

# Onslaught®

MICROENCAPSULATED INSECTICIDE

Specimen Label

- Kills for up to 12 months (1 year)
- Kills German cockroaches for up to 12 months (1 year) on indoor, unsealed concrete and/or cement surfaces only

KEEP OUT OF REACH OF CHILDREN

## CAUTION

See inside for first aid and precautionary statements.

### 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.

#### ACTIVE INGREDIENT:

(S)-cyano (3-phenoxyphenyl) methyl-(S)-4-chloro-alpha-(1-methylethyl) benzeneacetate .....	6.40%
OTHER INGREDIENTS* .....	93.60%
	100.00%

\*Contains petroleum distillates

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  
Aphids  
Asian Lady Beetles  
Bed Bugs  
Beetles  
Boxelder Bugs  
Carpet Beetles  
Centipedes  
Cockroaches  
Crickets  
Dog Ticks  
Earwigs  
Fire Ants  
Firebrats  
Fleas  
Mealy Bugs  
Midges  
Millipedes  
Mites  
Pillbugs  
Psocids  
Scales  
Silverfish  
Spiders  
Springtails  
Swarming Termites  
Ticks  
Wasps  
Waterbugs

#### FLYING INSECTS INCLUDING:

Blow Flies  
Chiggers  
Clothes Moths  
Crane Flies  
Deer Flies

Face Flies

Fruit Flies  
Fungus Gnats  
Gnats

Horn Flies

Houseflies

Mosquitoes

Small Flying Moths

Whiteflies

#### BITING AND STINGING PESTS:

Bed Bugs

Bees

Biting Flies

Chiggers

Deer Flies

Deer Ticks

Dog Ticks

Fire Ants

Fleas

Gnats

Hornets

Lice

Mosquitoes

Scorpions

Spiders

Ticks

Wasps

Yellow Jackets

#### STORED PRODUCT PESTS INCLUDING:

Angoumois Grain Moths  
Ants  
Cadelles  
Cigarette Beetles  
Cockroaches  
Confused Flour Beetles

Dark Mealworms

Dried Fruit Beetles

Drug Store Beetles

Flat Grain Beetles

Fruit Flies

Grain Mites

Grain Moths

Granary Weevils

Indian Meal Moths

Lesser Grain Borers

Maize Weevils

Meal Moth Larvae

Mediterranean Flour Moths

Merchant Grain Beetles

Red Flour Beetles

Rice Weevils

Rusty Grain Beetles

Saw-toothed Grain Beetles

Skippers

Spider Beetles

Spider Mites

Square-necked Grain Beetles

Tobacco Moths

Yellow Mealworms

#### LIVESTOCK PREMISE PESTS INCLUDING:

Bed Bugs

Carion Beetles

Chiggers

Darkling Beetles (lesser meal worm)

Deer Flies

Face Flies

Fleas

Flies

Hide Beetles

Horn Flies

Horse Flies

Lice

Litter Beetles

Mites

Mosquitoes

Stable Flies

#### WOOD DESTROYING PESTS INCLUDING:

Carpenter Ants

Carpenter Bees

Deathwatch Beetles

Furniture Beetles

Old House Borers

Powder Post Beetles

Round-headed House Borers

Swarming Termites

#### PLANT PESTS INCLUDING:

Alfalfa Caterpillars

American Plum Borers

Annual Bluegrass Weevils

Aphids

Apple Maggots

Armyworms

Artichoke Plume Moths

Bagworms

Balsam Woolly Adelgids

Beet Armyworms

Billbugs

Blueberry Spanworms

Cherry Fruit Flies

Cherry Fruitworms

Chinch Bugs

Codling Moths

Cowpea Curculios

Cranberry Fruitworms

Cranberry Weevils

Cucumber Beetles

Cutworms

Diamondback Moths

Elm Leaf Beetles

European Pine Sawflies

Fall Webworms

Filbert Worms

Flea Beetles

Grasshoppers

Green Cloverworms

Green Fruit Worms

Gypsy Moth Caterpillars

Hickory Shuckworms

Imported Cabbageworms

Japanese Beetles

Lace Bugs

Leaf Feeding Caterpillars

Leaf Miners

Leaf Rollers

Leaf Tiers

Leafhoppers

Lesser Appleworms

Lesser Peach Tree Borers

Loopers

Lygus Bugs

Mexican Bean Beetles

Mites

Mole Crickets

Naval Orangeworms

Northern Pine Weevils

Oriental Fruit Moths

Painted Lady Caterpillars

Pea Weevils

Peach Tree Borers

Peach Twig Borers

Pear Psyllid

Pear Slugs

Pecan Leaf Phylloxera

Pecan Nut Casebearers

Pecan Spittlebugs

Pecan Stem Phylloxera

Pecan Weevils

Pepper Weevils

Periodical Cicadas

Pickleworms

Pillbugs

Pine Chafers

Pine Coreid Bugs

Plant Bugs

Plum Curculios

Red Pine Sawflies

Red-striped Fireworms

Redheaded Pine Sawflies

Rindworms

Salt Marsh Caterpillars

Sap Beetles

Scales

Sod Webworms

Sowbugs

Spiders

Spittlebugs

Stink Bugs

Tarnished Plant Bugs

Tent Caterpillars

Thrips

Tobacco Hornworms

Tufted Apple Budmoths

Velvet Bean Caterpillars

Walnut Husk Flies

Western Bean Cutworms

Whiteflies

### 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.

Onslaught® Microencapsulated Insecticide is a microencapsulated suspension concentrate containing 0.54 pounds active ingredient per gallon.

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

In the home, cover exposed food and do not allow spray to contact food/feed surfaces. If spray does contact these surfaces, clean surfaces with soap and water.

### MIXING INSTRUCTIONS

Onslaught® Microencapsulated Insecticide should be mixed with water and applied with hand pressurized or power operated sprayers. Shake container of Onslaught® Microencapsulated Insecticide before diluting. Clean spray equipment before use. For dilution, add approximately half the required water to spray tank and then add the appropriate amount of Onslaught® Microencapsulated Insecticide. 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 Onslaught® Microencapsulated Insecticide in 1 gallon of water to make a spray mix containing 0.025% active ingredient. Use 1.0 fluid ounce (30 cc.) per gallon of water to make a spray containing 0.05% active ingredient. Use 0.025% solution for light infestations or as a maintenance control rate. Use 0.05% 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 Onslaught® Microencapsulated Insecticide with water.

### Formula for determining the active ingredient content of the finished spray mixture:

The following formula may be used to determine the percent active ingredient that is in the sprayer tank after mixing Onslaught® Microencapsulated Insecticide:

$$\frac{(6.4) \times (\text{number of fl. oz. of concentrate added to tank})}{(\text{Gallons of finished spray mix}) \times (128)} = \% \text{ active ingredient of spray mix}$$

### Tank mixing:

Onslaught® Microencapsulated Insecticide 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 Onslaught® Microencapsulated Insecticide with products containing dichlorvos (DDVP).

### INDOOR USE

#### Application rates for indoor structural pests:

Pests	Light Infestation		Heavy Infestation		Application Rate of Mixed Solution
	% Active Ingredient	Dilution Rate in Water	% Active Ingredient	Dilution Rate in Water	
Crawling Insects	0.025%	0.5 fl. oz./gallon	0.050%	1.0 fl. oz./gallon	1 gallon/1,000 sq. ft.
Flying Insects					
Application Methods	Apply as a broadcast surface spray, crack & crevice treatment, spot treatment, or injection into wall voids.				

#### 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 Bed Bugs:

Thoroughly clean and sanitize mattresses and box springs. Treat mattresses and box springs with an approved pesticide, such as a pyrethrin aerosol. Apply Onslaught® Microencapsulated Insecticide as a spot treatment to potential harborage sites and migration paths, and cracks and crevices, around baseboards, floorboards, head-boards, 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, 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:**

Pest management professionals and grain producers may use this concentrate to treat grain storage facilities, and other listed areas, for stored product pest control. For control of exposed adult and immature stages of stored product pests, apply to cracks, crevices, and other surfaces where the pests have been seen or have harborage. Treat areas where products are stored before filling with the product. Apply at the rates listed above, using one gallon of spray mix per 1,000 square feet of surface area to be treated. Cleaning all areas prior to use will increase levels of control. 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 and hutches, dairy barns and 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.

**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

Pests	Light Infestation		Heavy Infestation	
	% Active Ingredient	Dilution Rate in Water	% Active Ingredient	Dilution Rate in Water
Crawling Insects * Including Litter Beetles	0.025%	0.5 fl. oz./gallon or sufficient water to cover 1,000 sq. ft.	0.050%	1.0 fl. oz./gallon or sufficient water to cover 1,000 sq. ft.
Flying Insects				
<b>Application Methods</b>	Apply as a general surface spray, crack & crevice treatment, spot treatment, or injection into wall voids.			

band 1 to 3 feet up the exterior foundation wall and 3 to 6 feet out from the foundation.

**Litter Beetle control in livestock and poultry premises:**

To control Litter Beetles (darkling, hide, and carrion beetles), apply Onslaught® Microencapsulated Insecticide to walls and floors at cleanout and before reintroduction of animals. Treat areas where beetles frequently occur, such as walls, supports, cages, cage framing, stalls, and around feeders. To reduce immigration of insects, make a perimeter treatment around the outside of building foundations. Apply in a uniform band 1 to 3 feet up the exterior foundation wall and 3 to 6 feet 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.

**OUTDOOR USE**

Do not spray in or near fish ponds or other bodies of water.  
Do not water the treated area to the point of runoff.  
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**

	Concentration of active ingredient	Dilution rate in water	Application method(s)
Treating exterior walls, foundations and structures	0.025% to 0.050%	0.5 to 1.0 fl. oz./gallon or 0.5 to 1.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Apply as a coarse, wet spray • General surface spray • Crack and crevice treatment
Treating nests and harborage areas of stinging insects	0.050%	1.0 fl. oz./gallon or 1.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	• Spot treatment
To control Swarming Termites and wood destroying pests	0.050%	1.0 fl. oz./gallon or 1.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	
Treating ornamental trees and landscapes	0.005% to 0.050%	0.1 to 1.0 fl. oz./gallon or 0.1 to 1.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Apply as a coarse, wet spray • Broadcast spray treatment • Foliar spray treatment
Mosquito breeding sites	0.025%	0.5 fl. oz./gallon or 0.5 fl. oz. in sufficient water to cover 1,000 sq. ft.	
Treating lawns and turf	0.005% to 0.050%	0.1 to 1.0 fl. oz./gallon or 0.1 to 1.0 fl. oz. in sufficient water to cover 1,000 sq. ft. or 4.3 to 43 fl. oz. per 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, garages, fence lines, and other areas where pests are active or may be hiding.

To help prevent insect infestation of buildings: Treat a 2 to 6 foot band of soil or other substrate adjacent to buildings. Treat building foundation to a height of 2 to 3 feet. Treat exterior walls, 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, Onslaught® Microencapsulated Insecticide can be mixed with baits in traps. Follow trap instructions for preparation of bait.

For control of Fire Ants, combine broadcast application with mound drenches to control foraging workers and newly mated fly-in queens. Apply Onslaught® Microencapsulated Insecticide as a broadcast application at a rate of 8 fl. oz. per 1,000 square feet. Treat mounds with a registered fire ant mound treatment.

### **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 Onslaught® Microencapsulated Insecticide 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 to 2 days before spraying. Treat with spraying equipment or a hand sprayer. Use application volumes of up to 10 gallons per 1,000 square feet 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, immediate irrigation with at least 0.25 inches of water is recommended to improve effectiveness on sub-surface pests. When hand spraying, spray using a slow, even sweeping motion, making sure to cover the entire lawn or turf grass area where pests are observed. Spray under ornamentals and trees. Repeat treatments may be necessary at 7 to 14 day intervals.

### **Rate range:**

Use 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. 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 Onslaught® Microencapsulated Insecticide 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.

### **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 materials in the containers 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 governments or by industry).

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container.

For containers equal to or less than 5 gallons: Triple rinse container (or equivalent) promptly after emptying.

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. 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. PRECAUTIONARY STATEMENTS

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

## **CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, 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, or using tobacco. Remove and wash contaminated clothing before reuse.

### **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. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage system. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirement of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### **PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

## **FIRST AID**

### **IF SWALLOWED:**

- 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:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

### **IF ON SKIN OR CLOTHING:**

- 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.

### **NOTE TO PHYSICIAN:**

Contains petroleum distillate—vomiting may cause aspiration pneumonia.

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.

**Onslaught**  
MICROENCAPSULATED INSECTICIDE

EPA Reg. No. 1021-1815  
EPA Est. No. 1021-MN-2  
0911-1211

 **MGK**

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2.5M-1111

# MATERIAL SAFETY DATA SHEET



**Date Issued:** 03/26/2012  
**MSDS No:** ONSLAUGHT-FastCap  
**Date-Revised:** 03/26/2012  
**Revision No:** 1

## Onslaught® FastCap Spider & Scorpion Insecticide.

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Onslaught® FastCap Spider & Scorpion Insecticide.

**PRODUCT DESCRIPTION:** A Microencapsulated Insecticide for Killing Spiders, Scorpions, and other Listed Insects.

**PRODUCT CODE:** 002964, EPA REG. NO. : 1021-2574

**ACTIVE INGREDIENT(S):** Esfenvalerate; Prallethrin (ETOC®); Piperonyl Butoxide

#### MANUFACTURER

McLaughlin Gormley King Company  
 8810 10th Avenue North  
 Minneapolis, MN 55427

**Emergency Contact:** SafetyCall@

**Emergency Phone:** 1(888) 740-8712

**Alternate Emergency Phone:** 1(952) 852-9509

**Service Number:** 1(800) 645-6466

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

##### FOR TRANSPORTATION:

**CHEMTREC® U.S. and CANADA:** 1(800) 424-9300

**CHEMTREC® All Other Areas:** 1(703) 527-3887

**COMMENTS:** MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to 1-888-740-8712.

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** CAUTION. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing.

Contains petroleum distillates - Vomiting may cause aspiration pneumonia.

Wear OSHA-approved safety glasses with side-shields, safety goggles, or a full-face shield.

DO NOT apply this product in or on electrical equipment due to the possibility of shock hazard.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Causes moderate eye irritation.

**SKIN:** Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth).

**SKIN ABSORPTION:** No short-term harmful effects expected.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Excessive inhalation may be irritating to the respiratory tract.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**CHRONIC EFFECTS:** None known.

**COMMENTS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

# MATERIAL SAFETY DATA SHEET



Date Issued: 03/26/2012  
 MSDS No: ONSLAUGHT-FastCap  
 Date-Revised: 03/26/2012  
 Revision No: 1

## Onslaught® FastCap Spider & Scorpion Insecticide.

Chemical Name	Wt.%	CAS	EINECS
Esfenvalerate	6.4	66230-04-4	Not Avail.
Prallethrin (ETOC®)	1.6	23031-36-9	245-387-9
Piperonyl Butoxide	8	51-03-6	200-076-7
Petroleum Distillates	< 2	64742 -47-8	265-149-8

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

### 4. FIRST AID MEASURES

**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 eye. Call a poison control center or doctor for treatment advice.

**SKIN:** 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. 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. 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.

**NOTES TO PHYSICIAN:** Contains Pyrethroids and Petroleum Distillates - vomiting may pose an aspiration pneumonia hazard. Diazepam has been recommended to reduce the CNS effects of Esfenvalerate.

For skin effects, a highly efficient therapeutic agent for Pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E).

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** > 93.3°C (200°F) TAG Closed Cup

**FLAMMABLE CLASS:** This product is NOT classified as flammable or combustible by OSHA.

**EXTINGUISHING MEDIA:** Use water spray, foam, carbon dioxide or dry chemical.

**HAZARDOUS COMBUSTION PRODUCTS:** This product is classified as Non-Combustible, however in the extreme temperatures that fires may produce, some of the constituents of this formula may combust to give off such gases as carbon dioxide, carbon monoxide, nitrogen oxides, and HYDROGEN CYANIDE GAS.

**FIRE FIGHTING PROCEDURES:** Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent such as sand, or vermiculite. Clean spill area of residues and absorbent.

**LARGE SPILL:** Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent.

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### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Contains pyrethroids which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and federal/national regulations.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** DO NOT APPLY THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD.

**HANDLING:** Wear OSHA-approved safety glasses with side-shields, safety goggles, or a full-face shield. DO NOT allow product to exceed 160°F (71.1°C) as HYDROGEN CYANIDE GAS may be produced. Mechanical ventilation should be used when handling this product in enclosed spaces. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the product label.

**STORAGE:** Store in a cool, dry area under lock and key. Post as a pesticide storage area. DO NOT allow product to exceed 160°F (71.1°C) as HYDROGEN CYANIDE GAS may be produced. 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.

KEEP OUT OF REACH OF CHILDREN

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Esfenvalerate	TWA	None		None		[1]	2 [1]
Prallethrin (ETOC®)	TWA	None		None		None	
Piperonyl Butoxide	TWA	None		None		None	
Petroleum Distillates	TWA	[2]	5 [2]	[2]	5 [2]	100	525
	STEL				10		

**OSHA TABLE COMMENTS:**

- Skin
- As oil-mist, if generated.

**ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear OSHA-approved safety glasses with side-shields, safety goggles, or a full-face shield.

**SKIN:** Take prudent precautions to avoid contact with skin and clothing.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the

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toilet.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Very slight sweet-odor.

**APPEARANCE:** Creamy, yellow/ light-brown color.

**pH:** 6.9

**Notes:** @ 5% in water.

**VAPOR DENSITY:** Heavier than air.

**FREEZING POINT:** Not Available

**FLASHPOINT AND METHOD:** > 93.3°C (200°F) TAG Closed Cup

**SOLUBILITY IN WATER:** Immiscible in water.

**SPECIFIC GRAVITY:** 1.011 (Water = 1) at 20 °C (68 °F)

**VISCOSITY #1:** 1446 CPS at 21.3°C (70.3°F) Brookfield

**(VOC):** < 2.000 %

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** HYDROGEN CYANIDE GAS may be formed by thermal decomposition at 160 °F (71.1 °C) or higher, or by contact with alkaline substances such as soda ash & lye.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**DERMAL LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rabbit.

**ORAL LD<sub>50</sub>:** 1750 mg/kg

**Notes:** Albino rat.

**INHALATION LC<sub>50</sub>:** The Acute Inhalation LC<sub>50</sub> of this material places it in EPA Toxic Category IV.

**EYE EFFECTS:** Irritation clearing within 72 hours.

**SKIN EFFECTS:** Moderate irritation at 72 hours. Produced a primary skin Irritation Index of 2.4

**SENSITIZATION:** Negative; Not considered to be a dermal sensitizer to albino guinea pigs.

**COMMENTS:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

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



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anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** 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. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency (EPA).

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** To avoid wastes, use all materials in the containers by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (NOTE: such programs are often run by state or local governments, or by industry).

**EMPTY CONTAINER:** Non-refillable container. DO NOT reuse or refill this container.

Triple-rinse container (or equivalent) promptly after emptying.

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 re-cap. 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. Then, offer for recycling if available, or puncture and dispose of container in a sanitary landfill, or by incineration. Do not burn unless allowed by state and local ordinances.

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

#### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not Available

### 15. REGULATORY INFORMATION

#### UNITED STATES

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

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**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

### 313 REPORTABLE INGREDIENTS:

COMPONENT, CAS#, Max %

Esfenvalerate, 066230-04-4, 6.40

### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

### REGULATIONS

#### STATE REGULATIONS:

#### VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 2% VOC's.

## 16. OTHER INFORMATION

**REVISION SUMMARY:** This MSDS replaces the 03/26/2012 MSDS. Revised: **Section 1:** .

### HMIS RATING

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	

**HMIS RATINGS NOTES:** We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 7 and 8 of this MSDS.

**COMMENTS:** The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

MSDS Prepared by T. Azzvitto