, supermarkets and grocery stores, transportation equipment, truck trailers, railroad cars and food manufacturing and warehousing establishments.

**Treatments turf must only be made in non-residential areas or other areas that are NOT frequented by the general public.**

This product should not stain or cause damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. Treat a small area and allow it to dry to determine whether staining will occur.

## APPLICATION METHODS

Broadcast spray treatment  
Foliar spray treatment  
Spot, crack and crevice treatment  
Structural perimeter treatment  
Surface spray treatment

## APPLICATION EQUIPMENT

Includes, but is not limited to:  
Backpack mist blowers  
Backpack sprayers  
Handheld sprayers  
Mist sprayers  
Power sprayers

## MIXING INSTRUCTIONS

MGK Formula 3172 should be diluted with water only and applied with hand-pressurized or power-operated equipment. Clean equipment before and after use. Agitate the container of MGK Formula 3172 before diluting by inverting it several times. For dilution, add approximately half the required water to the tank and then add the appropriate amount of MGK Formula 3172. Agitate and slowly add the remaining water. Agitate the mixture thoroughly before using and occasionally during use to ensure dispersion. Avoid excessive application.

Active Ingredient	Final % Concentration of Active Ingredient		
	1.0 fl. oz. per gallon	1.5 fl. oz. per gallon	2.0 fl. oz. per gallon
Lambda-cyhalothrin	0.031%	0.046%	0.062%
Prallethrin	0.003%	0.005%	0.006%
Pyriproxyfen	0.010%	0.015%	0.020%
Piperonyl butoxide	0.047%	0.070%	0.092%
<b>Total % Concentrate of all Active Ingredients</b>	<b>0.091%</b>	<b>0.136%</b>	<b>0.180%</b>

### Tank Mixing:

MGK Formula 3172 can be tank mixed with other currently registered products unless expressly prohibited by the product label. To ensure compatibility, conduct a small volume mixing test with the other products. Do not tank mix MGK Formula 3172 with products containing dichlorvos (DDVP).

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, spray drift management from another.)

### Foam Applications:

MGK Formula 3172 may be converted to foam, which can be used to treat structural voids to control or prevent listed pests harboring in walls, under slabs, or in other void areas.

## OUTDOOR USE

### SPRAY DRIFT ADVISORIES

- Take precautions to minimize spray drift.

Application Site	Pest	Dilution Rate In Water	Application Method(s)
Mosquito Habitats <sup>1</sup>	Mosquitoes	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.  <b>In New York state, for outdoor broadcast and foliar applications, do not apply more than 1 fl. oz. of concentrate per 1,000 sq. ft.</b>	<ul style="list-style-type: none"><li>Broadcast spray treatment</li><li>Foliar spray treatment</li><li>Spot treatment</li></ul>
Ornamentals and Landscapes <sup>2</sup>	Ants, aphids, beetles, boxelder bugs, carpenter bees, caterpillars, centipedes, clover mites, crane flies, flies <sup>4</sup> , mealybugs, millipedes, mites (including northern fowl), psocids, scales, silverfish, sowbugs, stink bugs (including brown marmorated), whiteflies	1.0 fl. oz. to 1.5 fl. oz. per gallon or 1.0 fl. oz. to 1.5 fl. oz. in sufficient water to cover 1,000 sq. ft.  <b>In New York state, for outdoor broadcast and foliar applications, do not apply more than 1 fl. oz. of concentrate per 1,000 sq. ft.</b>	<ul style="list-style-type: none"><li>Broadcast spray treatment</li><li>Foliar spray treatment</li><li>Spot treatment</li></ul> <p>In New York state, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.</p>

Application Site	Pest	Dilution Rate In Water	Application Method(s)
Turf—Not for use on golf course turf  <b>Treatments to turf must only be made in non-residential areas or other areas that are NOT frequented by the general public.</b>	Ants, beetles, chinch bugs, cockroaches <sup>3</sup> , crane flies, crickets, fleas, flies, mole crickets, non-biting midges, spiders, springtails, ticks, wasps	0.6 fl. oz. per gallon <b>or</b> 0.6 fl. oz. in sufficient water to cover 1,000 sq. ft.  <b>In New York state, for outdoor broadcast and foliar applications, do not apply more than 1 fl. oz. of concentrate per 1,000 sq. ft.</b>	<ul style="list-style-type: none"> <li>Broadcast spray treatment</li> </ul> <p>In New York state, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.</p> <p>Do not apply more than 0.36 lbs. lambda-cyhalothrin per acre per year or 1.1 gallons of MGK Formula 3172 per acre per year.</p>
Exterior Walls, Foundations and Structures	Ants, Asian lady beetles, boxelder bugs, cluster flies, cockroaches <sup>3</sup> , crickets, daddy-longlegs, earwigs, flies, kudzu bugs, millipedes, non-biting midges, pillbugs, psocids, sowbugs, spiders, wasps	1.0 fl. oz. to 2.0 fl. oz. per gallon <b>or</b> 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	<ul style="list-style-type: none"> <li>Crack and crevice treatment</li> <li>Spot treatment</li> <li>Structural perimeter treatment</li> <li>Surface spray treatment</li> </ul>
	Scorpions, spruce spider mites, twospotted spider mites	2.0 fl. oz. per gallon <b>or</b> 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	<ul style="list-style-type: none"> <li>Crack and crevice treatment</li> <li>Spot treatment</li> <li>Structural perimeter treatment</li> <li>Surface spray treatment</li> </ul>
For Crack and Crevice Applications: 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> Do not spray in or near fishponds or other bodies of water. <sup>2</sup> A small-scale test is recommended to verify safety to ornamentals. <sup>3</sup> For control of cockroaches, use 1 fl. oz. per gallon for standard treatments and 2 fl. oz. per gallon for severe infestations. <sup>4</sup> For outdoor use only at the 0.3% Lambda-cyhalothrin concentration or 1.5 fl. oz. of MGK Formula 3172 per 1,000 sq. ft.			

### **Specific Use Directions**

#### **Mosquitoes:**

Apply as a spray where mosquitoes may rest, harbor, or breed, contacting as many mosquitoes as possible. This includes, but is not limited to, tall grass, foliage, landscape plantings, building foundations, soil beneath decks. The ideal target area is the bottom 20 feet of trees. Pay particular attention to the underside of plant leaves and resting sites. Treatments to turf must only be made in non-residential areas or other areas that are NOT frequented by the general public.

Apply using a backpack mist blower or other mechanical or pressurized equipment including, but not limited to, backpack sprayers and power sprayers. Do not make outdoor broadcast applications when wind speed is 15mph or greater.

Recommended to use 1 fl. oz. per gallon or 1 fl. oz. in sufficient water to cover 1,000 sq. ft. for standard light infestation or low pest pressure and 2 fl. oz. per gallon or 2 fl. oz. in sufficient water to cover 1,000 sq. ft. for heavy infestation or high pest pressure.

In New York state, for outdoor broadcast and foliar applications, do not apply more than 1 fl. oz. of MGK Formula 3172 per 1,000 sq. ft.

#### **<sup>7</sup>Listed Flies:**

To control house flies and phorid flies, treat protected areas outdoors. Treat garbage cans, cracks and crevices containing organic matter, recycling bins and other sources that hold or contain organic matter.

To control fruit flies, treat surfaces around garbage cans and recycling bins.

Cluster Flies: Apply in late summer or early fall before flies are observed resting on surfaces. Apply thoroughly on siding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces. Apply enough diluted product to adequately cover the area without excessive dripping or runoff. Volume can vary depending on the surface type treated. Heavy precipitation prior to frost may require retreatments to maintain protection. In winter and spring when flies become active and are emerging, interior crack and crevice and void treatments can help reduce the infestation, along with ULV or surface application in infested attics or unoccupied lofts.

#### **Fleas & Ticks:**

To control fleas and ticks, apply to kennels, runs and other areas where pets or other animals have been present. 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 treated areas until the application has dried. DO NOT SPRAY PETS OR OTHER ANIMALS WITH THIS PRODUCT. Treat pets with a product registered for use on animals.

For best outdoor control of ticks, apply spray to vegetation, brush, branches and other areas near habitation where ticks may harbor or frequent.

#### **Ants:**

Make spot, crack and crevice and/or void applications where ants may be foraging and/or nesting, such as around doors or window frames, under sinks, around pipes, attic venting and other areas where ants may find access or nest.

**Fire Ant Control:** Treat individual mounds with a drench application using a watering can. Use 1.2 fl. oz. MGK Formula 3172 per 2.5 gallons of water. Thoroughly soak each mound and a 3 ft. diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the



mound may cause the ants to migrate and reduce the effectiveness of the treatment. For best results apply in the early morning or late evening hours. Applications can be made on a monthly basis to maintain protection of treated areas.

**<sup>6</sup>Crawling [Insects/Pests] such as Cockroaches, Crickets, Millipedes, Earwigs, Silverfish and Spiders:**

Make spot and/or crack and crevice applications into harborage areas, cracks and crevice, entry points, under refrigerators, vending machines, around pipe and along baseboards.

**Examples of Dilutions for Structural Perimeter Barrier Applications**

Application Volume: Gallons of Solution per 1,000 sq. ft.	Application Rate: Fluid Ounces of MGK Formula 3172 per 1,000 sq. ft.	Fluid Ounces of MGK Formula 3172 to Dilute in Water According to Spray Tank Volumes		
		5 gallons	10 gallons	50 gallons
1 gallon	1.0 fl. oz.	5.0 fl. oz.	10.0 fl. oz.	50.0 fl. oz.
	1.5 fl. oz.	7.5 fl. oz.	15.0 fl. oz.	75.0 fl. oz.
	2.0 fl. oz.	10.0 fl. oz.	20.0 fl. oz.	100.0 fl. oz.
2 gallon	1.0 fl. oz.	2.5 fl. oz.	5.0 fl. oz.	25.0 fl. oz.
	1.5 fl. oz.	3.75 fl. oz.	7.5 fl. oz.	37.5 fl. oz.
	2.0 fl. oz.	5.0 fl. oz.	10.0 fl. oz.	50.0 fl. oz.
5 gallon	1.0 fl. oz.	1.0 fl. oz.	2.0 fl. oz.	10.0 fl. oz.
	1.5 fl. oz.	1.5 fl. oz.	3.0 fl. oz.	15.0 fl. oz.
	2.0 fl. oz.	2.0 fl. oz.	4.0 fl. oz.	20.0 fl. oz.

**Examples of Dilutions for Spray Rigs**

Fluid ounces of MGK Formula 3172 to Dilute in Water	Gallons of Water	Square Feet of Coverage
2 fl. oz.	5 gallons	2,000 sq. ft.
4 fl. oz.	10 gallons	4,000 sq. ft.
8 fl. oz.	25 gallons	8,000 sq. ft.
16 fl. oz.	50 gallons	16,000 sq. ft.
32 fl. oz.	100 gallons	32,000 sq. ft.

**INDOOR USE**

Application Site	Pest	Dilution Rate in Water	Application Method(s)
Indoor areas in residential and commercial sites :Homes, Schools, Warehouses, Office buildings, Apartment buildings, Theaters, Hotels.	Ants, Asian lady beetles, beetles, carpet beetles, clothes moths, cockroaches, crane flies, drain flies, firebrats, fleas, flies, fruit flies, house flies, phorid flies, psocids, silverfish, spiders, stored product pests, ticks	1.0 fl. oz. to 2.0 fl. oz. per gallon <b>or</b> 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment Surface spray treatment  <b>•Do not apply to carpets and hard surfaces as a pin stream or coarse spray treatment.</b>
	Scorpions	2.0 fl. oz. per gallon <b>or</b> 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment Surface spray treatment
Food-Handling <sup>5</sup>	Ants, cockroaches, crane flies, drain flies, flies, fruit flies, house flies, phorid flies, stored product pests	1.0 fl. oz. to 2.0 fl. oz. per gallon <b>or</b> 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment Surface spray treatment

<sup>5</sup>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. Do not make space spray applications in food handling areas.

**USE IN AND AROUND LIVESTOCK AND POULTRY 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 Methods
<sup>6</sup> Listed Crawling Insects (including Darkling Beetles)	2.0 fl. oz. to 4.0 fl. oz. per gallon (or sufficient water to cover 1,000 sq. ft.)	General surface spray Crack and crevice treatments Spot or banded treatment Injected into wall voids
<sup>7</sup> Listed Flying Insects	1.0 fl. oz. to 2.0 fl. oz. per gallon (or sufficient water to treat 1,000 sq. ft.)	General surface treatment Spot treatment

**Specific Use Directions**

**<sup>7</sup>Listed Flying Insect Pests in and Around Livestock and Poultry Premises:**

For residual control of listed flying insects, treat insect resting areas such as walls, ceilings, screens, around windows, doors, gates, cages, light fixtures, under slats, known insect breeding/egg deposit areas and other surfaces that attract flying insects. Initiate treatments at the beginning of fly season and repeat treatments during periods of heavy infestation. Treatments can be made both indoors and outdoors but animals cannot be present at the time of application.



#### **<sup>6</sup>Listed Crawling Insect Pests in and Around Livestock and Poultry Premises:**

Apply as a general surface, spot treatment, and/or crack and crevice treatment. Apply to floors, 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 waterers, 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 3 feet (0.3 to 0.9 m) up the exterior foundation wall and 3 to 6 feet (0.3 to 1.8 m) out from the foundation. May also be injected into wall voids.

#### **Litter Beetle Control in Poultry Premises:**

MGK Formula 3172 controls darkling beetles (also known as lesser mealworm[s] [beetles]) in poultry housing [structures, facilities, buildings, barns]. This product can be used as a crack and crevice, broadcast, or banded/spot treatment to areas where beetle infestations frequently occur, such as walls, floors, stalls, around feeders, and support [posts] [beams] of poultry [broiler, turkey, caged egg layer, cage free egg layer, breeder, grow out houses] [structures, facilities, buildings, barns]. To reduce immigration of insects, make a perimeter treatment around the outside of building foundations. Apply in a uniform band 1 to 3 feet (0.3 to 0.9 m) up the exterior foundation wall and 3 to 6 feet (0.3 to 1.8 m) out from the foundation.

**Do not apply when birds are present** and do not expose poultry to direct spray. Exposed water [lines] and feed [troughs] [lines] must be covered or raised/removed from the area before treatment begins. Once completed, allow treated surfaces to dry completely before restocking. Do not apply as a fog or space-spray.

Apply [between flocks,] after de-caking, clean out and sanitation procedures are complete but prior to new flock placement. It may be advisable to treat houses before removing litter to prevent possible infestation of nearby residences.

#### **Application Methods for Darkling Beetle Control**

##### **Band Application:**

Darkling beetles often crowd under feeders, water lines or along perimeter walls, lying buried in the litter. [Under] [With] these circumstances, it may be sufficient [desirable] to treat the primary areas of beetle infestation within a poultry [broiler, turkey, caged egg layer, breeder] house. Beetles can also infest structures behind insulation in walls; MGK Formula 3172 can be applied as a spot treatment inside wall voids or as a crack and crevice application to target these infestations.

For band application, apply diluted product to a 3-5 foot wide swath of floor area, making sure to get under all the water and/or feed lines in the house. Continue applying a 3-5 foot swath along the inside perimeter of [all] [the side and end] walls including the entire surface of all footings and 1 to 3 feet up onto the walls support beams and wood surfaces above the [concrete] [foundation] [footings].

##### **Interior [Broadcast] [Whole House] Application:**

Whenever an infestation is severe, it may be necessary to treat the entire house by applying the diluted product as a broadcast spray. Apply MGK Formula 3172 on the entire floor, paying particular attention to areas beneath feed and water lines, as well as to the lower sections of walls up to 1 to 3 feet on wood surfaces above the foundation. It may be necessary to apply fresh bedding prior to restocking.

##### **For Best Results:**

In houses with support beams, treat around the base of each support post and 1 to 3 feet up each post. Apply diluted spray to cracks and crevices around insulation where beetles have been seen or can find harborage. To prevent movement of beetle infestations to houses and nearby residences, it may also be desirable to treat manure before it is relocated from the poultry house.

Use MGK Formula 3172 as part of an integrated pest management program to extend the efficacy of insect control products and to help minimize the build-up and carry-over of resistant insect populations. Darkling beetles have the ability to develop resistance to insecticides. When one class of chemistry is used [flock after flock, year after year, time after time], the likelihood that insects will develop resistance and become more difficult to control, greatly increases. This product contains pyrethroids, which should be used in a/an [rotational] [insecticide rotation] program with other [classes of] insecticides including neonicotinoids (Darlex<sup>®</sup> Insecticide), Insect Growth Regulators, organophosphates or spinosyns to minimize or prevent [the development of] resistance and to maintain its effectiveness in controlling darkling beetles and other listed insects.

## STORAGE AND DISPOSAL

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

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

### PESTICIDE STORAGE:

Keep this product in a tightly closed container, when not in use. Store in a cool, dry (preferably locked) area. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, feed, seed, fertilizers, and veterinary supplies. Place formulations on lower shelves and dry formulations above.

### PESTICIDE DISPOSAL:

Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

### CONTAINER HANDLING:

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

[For containers with capacities equal to or less than 5 gallons (18.9 L)]: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available for reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[For containers with capacities greater than 5 gallons (18.9 L)]: 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 closers. Tip the 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. 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.

[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/30 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. Offer for recycling if available for reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

- [Provides] [knockdown within 1 hour] [and] kill of labeled pests
- [Provides] [knockdown within 1 hour] [and] kill of labeled insects
- [Provides] [knockdown within 1 hour] [and] kill of mosquitoes
- [Provides] [knockdown within 1 hour] [and] kill of listed flying insects
- [Knockdown within 1 hour] [and] kill of mosquitoes
- [Knockdown within 1 hour] [and] kill of crane flies, drain flies, fruit flies and phorid flies
- [Knockdown within 1 hour] [and] kill of listed flying insects [and other labeled pests]
- Kills mosquitoes
- Kills crane flies, drain flies, fruit flies, house flies and phorid flies
- Kills house flies
- Kills fleas
- Kills ticks [including those that may transmit Lyme disease]
- Kills ticks [including those that transmit Rocky Mountain Spotted Fever]
- Kills ticks including those that may transmit [Lyme disease] [and] [Rocky Mountain Spotted Fever]
- Kills mosquitoes, fleas, ticks and listed flies
- Kills mosquitoes and other listed flying insects
- Kills listed flying insects
- Kills mosquitoes, listed flying insects and other labeled [pests] [insects]
- Kills [Aedes] [and] [Anopheles] [and] [Culex] mosquitoes
- Kills Aedes mosquitoes
- Kills Anopheles mosquitoes
- Kills Culex mosquitoes
- Kills Aedes aegypti mosquitoes
- Kills mosquitoes including those that may transmit [West Nile virus] [and] [Chikungunya virus] [and] [Zika virus]
- Contains Exponent® [brand synergist]
- Synergized with Exponent®
- Synergized with Piperonyl Butoxide [(PBO)]

- Contains NyGuard® IGR
  - Controlled release [technology]
  - Dual modes of action
  - Two modes of action
  - Kills Spiders
  - Kills through contact
  - Multi-purpose insect killer
  - Easy to use
  - Convenient [combo] [all-in-one] product
  - Will not harm most common ornamental plants
  - Polymeric Surfactant System – a formulation that allows convenient and stable dilution in water
  - Remains stable in solution
  - Ideal for use before outdoor [activities] [events]\*
- \*Allow time for sprays to dry before [activities] [events].
- For use on and around trees and shrubs
  - For use on and around trees, shrubs and ornamental gardens
  - For use in and around [outdoor]
  - For use in and around commercial areas
  - For use in and around [horse barns] [and] [poultry barns] [and] [livestock barns]
  - Kills listed<sup>6</sup> [insects] [and] [flies] in and around [livestock] [and] [poultry] [facilities] [and] [horse barns]
  - Kills listed<sup>7</sup> flies and mosquitoes around deer pens and poultry facilities
  - For use in and along the outside perimeter of poultry houses for control of [litter beetles] [such as] [darkling] [beetles] [and] [carrion] [beetles]
  - Kills listed flies and mosquitoes in and around livestock and poultry facilities
  - Controls adult and larvae darkling beetles
  - Kills adult and larvae darkling beetles
  - For [both] broadcast [or] [and] [spot] [banded] applications
  - Kills minute pirate bugs