

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

NOTICE	\cap E	PESTICIDE	

X Registration
 Reregistration

EPA Reg. Number:

279-3349

Date of Issuance:

APF

8 2009

Term of Issuance: Conditional

Name of Pesticide Product: F6578 EW Insecticide

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code): FMC Corporation 1735 Market Street Philadelphia, PA 19103

Note: Changes in labelling differing in substance from that recepted 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 BBA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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.

This product is **conditionally** registered in accordance with FIFRA sec. 3(c)(7)(A), provided that you:

1. You will submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

Signature of Approving Official:

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Date: A pul 8, 2009

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- 2. You must generate studies corresponding to guidelines 830.6317 (one year storage stability) and 830.6320 (corrosion characteristics). The observations must be made at 0, 6, 9, and 12 months intervals. The results must be submitted to the Agency along with an electronic copy.
- 3. You agree that the current synthetic pyrethroid mitigation measures are interim in nature and may be reconsidered or modified after review and evaluation of the Spray drift Task Force data.
- 4. FMC understands that it is the US EPA intent to complete the reviews of all relevant data and other information that are available to the agency, and to make FIFRA 3(c)(5) or other appropriate regulatory decisions for cotton- use synthetic pyrethroids and other crops conditionally registered based on the Agency's review of such data/information and considering statutory and regulatory criteria for such decisions.
- 5. You will make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read "EPA Registration Number 279-3349.".
 - b. Under the Hazards to Humans and Domestic Animals section add "Wear long- sleeved shirt and long pants, socks, shoes and gloves.". Also add "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.".
 - c. You may delete the "If Swallowed" precautions since this study is classified as category IV.
 - d. Delete "Kills carpenter ants and other listed {ant} species {on contact}". Kills claims for Harvester Ants, Pharaoh's Ants and foraging fire ants are not acceptable without species specific data. Claims for other listed ant species are acceptable, but the on contact claim is unacceptable, because 30 second knockdown was not demonstrated. Delete contact claim.
 - e. Delete "Kills carpenter ants and 14 other ant species {on contact}". Kills claims for Harvester Ants, Pharaoh's Ants and foraging fire ants are not acceptable without species specific data. Claims for other listed ant species are acceptable, but the on contact claim is unacceptable, because 30 second knockdown was not demonstrated. Delete contact claim.
 - f. Change "Keeps Killing Ants {for} up to [3] [6] [9] months {outdoors} " to Keeps Killing Ants {for} up to [3] months {outdoors} " Only a 3 month claim is acceptable, based on submitted Argentine Ant residual data.
 - g. Change "Provides up to [3] [6] 9 months ant control
 {outdoors}" to "Provides up to [3] months ant control
 {outdoors}" . Only a 3 month claim is acceptable based on
 submitted Argentine Ant residual data.

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- h. Delete "Prevents Ants from entering the [your] House [home]". Spraying ants in the yard won't prevent other ants from entering the home.
- i. Delete "Creates protective barrier to prevent future ant [insect] infestations". The 'barrier' claim is unacceptable. It can be replaced with "perimeter, border, or residual treatment".
- j. Delete "Protects your home from invading insects [ants] for up to [3] [6] 9 months". Spraying ants in the yard won't prevent other ants from entering the home.
- k. Delete "Forms a protective barrier around {the foundation of} your home". The 'barrier' claim is unacceptable.
- Delete "Provides [creates] a ring [barrier] [shield] of protection around {the foundation of} your home".
- m. Delete 'Kills on contact" and "Kills in minutes". The data did not support this claim.
- n. Delete "Kills hidden insects". The studies did not assess insects in harborage—efficacy is only against exposed stages of insects.
- o. Change "Kills home invading insects [pests] [ants] {and keeps them out}" to Kills home invading insects [pests] [ants]". Keeps them out is not acceptable as written because it implies repellence.
- p. Delete "F6578 EW {RTU} is a convenient {ready to use}{liquid} spray that protects your home from invading insects—kills ants on contact and {forms a liquid barrier that} keeps killing {ants outside} for up to [3] [6] [9] months {and out of your home}."
- q. Change "Kills: Ants (15 most common species): Acrobat Ants, Argentine Ants, Bigheaded Ants, Carpenter Ants, Cornfield Ants, Crazy Ants, Field Ants, Fire Ants, Ghost Ants, Harvester Ants, False honey ants, Little Black Ants, Odorous House Ants, Pavement Ants, Pyramid Ants, Thief Ants, and Velvety Tree Ants, Common Crawling Pests: [beetles], centipedes], [cockroaches], [crickets], [firebrats], [fleas], [flies], [pantry pests], [silverfish], [sowbugs], [spiders], [ticks], {Flying insects: [flies], [bees], [wasps], [and yellow jackets]}, {Wood damaging insects: carpenter ant, carpenter bees, and termites}.". Harvester Ants, Centipedes, fleas, and ticks claims are unacceptable and must be removed because no data was provided or cited. The wood damaging insect claim must be qualified by claiming of 'kills exposed stages,' and there must be notation that this product is not a substitute for structural protection/perimeter termite applications.
- r. Modify "{Flying insects}" to "{Flying insects} as listed"
 wherever it appears on the label.

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- s. Delete Centipedes, Ticks, biting flies claims from "Kills: Ants and Ticks, gypsy moth, bagworm, budworm and leafroller, armyworms, cutworms, fall webworm, sod webworm, tent caterpillar, leafminer, millipedes, centipedes, spiders, scorpions, springtails, silverfish, firebrats, grasshoppers, crickets, mole crickets, earwigs, cockroaches, chinch bug, boxelder bug, plant bug, lace bug, leafhoppers, spittlebugs, psyllids, whitefly, aphids, cicadas, scales, mealybug, adelgids, treehoppers, thrips, weevils, billbugs, ground beetles, Japanese beetle, pillbug, sowbug, black turf ataenius, bark beetle, pine shoot beetle, borers, elm leaf beetle, wasps and yellow jackets, bees, carpenter bees, flies, including biting and house flies, list of ants.".
- t. Delete all 'barrier' claims.
- u. Change "To kill boxelder bugs, centipedes, earwigs, elm leaf beetles, ground beetles, millipedes, pillbugs, sowbugs, and spiders indoors" to "To kill boxelder bugs, earwigs, elm leaf beetles, ground beetles, millipedes, pillbugs, sowbugs, and spiders indoors". Centipede claims are unacceptable as no data was provided or cited.
- v. Under Lawns "To kill ants, fire ants, beetles, chinch bugs, chiggers, fleas (including cat fleas), ticks (including dog and deer ticks), mole crickets, sod webworms, weevils, and other pests in lawns" to "To kill ants, fire ants, beetles, chinch bugs, mole crickets, sod webworms, weevils, and other pests in lawns". Chiggers, fleas (including cat fleas), ticks (including dog and deer ticks) claims are unacceptable as no data was provided or cited.
- w. Under Lawns change "Ant mound treatments: acrobat ants, Argentine ants, bigheaded ants, carpenter ants, cornfield ants, crazy ants, field ants, fire ants (imported and native) ghost ants, odorous house ants, pavement ants, thief ants" to "Ant mound treatments: acrobat ants, Argentine ants, bigheaded ants, carpenter ants, cornfield ants, crazy ants, field ants, fire ants (imported and native) ghost ants, harvester ants, odorous house ants, pavement ants, thief ants" Claims for Harvester Ants are unacceptable.
- x. Under Pests Controlled Long List,: Claims for Harvester Ants, Pharaoh Ants, biting flies, horse and deer flies, mites, ticks, and centipedes are unacceptable, as data was not provided or cited. Other claims are acceptable.
- y. Residual ant activity is acceptable on grassy soil surfaces, but not on concrete. Delete all references to concrete.
- z. Residual activity is only acceptable through 84 days, not 100 days as stated in the study. Efficacy at day 100 was only 76%. Thus, all ant residual claims must be limited to 84 days (12 weeks or 3 months), and these claims are valid for lawns only, not for concrete.

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aa. Residual control of Argentine Ants on ceramic was only demonstrated for 8 months post-treatment, not 9 months. Please revise.

ACUTE TOXICITY REVIEW

STUDY	MRID	CATEGORY	CLASSIFICATION
Acute Oral	47385702	IV .	Acceptable
Acute Dermal	47385703	IV	Acceptable
Acute Inhalation	47385704	IV	Acceptable
Eye Irritation	47385706	IV	Acceptable
Dermal Irritation	47385705	IV	Acceptable
Dermal Sensitization	47626701	Negative	Acceptable

A copy of the reviews are enclosed for your records.

6. Please submit two (2) copies of your final printed labeling before releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact Linda A. DeLuise of my team at (703) 305-5428.

F6578 EW Insecticide

For Residential Indoor and Outdoor Uses, including Lawns, Home Perimeter, **Ornamental & Flower Gardens.**

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EPA Est. 279-

Active Ingredient: By Wt. Other Ingredients: 99.96% 100.0%

(* F6578 EW contains 0.003 pounds active ingredient per gallon.) * Cis/trans ratio: Max. 75% (±) cis and min. 25% (±) trans

U.S. Patent Pending



KEEP OUT OF REACH OF CHILDREN

FIRST AID		
If swallowed	Call 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 do so by the poison control center or 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 5 minutes, then continue rinsing eye.	
	Call a poison control center or doctor for treatment advice.	
HOTI INF N	IMBER	

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-(800)-331-3148 for Emergency Assistance.

NOTE TO PHYSICIAN

Skin contact (vapor or powder) may be followed by transient tingling or numbness, usually of the face, but this subsides without treatment. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive

For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362)



FMC Corporation 1735 Market Street Agricultural Products Group Philadelphia PA 19103

PRECAUTIONARY STATEMENTS

ENVIRONMENTAL HAZARDS

- This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp.
- Do not apply near water, storm drains or drainage ditches
- Do not apply when windy or when heavy rainfall is expected.
- Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.
- This product is highly toxic to bees. Do not apply this product to or allow to drift to blooming plants if bees are in the area.

Optional Marketing Claims

[alternate language] {optional language}

Marketing Statements

Ready to Use

New and Improved Formula (six month claim)

{Patented} Comfort Grip™ Battery Operated [Powered] Sprayer

Batteries Included

Convenient Ready to use liquid spray

Simply point & spray

{No Measuring} No Mixing, No Pumping. {And Best of all} No {More} Hand Fatigue.

Re-usable Sprayer

Refillable Container

Refill Concentrate Included – Makes 1 gallon Ready-to-Use Solution.

Kills Ants Outside, So They Can't Come Inside!

Kills Carpenter Ants and other listed {ant} species {On Contact!}

Kills Carpenter Ants and 14 other ant species (On Contact!)

Keeps Killing Ants (for) up to [3][6] 9 months (outdoors)

Provides up to [3] [6] 9 months Ant Control (outdoors)

Prevents Ants From Entering the [your] House [home]

Creates Protective Barrier to Prevent Future Ant [Insect] Infestations

Protects your home from invading insects [ants] {for up to [3] [6] 9 months}

Forms a protective barrier around {the foundation of} your home

Provides [creates] a ring [barrier] [shield] of protection around {the foundation of} your home

Kills Fast

Kills on Contact

Kills in Minutes

Kills Hidden Insects

Kills Home Invading Insects [pests] [ants] {and keeps them out}

Water Resistant Formula Will Not Wash Away

Rain Fast [proof] Formula

Rain Proof Protection

Advanced Killing Action

Next Generation Insecticide

Non-Staining

Odor Free

Treats up to 1,000 linear feet

Treats the [an] average home [3][4][5] 6 [x] times

[When Packaged Accordingly:]

Prepare Comfort Grip™ Battery Operated [Powered] Sprayer

- 1. Remove sprayer from holster and remove battery tab
- 2. Remove red plug and pull cord out all the way
- 3. Remove tab from flip top of cap
- 4. Open and insert red plug into cap opening
- 5. Turn sprayer nozzle to desired spray pattern and follow directions for use. March 20, 2008 (ver. 01/03/2008)

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- 1. Push release button on sprayer and open battery compartment door.
- 2. Promptly remove used batteries and replace with two new AA batteries
- 3. Insert new batteries following the "+" and "-" markings according to the polarity directions shown inside.
- 4. Do not recharge, heat or dispose of batteries in fire.
- 5. Keep batteries out of reach of children.

Always follow manufacturer's recommendations for use and disposal of batteries. Remove batteries from sprayer before storing or when not using for extended periods of time.}

[Conventional Pump Trigger Sprayer:]

General Information: [Turn sprayer nozzle to "on" position [desired spray pattern].] Squeeze trigger to spray until surface is slightly moist but not to the point of runoff. Over application may cause damage. Test in an inconspicuous area before applying.

Side Panel Instructions:

F6578 EW {RTU}is a convenient {ready to use}{liquid} spray that protects your home from invading insects — kills ants on contact and {forms a liquid barrier that} keeps killing {ants outside} for up to [3] [6] [9] months {and out of your home}

Plus it's incredibly easy to apply thanks to its patented comfort grip battery operated [powered] sprayer. Simply point and spray — NO Mixing, NO Pumping and Best of All NO Hand fatigue. [when packaged accordingly]

{KILLS: Ants, Roaches, Spiders and Other Home Invading Pests as listed.}

{USE: Indoors as a spot treatment and outdoors as a perimeter treatment to prevent future infestations}

Summary Back Panel

Kills

Ants (15 most common species): acrobat ants, argentine ants, bigheaded ants, carpenter ants, cornfield ants, crazy ants, field ants, fire ants (imported and native), ghost ants, harvester ants, false honey ants, little black ants, odorous house ants, pavement ants, pyramid ants, thief ants, and velvety tree ants

Common Crawling Pests: [beetles], [centipedes], [cockroaches], [crickets], [firebrats], [fleas], [flies], [pantry pests], [silverfish], [sowbugs], [spiders], [ticks]

{Flying Insects: [flies], [bees], [wasps], [and yellow jackets]} **{Wood Damaging Insects:** carpenter Ant, carpenter Bees and termites.} **{For a complete list of insects controlled visit us at XXX.com}**

DIRECTIONS FOR USE

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

Attention - Important

Do not allow children or pets to contact treated surfaces until spray has dried Do not treat pets with this products

Before Use:

- Cover all exposed food and cooking utensils
- Cover all food handling surfaces or wash thoroughly after treatment.
- {Shake Well Before Using}
- Connect sprayer if required, turn sprayer nozzle to desired spray pattern and follow directions for how to use below.

How to Use - Outdoors

As a Barrier [Perimeter] Treatment Apply early in the season or when insects appear. Apply in a band {5 to 10 ft.} wide around the outside perimeter of the building. Also treat the building foundation to a height of 2 to 3 feet where NOTE: The application of this product to vinyl pests are active and may find entrance. Thoroughly and aluminum siding (particularly lightly colored.) and uniformly wet the band area, using 1 gallon per aged, weathered or otherwise damaged) may 1,000 square feet{Apply in a band outdoors around result in staining, bleaching or discoloration. and up the foundation of the house where pests are Factors such as extreme heat and direct sunlight can promote damage. Before applying this active or gain entry. Spray until wet to cover an area (1) (2) 3 to 5 (10) (at least 1 (2) (3) (5)) ft from product to vinyl or aluminum siding, treat a small area and evaluate 30 minutes later to allow any the house.. } potential staining to occur. Regardless of the test results, do not apply to vinyl or aluminum siding Treat areas such as screens, window frames, while exposed to direct sunlight or during the porches, patios, driveways, garages and sidewalks heat of the day. where ants are trailing, feeding or nesting. Concentrate treatment at visible ant trails as well as cracks or crevices where ants may enter the structure The surface to be treated should be dry at the time of application {Carpenter Ants} (Apply as a barrier [perimeter] treatment as described above} {For best results locate and treat ant nests.} {Do NOT treat firewood} (Apply to nests should be made late in the evening {Flying Insects} when insects are at rest.}

How to Use - Indoors	
Use to kill and control listed pests commonly found indoors or that may enter from outdoor areas.	Use as a spot treatment – Spray insects directly or spray lightly around doors, windows and other places where insects may be found or enter premises.
	Spray areas where insects hide, such as baseboards, cracks and crevices, pantry areas, closets, around water pipes, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers, carports, garages, and storage sheds.
Ants	Apply to any trails, around doors and windows and other places where ants may be found.
{Flying insects}	{Apply directly to walls, ceilings, window screens, and other fly resting areas as a residual surface treatment.}
{Wood Damaging Insects}	{For the control of insects such as Termites, Ants and Carpenter Ants in localized areas of infested wood in and around structures, apply to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. }
	{For Termites - For Localized control only. Not recommended as sole protection against termites. Such applications are not a substitute for mechanical alterations, soil or foundation treatment but merely as a supplement. For active infestation, get a professional inspection.}

(end of Option 1)

Option 2

Summary Table

Where to Use	Trees and shrubs
	Roses and flowers
	Outside surfaces of buildings
	Indoors
Kills	Ants and Ticks
1	Gypsy moth, bagworm, budworm & leafroller, armyworms, cutworms, fall
	webworm, sod webworm, tent caterpillar, leafminer
	Millipedes & Centipedes
	Spiders
	Scorpions
	Springtails
	Silverfish, firebrats
	Grasshoppers, crickets, mole cricket
	Earwigs
	Cockroaches
	Chinch bug, boxelder bug, plant bug, lace bug
	Leafhoppers, spittlebugs, psyllids, whitefly, aphids, cicadas, scales,
	mealybug,, adelgids, treehoppers
,	Thrips
	Weevils & billbugs, ground beetles, (Japanese beetle, pillbug, sowbug,
4 · •	black turf Ataenius, bark beetle & pine shoot beetle), borers, elm leaf
	beetle
	Wasps & yellow jackets, bees, carpenter bees
	Flies. Including Biting fly & House fly
	This product controls acrobat ants, Argentine ants, bigheaded ants, carpenter
	ants, cornfield ants, crazy ants, field ants, fire ants (imported and native), ghost
	ants, harvester ants, false honey ants, little black ants, odorous house ants,
When to Use	pavement ants, pyramid ants, thief ants, and velvety tree ants
when to use	To Treat ornamental shrubs, trees and flowers: When insects or damage
	first appear When using as barrier: Early in season or when insects appear
	For Spot Insect Control, including Indoor Uses: Anytime Insects are
	To control insects on vegetables and fruits: When insects or damage
	first appear
	To control insects on roses, flowers and ornamentals: When insects or
	damage first appear
How to Use	For barrier treatments: Apply to surfaces to full wetness, creating a
HOW to USE	band.
	For Indoor spot treatment: Spray insect (pest) directly or spray until wet
	edges and crevices where insects (pests) may be.
	For Ornamental Shrubs, Trees and Flowers: fully spray foliage and
	stems until wet
	Sterns until wet

DIRECTIONS FOR USE

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

(SHAKE WELL BEFORE USING)

Mixing	Instructions	- How	Much to
Use			

F6578 EW is a ready-to-use liquid that can be sprayed directly onto pests (insects) and/or on to surfaces to provide longer control

How to Use – Indoors	
Use to kill and control listed pests commonly found indoors or that may enter from outdoor areas.	F6578 EW may be used as a general spot, crack and crevice treatment in nonfood areas. All areas where insects inhabit or through which insects may enter should be treated. • Spray or brush directly to pest and to areas
	where pests are found or hide. • Use only in well ventilated areas and do not use as a space spray.
To Kill Cockroaches, Crickets, Firebrats, Silverfish, Scorpions, Springtails Indoors	 Spray areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.
To Kill Ants Indoors	 Apply to any trails, around doors and windows and other places where ants may be found. This product will provide up to 9 months residual control (of ants)
To Kill Boxelder Bugs, Centipedes, Earwigs, Elm Leaf Beetles, Ground Beetles, Millipedes, Pillbugs, Sowbugs and Spiders Indoors	 Apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations.
To Kill Flies Indoors	Apply directly to walls, ceilings, window screens, and other fly resting areas as a residual surface treatment.
Treatment of Wood-in-Place to Kill Wood-Infesting Insects	 May also be used inside as well as around carports, garages, and storage sheds. For the control of insects such as Termites, Ants and Carpenter Ants in localized areas of infested wood in and around structures, apply to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable.
To Kill Insects in Greenhouse and Indoor Plants	 Spray leaves of infested indoor plants. Some plants may be sensitive to the spray solution, so first test a small area.

How to Use - Outdoors

NUISANCE PESTS ON OUTDOOR SURFACES

To Kill Ants, Earwigs, Crickets, Spiders and other Pests on Outside Surfaces and Around Buildings

Around structures: acrobat ants, Argentine ants, bigheaded ants, carpenter ants, cornfield ants, crazy ants, field ants, fire ants (imported and native), ghost ants, harvester ants, false honey ants, little black ants, odorous house ants, pavement ants, pyramid ants, thief ants, velvety tree ants

NOTE: The application of this product to vinyl and aluminum siding (particularly lightly colored, aged, weathered or otherwise damaged) may result in staining, bleaching or discoloration. Factors such as extreme heat and direct sunlight can promote damage. Before applying this product to vinyl or aluminum siding, treat a small area and evaluate 30 minutes later to allow any potential staining to occur. Regardless of the test results, do not apply to vinyl or aluminum siding while exposed to direct sunlight or during the heat of the day.

- Spray at a rate of 1 gallon per 1000 square feet to surfaces of buildings, porches, screens, window frames, eaves, and lawn areas adjacent to or around buildings, patios, decks, driveways and in other areas where pests are found.
- Apply to wetness by spray or brush to vegetation such as bushes and trees around buildings and other structures.
- For ants, apply to any trails, around doors and windows and other places where ants may be found.
- To prevent pests from entering buildings, apply solution to a band of surfaces, soil and vegetation (1) (2) (3) 5 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of (1) 2 to 3 feet where pests are active and may find entrance. Apply as a coarse spray. Thoroughly and uniformly wet the band area, using 1 gallon per 1,000 square feet.
- The surface to be treated should be dry at the time of application. Attics and unoccupied lofts should be treated at the same time and at the same rate.
- · Retreat as necessary if pests return.

Apply in a band (1) (2) (3) 5 to (5)10 ft. wide around the outside perimeter of the building. Treat areas such as porches, patios, driveways, sidewalks, flower gardens, and around trees, wood piles, dump-sites, and loading docks where ants are trailing, feeding or nesting. Concentrate treatment at visible ant trails as well as cracks or crevices where ants may enter the structure.

To Kill Carpenter Ants Outdoors

- Apply to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage.
- For best results, locate and treat carpenter ant nests.
- Apply a perimeter treatment as described above.
- To protect firewood from carpenter ants (and termites), apply to the soil beneath where the firewood will be stacked. DO NOT treat firewood with this product.

To Kill Bees and Wasps Outside

- Application to nests should be made late in the evening when insects are at rest.
- Thoroughly spray nest and entrance and surrounding areas where insects alight

LAWNS

To Kill Ants, Fire Ants, Beetles, Chinch Bugs, Chiggers, Fleas (including Cat fleas), Ticks (including dog and deer ticks), Mole Crickets, Sod Webworms, Weevils and other Pests in Lawns

- Uniformly spray one gallon over a 1,000 square feet area.
- Lawn should not be longer than 3 inches at the time of application. Application in combination with compatible surfactants may enhance penetration. Arid climates generally require the higher volume. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained.
- Repeat application is necessary only if there are signs of renewed insect activity

Ant Mound Treatments

Individual mounds: acrobat ants, Argentine ants, bigheaded ants, carpenter ants, cornfield ants, crazy ants, field ants, fire ants (imported and native), ghost ants, harvester ants, odorous house ants, pavement ants, thief ants

- To treat ant mounds including imported fire ant mounds, sprinkle 1-2 gal on each mound and a 4 foot diameter circle around the mound until it is wet.
- Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

ORNAMENTALS, ROSES, FLOWERS and TREES

To Kill Pests such as Ants, (including cut ants), Aphids, Bagworms, Earwigs, Sow Bugs, Millipedes, Beetles, Weevils, Plant Bugs, Leaf-cutting Bees, Sawflies, Caterpillars, Moths and other listed pests on Ornamentals, Roses, Flowers and Trees (including deciduous and evergreen trees, shrubs, ground covers, bedding plants, annuals, perennials, and foliage plants).

- Apply solution to point of run-off by brush or as a spray. Spray up to the point of run-off making sure to cover all sides of leaves and trunk.
 Retreat if pests return.
- For ground covers, bedding plants, foliage, annuals and perennials, apply one gallon of solution per 1,000 square feet as a uniform spray. Repeat treatment as necessary to achieve control using higher application rates as pest pressure & foliage area increases. Repeat application should be limited to no more than once per seven days.

Certain plants may be sensitive to the final spray solution. A limited area should be treated and observed for one week prior to application to the entire planting.

ATTENTION - IMPORTANT

Keep people and pets off surfaces until dry. Protect aquariums from spray mist. Do not treat pets with this product.

(end of Option 2)

PESTS CONTROLLED

Caterpillars, Butterflies and Moths	Tent forming caterpillars, cocoon forming caterpillars, chrysalis forming caterpillars. Leaf feeding caterpillars (including leaves of flowering plants, bushes and other ornamentals, vegetables and trees), fruit eating caterpillars, legume feeding caterpillars, vegetable feeding caterpillars, stem and trunk boring caterpillars, and leafrolling caterpillars. Caterpillars of the Yucca Moth family such as Fairy moths and Yucca moths; Clothes moth family; bagworm moth family, Selechiid moth family such as Potato tuber moths; Ermine Moth family such as Ailanthus Webworm moth; Clear Winged moth family such as Manroot borer, Squash Vine borer, Doll's Clearwing moth, California Sycamore borer; Tortricid Moth family (millers) such as Fruit Tree Leafroller moth, Orange Tortrix, and Codling moth; Skippers such as Least Skipper, Silver-spotted Skipper, and Long-tail Skipper; Swallowtails such as Green swallowtail, Zebra Swallowtail, Castern Black Swallowtail, Spicebush Swallowtail, and Phoebus; Whites, Sulphurs and Orange Tips family such as Sara Orange Tip, Great Southern White, and European Cabbage Butterfly; Gossamer-Winged Butterflies Family such as Great Purple Hairstreak, Spring Azure, Early Hairstreak, Eastern Tailed blue, Harvester, Silvery Blue, Brown Elfin, Marine Blue, American Copper, and Gray Hairstreak; Metalmark family such as Northern Metalmark; Snout Butterflies family such as Common Snout Butterfliy, Brush-Footed Butterfly family such as Gulf Fritillary, White Peakock, Harris' Checkerspot, Painted Lady (Thistle butterfly), American Painted Lady (Painted Beauty), Baltimore, Zebra (Yellow-barred Heliconian), Viceroy, White Admiral (Banded Purple), Mourning Cloak, Milibert's Tortoise Shell, Pearl Crescent, Question Mark, Buckeye, Great Spangled Fritillary, and Red Admiral; Hackberry and Goatweed Butterfly family such as Grape Leaf Skeletonizer; Slug Caterpillar Moth family such as Saddleback Catterpillar Moth, Pyralid Moths, Family such as Mediterranean Flour Moth, Solve Webworm Moth, Indian Meal Moth, Meal
Common Bristletails	Silverfish Family such as Silverfish, and Firebrat
Springtails	Podurid Springtail family such as Snow Pea, Seashore Springtail; Entomobryid Springtail family such as Ainsley's Springtail; Globular Springtail family
Cockroaches	Blattid Cockroach Family such as Oriental Cockroach (Asiatic Cockroach, Shad Cockroach), and American Cockroach (Waterbug); Blattellid Cockroaches family such as German Cockroach (Croton Bug)
Termites	
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Earwigs	Long-Horneo Éarwig family such as Ring-legged Earwig, and Riparian Earwig; Common Earwig family such as European Earwig
Grasshoppers & Crickets	Pygmy Grasshopper family such as Aztec Pygmy Grasshopper; Short-Horned Grasshopper family such as Creosote Bush Grasshopper, Lubber Grasshopper, Painted Grasshopper, Carolina Locust, Dragon Lubber Grasshopper (Gray Dragon), Three-banded Grasshopper (Banded Range Grasshopper), Differential Grasshopper, Redlegged Locust, Spur-troated Grasshopper, Two-stripped Grasshopper, Panther-spotted grasshopper, Southeastern Lubber Grasshopper, Alutacea Bird Grasshopper, American Bird Grasshopper, Green Valley Grasshopper, Toothpick Grasshopper, Horse Lubber Grasshopper, Pallid-winged Grasshopper, and Great Crested Grasshopper (Dinosaur Grasshopper); Long-horned grasshoppers and Katydids family such as Oblong-winged Katydid, Mormon Cricket, Short-legged Shield back Katydid, California Katydid, Angular-winged Katydid, Keeled Shield-back Katydid, Nebraska Cone-head, Gladiator Katydid, Mescalero Shield-back Katydid, True Katydid (Northern Katydid), and Fork-tailed Bush Katydid; Camel Crickets family such as Spotted Camel Cricket, Secret Cove Cricket, Jerusalem Cricket; True Crickets family such as House Cricket (Cricket on the Hearth), Field Cricket, California Tree Cricket, Snowy Tree Cricket, and Black-horned Tree Cricket; Mole Cricket family such AS Northern Mole Cricket and European Mole Cricket
True Bugs	Plant Bug family such as Adelphocoris Plant Bugs, Scarlet Plant bugs, Tarnished Plant Bugs, and Four-lined Plant Bug; Assassin bug family such as Bee Assassins, Wheel Bug; Ambush Bug family such as Jagged Ambush Bug; Lace Bug family such as Oak Lace Bug; Seed Bug family such as Small Eastern Milkweed Bug; Long-necked Seed Bug, and Large Milkweed Bug; Stilt Bug family such as Stilt Bugs; Leaf-footed Bug family such as Florida Leaf-footed Bug, and Squash Bug; Scentless Plant Bug family such as Eastern Boxelder Bug and Western Boxelder Bug; Stink Bug family such as Green Stink Bug, Brochymenas, Two-spotted Stink Bug (Conspicuous Stink Bug), Harlequin Cabbage Bug (Calico Bug, Fire Bug), and Spined Soldier Bug
Cicadas and Kin	Cicada family such as Periodical Cicadas, Dogday Harvestfly, and Grand Western Cicada
Treehoppers	Treehopper family, such as Thorn-mimic Treehopper, Oak Treehopper, Buffalo Treehopper, and Locust Treehopper
Leafhoppers	Leafhopper family such as Grape Leafhopper, Scarlet-and-green Leafhopper, Sharpshooter
Thrips	Banded Thrips family such as Banded-wing Thrips; Common Thrips family
Beetles	Tiger Beetle Family such as Beautiful Tiger Beetle, Dainty Tiger Beetle, Six-Spotted Green Tiger Beetle, and Dejean's Flightless Tiger Beetle; Ground Beetle family such as Bombardier Beetle, Fiery Searcher (Caterpillar hunter), European Ground Beetle, Green Pubescent Ground Beetle, Common Black Ground Beetle, and Boat-backed Ground Beetle; Predacious Diving Beetle family such as Small Flat Diving Beetle, Large Diving Beetle, and Marbled Diving Beetle; Whirligig Beetle family such as Large Whirligig Beetle, and Small Whirligig Beetle; Hister Beetle family such as Hister beetles; Rove Beetle family such as Gold-and-brown Rove Beetleand Pictured Rove Beetle; Carrion Beetle family such as Margined Burying Beetle, Tomentose Burying Beetle (Gold-necked Carrion Beetle), American Carrion Beetle, and Northern Carrion Beetle; Stag Beetle family such as Elephant Stag Beetle, Agassiz's Flat-horned Stag Beetle, Reddish-brown Stag Beetle, and Rugose Stag Beetle; Bessbugs family such as Patent-leather Beetle (Horned
March 20, 2008 (ver	Passalus); Scarab Beetle family such as Tumblebugs, Goldsmith Beetle, Green Jumping Beetle, Brown Fruit Chafer, Glossy Pillbug, Grapevine Beetle, May Beetles (June Beetles), Ten-lined June Beetles, and Japanese Beetle; Metalic Wood-Boring Beetles such as Golden Buprestid, Western Pine Borer (Sculptured Pine Borer), and Divergent Metallic Wood Borer (Flatheaded Cherry Tree Borer); Click Beetle family such as Eastern Eyed Click Beetle (Big-eyed Click Beetle), and Fire Beetles; Fireflies (Lightning Bugs) family such as Pyralis Firefly, and Pennsylvania Firefly; Soldier Beetle family such as Pennsylvania Leather-wing, and Downy Leather-wing, Net-winged Beetle family such as Banded Net-wing, and Golden Net-wing; Spider Beetle family such as Spider Beetles, and

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Texan Spider Beetle; Branch and Twig Borer family such as Apple Twig Borer; Checkered Beetle family such as California Checkered Beetle, Elegant Checkered Beetle, Slender Checkered Beetle, and Red-blue Checkered Beetle; Flat Bark Beetle family such as Red Flat Bark Beetle; Pleasing Fungus Beetle such as Rough Fungus Beetle; Ladybug Beetles such as Two-spotted Ladybug Beetle, Nine-spotted Ladybug Beetle, Spotless "Nine-spotted" Ladybug, Convergent Ladybug Beetle, and Ash Gray Ladybug Beetle; Darkling Beetles such as Horned Fungus Beetle, Broad-necked Darkling Beetle, Plicate Beetle, Yellow Mealworm Beetle, and Ironclad Beetle; Fire-colored Beetles family such as Fire Beetles; Blister Beetles family such as Striped Blister Beetle, Arizona Blister Beetle, Short-winged Blister Beetle, (Oil Beetle); Long-horned Beetle family such as Black-horned Pine Borer, Yellow Douglass Fir Borer, Long-jawed Longhorn, Elder Borer (Cloaked Knotty-horn), Twig Pruners, Pine Sawyer (Spined-neck Longhorn), Golden-haired Flower Longhorn, Locust Borer, Black Pine Sawyer (White Spotted Sawyer), Cylindrical Hardwood Borer, Cottonwood Twig Borer, Cottonwood Borer, Giant Root Borers, Ribbed Pine Borer, California Laurel Borer (Banded Alder Borer), Ivorv0marked Beetle, Red Milkweed Beetle (Eastern Milkweed Longhorn), Notch-tipped Flower Longhorn, and Willow Borer; Seed Borer family such as Bean Weevil; Leaf Beetle family such as Dogwood Calligrapha, Milkweed Tortoise Beetle (Argus Tortoise Beetle), Dogbane Leaf Beetle, Milkweed Leaf Beetle, Willow Leaf Beetle, Spotted Asparagus Beetle, Clavate Tortoise Beetle, Spotted Cucumber Beetle, Waterlily Leaf Beetle, Swamp Milkweeed Leaf Beetle, Three-lined Potato Beetle, (Old-fashioned Potato Bug, Colorado Potato Beetle, and Girdled Leaf Beetle; Primitive Weevil family such as Oak Timberworm Beetle (Primitive Weevil); Snout Beetles and Weevil family such as Boll Weevil, Black Oak Acorn Weevil, Lesser Cloverleaf Weevil, Alfalfa Weevil, Pine Weevils, Rose Weevils, Agraye Billbug, and Stored-grain Billbug (Granary Weevil, Elephant Bug); Bark and Ambrosia Beetle family such as Red Turpentine Beetle, Pine and Spruce Engraver Beetles, and Bark Beetles.

Bees, Ants, Wasps, Sawflies

Cimbicid Sawflies family such as Rusty Willow Sawfly; Common Sawfly family such as Northeastern sawfly; Horntail family such as Pigeon Horntail, and Smokey Horntails; Stem Sawflies family such as Raspberry Horntail; Braconids family such as Braconid Wasps; Ichneumons family such as Giant Ichneumons, Short-tailed Ichneumons and Red-tailed Ichneumon; Torymid Wasp family such as California Torymus; Chalcid family such as Golden-yellow Chalcid; Gall Wasp family such as California Oak Gall Wasps and Live Oak Gall Wasp; Pelecinid family such as American Pelicini; Tiphiid Wasp family such as Fivebanded Tiphiid Wasp; Velvet-Ants such as Thistledown Velvet-ant, Red Velvet-ant, and Cow Killer; Scoliid Wasp family such as Scarab-hunter Wasp, and Digger Wasp; Ant family such as Spine-waisted ants, Leafcutter ants, Texas Carpenter ants, Black Carpenter ants, Crater-nest ants, Texas Shed-builder ant (Acrobat Ant), Red Ant, Legionary Ant, Little Black Ant, Arid Lands Honey Ant, Big-headed Ant, Honey Ant, and Fire Ant; Vespid Wasp family such as Potter Wasp, Paper Wasps, Yellow Jackets, and Sandhills Hornet; Spider Wasps such as Blue-black Spider Wasps, and Tarantula Hawk; Sphecid Wasp family such as Thread-waisted Wasps, Eastern Sand Wasp, Steel-blue Cricket Hunter, Purpulish-blue Cricket Hunter, Florida Hunting Wasp, Black and Yellow Mud Dauber, Cicada Killer, and Great Golden Digger Wasp; Bee families such as Plasterer Bee, Yellow-faced Bees, Virescent Green Metallic Bees, Augochlora Green Metaillic Bees, Alkali Bee, Mining Bee, Willow Mining Bee, Nevada Mining Bee, Clarkia Bee, Faithful Leafcutting Bee, Western Leafcutting Bee, Mason Bees, California Leafcutting Bee, Digger Bees, Western Cuckoo Bee, California Carpenter Bee,

Flies

Crane fly family such as Wood-boring Tupulid, Giant Western Crane Fly, and Crane Flies; Phantom Crane Flies such as Phantom Crane Fly; Net-winged Midges such as Comstock's Net-winged Midge; Phantom Midges; Black Flies such as Black flies; March Flies family such as March Flies; Fungus Gnats family such as Fungus Gnats; Soldier Flies such as Soldier flies; Horse and Deer Fly family such as Deer Flies, American Horse Fly, Black Horse Fly, and Three-spot Horse Fly; Snipe Fly family such as Gold-backed Snipe Fly; Stiletto Fly family such as Stiletto Flies; Flower-loving Fly family such as Flower-loving Fly family such as Bearded Robber Fly, Scken's Bee Hunter, Giant Robber Fly, Bee Killer (Giant Robber Fly), and Robber Flies; Bee Flies such as Bee Fly, Large Bee Flies, and Progressive bee Flies; Dance Flies such As Dance Flies; Long-Legged Flies such as Condylostylid Long-legged

	Flies, and Texan Long-legged Fly; Hover Fly family such as Woollty Bear Hover Flies, Elongate Aphid Flies, Drone Flies, Bulb Flies, American Hover Flies, and Toxomerus Hover Fly; Thick Headed Fly family such as Thick headed fly; Pyrgotid Fly family such as Pyrgotid Flies; Fruit Fly family such as Walnut Husk Fly, and Apple Maggot Fly; Seaweed Fly family such as California Seaweed Fly; Marsh Fly family such as Marsh flies; Shore fly family such as Yellowstone Brine Fly; Pomace fly family such as Vinegar Fly; Anthomyiid Fly family such as Dung Fly; Muscid Fly family such as House Fly, and Biting Stable Fly; Louse Fly family, Blow Fly family such as Blue Bottle Fly, Screw-worm Fly, and Green Bottle Fly; Flesh Fly family such as Flesh flies; Tachinid Fly family such as Beelike Tachinid Fly, Early Tachinid Fly, Repetitive Tachinid Fly, Tachina Fly, and Fringe-legged Tachinid Fly
Spiders	Folding trapdoor spider family such as Turret spider; Tarantula family such as Desert Tarantula; Trapdoor Spider family such as California Trapdoor spider; Dictynid spider family such as Branch-yip spiders; Spitting spider family such as Spitting spiders; Violin Spider family such as Desert Loxosceles, and Violin Spider; Comb-footed Spider family such as American House Spider; Sheet-web Weever family such as Hammock Spider; Orb Weaver family such as Orb weavers, barn spider, Garden spider (cross spider), Marbled orb Weaver, Shamrock Spider, Six-spotted Orb-weaver, Silver Argiope, Black-and-Yelley Rgiope, Crablike Spiny Orb Weaver, Bola Spider, Arrow-shaped Micrathena, and Golden-silk spider (calico spider); Large-jawed Orb Weaver family such as Mabel Orchard Spider, Venusta Orchard Spider, Elongate Long-jawed Orb Weaver, and Long-jawed Orb Weaver; Funnel Web Weaver family such as Grass Spiders; Nursery Web Spider family such as Brownish-grey Fishing Spider, Six-spotted Fishing spider, and Nursery Web Spider; Wolf Spider family such as Burrowing Wolf Spiders, Carolina Wolf spider, Forest Wolf spider, rabid wolf spider, and Thin-legged Wolf spider; Lynx Spider family such as Jumping Lynx spider, and green lynx spider; Sac Spider family such as Ant-mimic spiders; Wandering spider family such as Wandering spiders; Giant Crab spider family such as Huntsman spider, and Golden Huntsman spider; Selenopid Crab Spider family such as Goldenrod spider (flower spider, red-spotted Crab Spider), Elegant Crab Spider, Thrice-banded Crab Spider; Philodromid family such as Inconspicuous Crab Spiders; Jumping Spiders such as Green Lyssomanes, Dimorphic Jumping Spider, Metaphid Jumping Spider, Ant-mimic Jumping spider, and Daring Jumping spider
	Daddy-long-legs Daddy-long-legs family such as Eastern Daddy-long-legs and Brown Daddy-long-legs
Scorpions	Buthid Scorpion family such as Centruroides Scorpions; lurid Scorpion family such as Giant Desert Hairy Scorpion Pseudoscorpions, Chernetids family
Phyllid, Whitelflies, Aphids, Mealybugs, Scale Insects	Phyllid family such as American Alder Psyllid; Whitefly family such as Greenhouse Whitefly; Aphid family such as Green Apple Aphid, Rosy Apple Aphid, Rose, Pea and Potato Aphid, Root Aphid, Coudy-winged Cottonwood Aphid, and Giant Willow Aphid; Woolly and Gall-Making Aphid family such as Woolly Apple Aphid; Giant Scale Insects family such as Cottony Cushion Scale; Armored Scale Insects family such as Oyster Shell Scale; Mealybug family such as Long-tailed mealybug; Cochineal Bug family such as Cochineal bug.
Mites & Ticks	Spider Mite family such as Two-spotted Spider Mite; Velvet Mite family such as velvet mites; Soft Ticks family such as Mammal Soft Tick; Hard Tick family such as American Dog Tick, brown dog tick, Eastern Wood Tick, and California Black-eyed Tick
Centipedes and Millipedes	House centipedes such as House centipede; Soil centipedes such as Garden Centipede; Stone centipedes; Tropical centipedes such as Florida blue centipede, Giant-Redheaded centipede, and Scolopendra polymorpha Millipedes such as soft millipedes, Florida millipede, Almond millipede, North American millipede and flat millipedes

IMPORTA	NT – Directions for Storage and Disposal	
Storage	Keep from freezing. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place, preferably in a locked storage area and avoid excess heat. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into drink containers.	
Product Disposal	If partially filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.	
	If empty: Non refillable container. Do not reuse or refill this container. Offer for recycling, if available, or dispose of in trash.	

Dealers Should Sell in Original Packages Only. Conditions of Sale and Limitation of Warranty and Liability:

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