


1021-2574

12/28/2011

1/12

	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460	EPA Registration No. 1021-2574	Date of Issuance: DEC 28 2011
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		Term of Issuance: Conditional Name of Pesticide Product: MGK® Formula 2964	
Name and Address of Registrant (include ZIP Code): Thomas A. Lennan, Regulatory Affairs Specialist McLaughlin Gormley King Company 8810 Tenth Avenue North Minneapolis, MN 55427-4319			
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(a) provided that you:</p> <p>(See comments on pages 2-3)</p> <p>A copy of your label stamped "Accepted with Comments" is enclosed for your records.</p>			
Signature of Approving Official: Refer to Page 3 Richard J. Gebken, Product Manager Registration Division, Insecticide Branch		Date: DEC 28 2011	

EPA Form 8570-6

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable subject to the comments listed below.

1. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 1021-2574"
- b. Revise the typographical error for the spelling of the active ingredient "Prallethrin" in the Ingredient Statement.

Also, the label percentage of "Other Ingredients" (84.0%) under the heading of the Active Ingredients must be filled in.

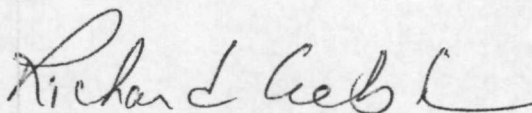
- c. Per the Agency's Acute Toxicity Review, the following statement added to the end of the First Aid Statement: "NOTE TO PHYSICIAN: Contains petroleum distillate. Vomiting may cause an aspiration pneumonia hazard."
- d. Per the Agency's Product Performance/Efficacy Review (copy attached), you must delete all the statements and claims on the label that are marked with ~~striketrough~~ text, referring to scorpions, and centipedes. Delete the efficacy claims listed as follows
 - i. Page 1: "~~Scorpions~~"
 - ii. Page 2: Insects Controlled: "~~Centipedes~~"
 - iii. Page 3: Biting and Stinging Pests: "~~Scorpions~~"
- e. The claims regarding the synergized formula with relation to specific resistance mechanisms are not supported and must be deleted from the label. General claims of 'synergized formula' or the synergized formula enhancing speed of kill were supported by the submitted data and are acceptable. The following claims on Page 1 of the label that are marked with ~~striketrough~~ text must be deleted as follows:
 - i. "~~Synergist helps combat MFO resistance~~"
 - ii. "~~Synergist aids in inhibiting mixed function oxidative resistance in insects~~"
 - iii. "~~Synergist helps inhibit metabolic resistance in insects~~"
- f. Revise the GENERAL INFORMATION section of the Directions for Use, by adding the following statement: "Do not apply as a space spray in Residential Sites"

2. Submit and/or cite all data required for registration/re-registration of your product when the Agency requires all registrants of similar products to submit data.
3. Within sixteen (16) months of the date on this Notice of Registration, provide to the Agency acceptable data packages for Guideline Studies as follows:

- a. OPPTS 830.6317, (Storage Stability) and OPPTS 830.6320 (Corrosion Characteristics). It is required that the observations be made at 0, 3, 6, 9, and 12 month intervals. The results must be submitted to the Agency in electronic and hard copy format. If acceptable data is not submitted within 16 months of this NOR, this registration will expire on April 28, 2013.

Two copies of the finished labeling must be submitted prior to releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. If you have any questions, you may contact Clayton Myers, at (703) 347-8874, or via email at myers.clayton@epa.gov.

Sincerely,



Richard Gebken
Product Manager
Insecticide Branch
Registration Division (7505P)

Enclosures
Stamped Label
Agency Acute Toxicity Review
Agency Product Chemistry Review
Agency Product Performance/Efficacy Review

4/12

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MGK®

**McLAUGHLIN
GORMLEY
KING COMPANY**

MGK® Formula 2964
(Microencapsulated Insecticide)

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

- 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
- Provides fast kill of listed insects
- 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 Cockroaches on indoor unsealed concrete or cement surfaces
- Kills Quickly [Fast]
- Fast Acting [Action]
- Fast Acting 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 & crevice, and spot treatment options
- For use in and around Livestock Housing
- Synergized for Faster Kill [Action]
- Synergized for enhanced control [kill]
- ~~Synergist helps combat MFO resistance.~~
- ~~Synergist aids in inhibiting mixed function oxidative resistance in insects~~
- ~~Synergist helps inhibit metabolic resistance in insects~~
- Synergized formula
- Contains Exponent® brand Synergist
- New (for 6 months)
- New formula (for 6 months)
- New improved MGK® Formula 2964 formula (6 months)
- New faster killing MGK® Formula 2964 (6 months)
- Now faster acting (6 months)
- Kills Ants, Spiders, ~~Scorpions~~, Fleas, and other listed insects
- Kills Asian lady beetles, Stink Bugs, Box Elder 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

ACTIVE INGREDIENTS:

Esfenvalerate	6.40%
Prallethrin	1.6%
Piperonyl butoxide	8.0%
*OTHER INGREDIENTS	
*Contains petroleum distillates	100.00%

EVERCIDE® Exponent®, MGK®, NyGuard® are registered trademarks of MGK Company

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none">▪ Call a poison control center or doctor immediately for treatment advice.▪ Do not give any liquid to the person.▪ Do not induce vomiting unless told to do so by a poison control center or a doctor.▪ Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none">▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes.▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.▪ Call a poison control center or doctor for treatment advice.
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.	

ACCEPTED
With COMMENTS
In EPA Letter Dated:
DEC 28 2011

**Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No:**

1021-2574

Net Contents _____
Manufactured by:
MGK COMPANY
8810 Tenth Avenue North

E-SUBMISSION

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear (goggles, face shield or safety glasses with side shields). Wash 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 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. Rising application equipment over the treated area will help avoid run off 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.

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.

Remove pets and birds and cover fish aquariums before spraying.

For control of insects, indoors and outdoors, in food and non-food areas such as, but not limited to: Homes, Schools, Warehouses, Office Buildings, Apartment Buildings, Theatres, 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 Backyards, Lawns, Trees, Ornamental Landscaping, Recreational Areas, Parks and Athletic Fields.

Insects Controlled:

Ants	Crickets	Pillbugs
Aphids	Dog Ticks	Psocids
Asian Lady Beetles	Earwigs	Scales
Bedbugs	Fire Ants	Silverfish
Beetles	Firebrats	Spiders
Boxelder Bugs	Fleas	Springtails
Brown Marmorated Stink Bugs	Mealy Bugs	Swarming Termites
Carpet Beetles	Midges	Ticks
Centipedes	Millipedes	Waterbug
Cockroaches	Mites	

Stored Product Pests including:

Angoumois Grain Moths	Grain Mites	Rice Weevils
Ants	Grain Moths	Rusty Grain Beetles
Cadelles	Granary Weevils	Saw-toothed Grain Beetles
Cigarette Beetles	Indian Meal Moths	Skippers
Confused Flour Beetles	Lesser Grain Borers	Spider Beetles
Dark Mealworms	Maize Weevils	Spider Mites
Dried Fruit Beetles	Meal Moth Larvae	Square-necked Grain Beetles
Drugstore Beetles	Mediterranean Flour Moths	Tobacco Moths
Flat Grain Beetles	Merchant Grain Beetles	Yellow Mealworm
Fruit Flies	Red Flour Beetles	

Flying Insects including:

Blow Flies	Face Flies	Houseflies
Chiggers	Fruit Flies	Mosquitoes
Clothes Moths	Fungus Gnats	Small Flying Moths
Crane Flies	Gnats	Whiteflies
Deer Flies	Horn Flies	

Biting and Stinging Pests:

Bedbugs	Dog Ticks	Mosquitoes
Bees	Fire Ants	Scorpions
Biting Flies	Fleas	Spiders
Chiggers	Gnats	Ticks
Deer Flies	Hornets	Wasps
Deer Ticks	Lice	Yellow Jackets

Wood-Destroying Pests including:

Carpenter Ants	Furniture Beetles	Round-headed House Borers
Carpenter Bees	Old House Borers	Swarming Termites
Deathwatch Beetles	Powder Post Beetles	

Plant Pests including:

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

GENERAL INFORMATION:

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.

MGK® FORMULA 2964 is a microencapsulated suspension concentrate containing the following pounds of active ingredient per gallon (64 mg of i.a./L): Esfenvalerate (0.54 lbs.), Prallethrin (0.135 lbs.), Piperonyl butoxide (0.675 lbs.)

MGK® FORMULA 2964 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 2964 may be sprayed on any surface that will not be stained by water. DO NOT use this product as a fogger or apply it as a space spray. Injector application equipment that delivers low volume treatments may be used to make crack and crevice injections or spot and general surface treatments. Do not apply in electrical conduits, junction and switch boxes, motor housings, or other electrical equipment due to shock hazard from water-based spray.

Use only in areas described. Remove pets and cover fish aquariums and pets' 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.

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) Including But Not Limited to: 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 2964 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 (14) days.

Spot or Crack & 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 (14) days.

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.

MIXING INSTRUCTIONS:

MGK® FORMULA 2964 should be mixed with water and applied with hand pressurized or power operated sprayers. Agitate container of MGK® FORMULA 2964 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 EVERCIDE® F-2964. 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 fluid ounces (15 cc.) of MGK® FORMULA 2964 in 1 gallon of water for light infestations or as a maintenance control rate. Use 1.0 fluid ounce (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. Avoid excessive application. Dampen surfaces but not to the point of saturation or run-off. Only dilute MGK® FORMULA 2964 with water.

The following chart indicates the percent of active ingredients that is in the sprayer tank after mixing Evercide F2964 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%

Tank Mixing:

MGK® FORMULA 2964 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 2964 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)
Crawling Insects			
Light Infestation	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft (40 ml/m ²)	Apply as a coarse, wet spray * Broadcast Surface Spray * Crack & Crevice Treatment * Spot Treatment * Injected into Wall Voids
Heavy Infestation	1.0 fl. oz. / gallon (7.93 ml/L)		
Flying Insects	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft (40 ml/m ²)	
Stinging Insects	1.0 fl. oz. / gallon (7.93 ml/L)	1 gallon / 1,000 sq. ft (40 ml/m ²)	
Ticks	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft. (40 ml/m ²)	
Fleas, Lice & Bedbugs	0.5 fl. oz. / gallon (3.97 ml/L)	1 gallon / 1,000 sq. ft. (40 ml/m ²)	Apply as noted above, with a fine particle spray.

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 all cracks and crevices. Treat underneath sinks, dishwashers, refrigerators, stoves, the underside of shelves, drawers, cabinets, areas behind pipes, and in all 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.

Flying Insect Pests Indoors:

Treat insect resting areas such as 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.

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:

Thoroughly apply as a spot treatment to infested areas such as 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, aquariums and fish bowls should be covered, and pet animals should be removed from the area being treated. Do not permit humans or pets to contact treated surfaces until spray has dried. Old pet bedding should be removed and replaced 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 Bedbugs:

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 2964 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 Stored Product Pests:

Spray thoroughly around and into floor drains, non-food conveyors, benches, pipes, pallets, moist areas, storage racks, pieces of equipment, and other areas where stored product pests may be found. Tank-mix or sequential use of an insect growth regulator,

9/12

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. Avoid applying 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 1000 square feet of surface area to be treated. Cleaning all areas prior to use will increase levels of control. Any foodstuffs infested with pests should be removed and destroyed. 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.

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, but not limited to: 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)
Crawling Insects * Including litter beetles	1 fl. oz. / gallon (7.93 ml/L)	Apply as a coarse, wet spray * General Surface Spray * Crack & Crevice Treatment
	or 1 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.32 m ² /m ²)	
Flying Insects	0.5 fl. oz. / gallon (3.97 ml/L)	* Spot Treatment * Injected into Wall Voids
	or 0.5 fl. oz. in sufficient water to cover 1,000 sq. ft. (0.16 m ² /m ²)	

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 – 3 feet (0.3 – 0.9 m) up the exterior foundation wall and 3 – 6 feet (0.3 – 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 2964 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 – 3 feet (0.3 – 0.9 m) up the exterior foundation wall and 3 – 6 feet (0.3 – 1.8 m) out from the foundation.

Flying Insect Pests in Livestock and Poultry Premises:

For residual control of flying insects, treat insect resting areas such 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:

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

Do not water the treated area to the point of run-off.

Do not make applications during the rain.

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.

Not for use on plants being grown for sale or other commercial use. Not for use in nurseries, sod farms or golf courses.

All outdoor applications must be limited to spot or crack and crevice treatment 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-crevices applications, only.

Application Rates for Outdoor Pests:

	Dilution Rate in Water	Application Method(s)
Treating Exterior Walls, Foundations and Structures	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 ²)	Apply as a coarse, wet spray
Treating nests and harborage areas of stinging insects	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 ²)	* General Surface Spray * Crack & Crevice Treatment
To Control Swarming Termites and Wood Destroying Pests.	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 ²)	* Spot Treatment
Treating Ornamental Trees and Landscapes	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 ²)	Apply as a coarse, wet spray * Broadcast Spray
Mosquito Breeding Sites	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 ²)	Treatment * Foliar Spray Treatment
Treating Lawns and Turf	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 ²) 4.3 to 43 fl. oz. per acre (127 ml to 1,271 ml/acre)	Apply as a coarse, wet spray * Broadcast Spray Treatment

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 other areas where pests are active or may be hiding.

To help prevent insect infestation of buildings: Treat a 2 – 6 foot (0.6 – 1.8 m) band of soil or other substrate adjacent to buildings. Treat building foundation to a height of 2 – 3 feet (0.6- 0.9 m). 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 run-off to occur. Alternate mixing directions are to use 2 to 4 fluid ounces of concentrate per 50 gallons of water.

Stinging Insect Control Outdoors:

For 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 Yellow Jacket control, MGK® FORMULA 2964 can be mixed with baits in traps. Follow trap instructions for preparation of bait.

11/12

For control of Fire Ants, combine broadcast application with mound drenches to control foraging workers and newly mated fly-in queens. Apply MGK® FORMULA 2964 as a broadcast application at a rate of 8 fl. oz. of concentrate per 1,000 square feet (2.54 ml/m²). Treat mounds with a registered fire ant mound treatment.

Fleas and Ticks Outdoors:

To control fleas and pet ticks, apply to kennels, runs, and other areas that pets have been present. For best outdoor control of ticks, apply spray to vegetation, brush, branches, and other 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.

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 2964 in appropriate volumes of water to obtain thorough coverage. Apply as a full-coverage foliar spray, applying to the point of drip but not runoff. Treat active soil pests with an application to surrounding soil. Repeat treatments as necessary to achieve control, using higher application 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.

Insect Control on Lawns, Turf Grass, and Turf:

For best results, lawn or turf grass should be mowed 1 – 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/m²) 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/m²), 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 – 14-day intervals.

Rate Range:

Use 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 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 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 other 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 2964 to sites where mosquitoes rest, harbor, and breed. Apply spray solution into tall grass, shrubbery, and around backyards 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.

12/12

STORAGE AND DISPOSAL

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

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).

CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container.

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.