

ONEGUARD®

Multi MoA Concentrate

Specimen Label

- Kills Aedes, Anopheles and Culex mosquitoes
- Kills mosquitoes that may transmit West Nile virus, Chikungunya virus and Zika virus
- Kills fleas, ticks and house flies
- Controlled release technology
- Contains NyGuard® IGR
- Two modes of action
- Convenient all-in-one product

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

See inside for first aid and precautionary statements.

PESTICIDE RESISTANCE MANAGEMENT:

OneGuard® Multi MoA Concentrate contains a Group 3A and Group 7A insecticide. Insect biotypes with acquired resistance to Group 3A and Group 7A may eventually dominate the insect population if Group 3A and 7A 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 OneGuard Multi MoA Concentrate or other Group 3A or 7A insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of OneGuard Multi MoA Concentrate or other Group 3A and 7A 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 this product.

USE RESTRICTIONS:

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

- 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 OneGuard Multi MoA Concentrate per 1,000 sq. ft.
- 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 make applications while it is raining.
- Do not make outdoor broadcast applications when wind speed is 15mph or greater.
- 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 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 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 applications, if permitted elsewhere on this label, must be limited to spot or crack and crevice treatments only, except for the following permitted uses:

1. Applications 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 above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed 1 inch in width;
6. 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.

- 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.

Use Restrictions Continued

Use Restrictions Continued

- 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 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, earwigs, fleas, flies (including cluster flies, crane flies, drain flies, fruit flies, house flies and phorid flies), firebrats, kudzu bugs, non-biting midges, mealybugs, millipedes, mites, mole crickets, mosquitoes, pillbugs, 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: backyards, lawns, 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, deer pens and enclosures, 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.

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
OneGuard Multi MoA Concentrate 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 OneGuard Multi MoA Concentrate 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 OneGuard Multi MoA Concentrate. 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%
Total % Concentrate of all Active Ingredients	0.091%	0.136%	0.180%

TANK MIXING:
OneGuard Multi MoA Concentrate 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 OneGuard Multi MoA Concentrate 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:
OneGuard Multi MoA Concentrate 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.

Application Site	Pest	Dilution Rate In Water	Application Method(s)
Mosquito Habitats ¹	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. 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.	<ul style="list-style-type: none">Broadcast spray treatmentFoliar spray treatmentSpot treatment
Ornamentals and Landscapes ²	Ants, aphids, beetles, boxelder bugs, carpenter bees, caterpillars, centipedes, clover mites, crane flies, flies ⁴ , mealybugs, millipedes, mites, 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. 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.	<ul style="list-style-type: none">Broadcast spray treatmentFoliar spray treatmentSpot treatment <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>
Lawns and Turf— Not for use on golf course turf	Ants, beetles, chinch bugs, cockroaches ³ , crane flies, crickets, fleas, flies, mole crickets, non-biting midges, spiders, springtails, ticks, wasps	0.6 fl. oz. per gallon or 0.6 fl. oz. in sufficient water to cover 1,000 sq. ft. 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.	<ul style="list-style-type: none">Broadcast spray treatment <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 OneGuard Multi MoA Concentrate per acre per year.</p>
Exterior Walls, Foundations and Structures	Ants, Asian lady beetles, boxelder bugs, cluster flies, cockroaches ³ , 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 or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	<ul style="list-style-type: none">Crack and crevice treatmentSpot treatmentStructural perimeter treatmentSurface spray treatment
	Scorpions, spruce spider mites, twospotted spider mites	2.0 fl. oz. per gallon or 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	<ul style="list-style-type: none">Crack and crevice treatmentSpot treatmentStructural perimeter treatmentSurface spray treatment
¹ Do not spray in or near fishponds or other bodies of water. ² A small-scale test is recommended to verify safety to ornamentals. ³ For control of cockroaches, use 1 fl. oz. per gallon for standard treatments and 2 fl. oz. per gallon for severe infestations. ⁴ For outdoor use only at the 0.3% Lambda-cyhalothrin concentration or 1.5 fl. oz. of OneGuard Multi MoA Concentrate 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, backyards and lawns. The ideal target area is the bottom 20 feet of trees. Pay particular attention to the underside of plant leaves and resting sites.

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 OneGuard Multi MoA Concentrate per 1,000 sq. ft.

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. OneGuard Multi MoA Concentrate 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.

CRAWLING 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 OneGuard Multi MoA Concentrate Per 1,000 sq. ft.	Fluid Ounces of OneGuard Multi MoA Concentrate to Dilute in Water According to Spray Tank Volumes		
		5 gallons	10 gallons	50 gallons
1 gallon	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	5.0 fl. oz. 7.5 fl. oz. 10.0 fl. oz.	10.0 fl. oz. 15.0 fl. oz. 20.0 fl. oz.	50.0 fl. oz. 75.0 fl. oz. 100.0 fl. oz.
2 gallon	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	2.5 fl. oz. 3.75 fl. oz. 5.0 fl. oz.	5.0 fl. oz. 7.5 fl. oz. 10.0 fl. oz.	25.0 fl. oz. 37.5 fl. oz. 50.0 fl. oz.
5 gallon	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	2.0 fl. oz. 3.0 fl. oz. 4.0 fl. oz.	10.0 fl. oz. 15.0 fl. oz. 20.0 fl. oz.

EXAMPLES OF DILUTIONS FOR SPRAY RIGS

Fluid ounces of OneGuard Multi MoA Concentrate 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)
Non-Food Handling	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 or 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
	Scorpions	2.0 fl. oz. per gallon or 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment Surface spray treatment
Food-Handling ⁵	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 or 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

⁵Do 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.

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.

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 filter with any N, R or P filter with NIOSH approval prefix TC-84A, or a NIOSH-approved powered air purifying respirator with HE filter with NIOSH approval number TC-21C.

In addition to the above PPE, applicators using handheld foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- A NIOSH-approved respirator with an organic vapor cartridge with a combination N, R or P filter with NIOSH approval prefix TC-84A, or
- A NIOSH-approved gas mask with a canister with NIOSH approval number prefix TC-14G, or
- A powered air purifying respirator with organic vapor cartridge and combination HE filter with NIOSH approval number prefix TC-23C.

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.

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

IF IN EYES:

- 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.
- 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.

STORAGE AND DISPOSAL

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:

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: 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 ¼ 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: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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.

ONEGUARD®
Multi MoA Concentrate

EPA Reg. No. 1021-2807
EPA Est. No. 1021-MN-2
Rev. 0319-0419

 **MGK®**

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7325 Aspen Lane North, Minneapolis, MN 55428



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Version: 1

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: OneGuard® Multi MoA Concentrate

EPA Registration Number: 1021-2807

Other means of identification

Part Code: 3126

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide.

Details of the supplier of the safety data sheet

Manufacturer Address:

McLaughlin Gormley King Company
7325 Aspen Lane North
Minneapolis, MN 55428
USA

FAX #:

(763) 544-6437

Telephone Number: (800) 645-6466, or (763) 544-0341

e-Mail Address: mgk-sds@mgk.com

Emergency telephone number

24 Hour TRANSPORTATION Emergency: CHEMTREC®: (800) 424-9300

International: (703) 527-3887

24 Hour MEDICAL Emergency: SafetyCall®: (888) 740-8712, or (952) 852-9509

Comments:

MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to
(888) 740-8712, or (952) 852-9509.

2. HAZARDS IDENTIFICATION

Classification:

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2B

Label elements

Emergency Overview

WARNING

Hazard statements

• H332 - Harmful if inhaled

- H320 - Causes eye irritation
- H302 - Harmful if swallowed

**Appearance:** Opaque , White**Physical state:** Liquid**Odor** Sweet - Solvent**Precautionary Statements - Prevention:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection/face protection

Precautionary Statements - Response:

P321 - Specific treatment (see Section 4/ First Aid).
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth

Precautionary Statements - Storage:

P404 - Store in a closed container

Precautionary Statements - Disposal:

P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Prallethrin (ETOC®)	23031-36-9	0.40
Pyriproxyfen (NYLAR®)	95737-68-1	1.30
Lambda-Cyhalothrin	91465-08-6	4.00
Piperonyl Butoxide (PBO)	51-03-6	6.00
Petroleum distillates, hydrotreated light	64742-47-8	<10 *

*The exact percentage (concentration) of composition has been withheld as a trade secret

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Aspiration pneumonia hazard: • Not applicable

Description of first aid measures

Eye contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin Contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Ingestion:	If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
Inhalation:	Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Self-protection of the First Responder:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Note to physicians:	For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

Caution: Use of water spray when fighting fire may be inefficient.

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO₂).

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. For more information, see product label.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. For more information, see product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines:

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Petroleum distillates, hydrotreated light 64742-47-8	-	-	-	TWA: 100 ppm TWA: 525 mg/m ³

Appropriate engineering controls

Engineering Controls: Safety showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: Protective gloves are recommended, but are not required.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene When using do not eat, drink or smoke. Regular cleaning of equipment, work area

Considerations: and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Liquid
Appearance:	Opaque , White
Odor	Sweet - Solvent
Odor threshold:	No information available
Color (Gardner Scale):	No information available

<u>Property:</u>	<u>Values:</u>	<u>Comment: • Method</u>
pH:	7.24	
Melting point / freezing point:	No information available	
Boiling point / boiling range:	No information available	
Flash point:	> 93.3 °C / > 200.0 °F	Tag Closed Cup

Evaporation rate:	No information available
Flammability (solid, gas):	No information available
Upper flammability limit (UEL):	No information available
Lower flammability limit (LEL):	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Specific Gravity:	1.015 @ 20.0 °C
Water solubility:	No information available
Partition coefficient; n-Octanol/ Water:	No information available
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Kinematic viscosity:	No information available
Dynamic viscosity:	163 @ 20°C, 155 @ 40°C, cPs
Refractive Index:	No information available

Other Information:

VOC Content (%):	1.13
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Miscibility/ Solubility:

Water:	Partially miscible
Alcohol:	Partially miscible
Aromatic solvents:	Partially miscible
Petroleum distillates:	Partially miscible

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Product Information

Oral LD₅₀	550 mg/kg (rat)
Dermal LD₅₀	>5,000 mg/kg (rabbit)
Inhalation LC₅₀	>2.11 mg/L, (rat; 4 hours)
Eye contact:	Moderately irritating to the eyes. Irritation cleared within 7 days. (rabbit).
Skin Contact:	Slightly irritating. (rabbit).
Skin Irritation Index:	0.5
Sensitization:	Negative. (guinea pig).
Comment:	Toxicology data was bridged from a similar formula.
Piperonyl Butoxide: Carcinogenicity/ Oncogenicity:	Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
Reproductive toxicity:	No information available.
Developmental Toxicity	No information available.
Teratogenicity:	No information available.
STOT - single exposure:	No information available.
STOT - repeated exposure:	No information available.
Chronic toxicity:	Prolonged or repeated exposure increases the risk. Possible risk of irreversible effects. Avoid repeated exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical name	Partition coefficient; n-Octanol/ Water:
Prallethrin (ETOC®) 23031-36-9	4.49

Other adverse effects: No information available

Environmental hazards (EPA):

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 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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

Contaminated packaging: For more information, see product label.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name: Insecticides, Insect or Animal Repellent, Liquid
Hazard Class: This material is not hazardous.

Air (IATA/ ICAO)

Proper Shipping Name: Insecticides, Insect or Animal Repellent, Liquid
Hazard Class: This material is not hazardous.

Vessel (IMO/ IMDG)

UN/ID Number: UN3082
Proper Shipping Name: Environmentally hazardous substance, Liquid, n.o.s.(Prallethrin, Pyriproxyfen, Lambda-Cyhalothrin, Piperonyl Butoxide)
Hazard Class: 9
Packing Group: III
Marine Pollutant: Yes

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Piperonyl Butoxide (PBO) - 51-03-6	1.0

SARA 311/312 Hazard**Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations:**California Proposition 65:**

This product does not contain any intentionally added Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number: 1021-2807

Difference between SDS and EPA (FIFRA) Pesticide label:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: **CAUTION**

Precautionary Statements:

- Harmful if swallowed
- Causes moderate eye irritation

International Inventories:

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection
				X

Chronic Hazard Star Legend * = Chronic Health Hazard

Issue Date: 30-Apr-2020	Revision Date: 30-Apr-2020	Revision Note:
		- SDS sections updated
		- 2
		- 4
		- 5
		- 9
		- 14
		- 15
		- 16

SDS Prepared By:
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Disclaimer:

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any

manner inconsistent with its labeling.

End of Safety Data Sheet