

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

November 24, 2015

Ronald Hampton, Ph.D. Regulatory Product Manager Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419

Subject: PRIA Label Amendment – Add scorpions on porous surfaces and clarify rates

Product Name: Derby

EPA Registration Number: 100-1436

Application Date: 3/30/2015 Decision Number: 502983

Dear Dr. Hampton:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Jacquelyn Marchese by phone at 703-347-0559, or via email at marchese.jacquelyn@epa.gov.

Sincerely,

Venus Eagle, Product Manager 01 Invertebrate and Vertebrate Branch 3 Registration Division (7505P)

Enclosure

ACCEPTED

Nov 24, 2015

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-1436

[Master Label]

GROUP 3A 4A INSECTICIDES

[Shake well [before using].]

DERBYTM

Insecticide

For use in, on, and around buildings and structures for the control of listed pests on lawns, ornamental trees, and shrubs around residential, institutional, public, commercial, and industrial buildings, and in parks, recreational areas, and athletic fields.

In the State of New York, this product may only be applied for indoor uses.

Active Ingredients:

Thiamethoxam (CAS No. 153719-23-4):	11.6%
Lambda-cyhalothrin ¹ (CAS No. 91465-08-6):	3.5%
Other Ingredients:	84.9%
Total:	100.0%

¹Microencapsulated

Derby contains 1.04 lb thiamethoxam and 0.32 lambda-cyhalothrin in a ZC formulation.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1436 EPA Est. No.

SCP 1436

Net Contents

FIRST AID		
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. 	
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. 	
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. 	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.		
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call		

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals CAUTION/PRECAUCIÓN

Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapors. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse

1-800-888-8372

Environmental Hazards

This product is toxic to wildlife, highly toxic to aquatic invertebrates, and extremely toxic to fish. Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, do not apply this pesticide within 25 ft of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

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

Derby

when rain is not predicted for the next 24 hours will help 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 systems. Do not contaminate water when cleaning equipment or disposing of equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. When making applications, care should be used to avoid household pets, particularly fish and reptile pets.

This product is highly toxic to bees exposed to direct treatment or residues on blooming plants or weeds. Do not apply this product or allow it to drift to blooming plants or weeds if bees are foraging.

Surface Water Advisory

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. (See manual at the following internet address:

http://www.wsi.nrcs.usda.gov/products/W2Q/pest/core4.html.)

Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

Ground Water Advisory

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Spray Drift Advisory

Do not allow this product to drift.

PROTECTION OF POLLINATORS



APPLICATION RESTRICTIONS EXIST FOR

THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:

http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

Physical and Chemical Hazards

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

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

USE RESTRICTIONS



Do not apply Derby while bees are foraging. Do not apply Derby to plants that are flowering. Only apply after all flower petals have fallen off.

Do not apply this product, by any application method, to linden, basswood, or *Tilia* species.

Do not use this product with oil.

Do not apply this product in any room being used as a living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.

Do not apply to classrooms, nurseries, or daycare facilities when in use.

Do not apply to institutions (including libraries, sports facilities, etc.) when occupants are present in the immediate treatment area.

Do not allow animals and people access to treated areas until the spray deposit has dried.

Do not apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.

Do not treat surfaces likely to be contacted by food. **Do not** apply when food-handling establishments are in operation or foods are exposed. Food must be covered or removed from area being treated. **Do not** apply directly to food or allow applications to contaminate food.

Use in all indoor permitted sites, including food-handling establishments, must be restricted to areas that eliminate exposure to food-handling surfaces and areas that are not easily accessible to occupants.

Do not allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

Do not use water-based sprays of Derby in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

Do not spray less than the labeled rate when treating for ants, fleas, flies, mosquitoes, ticks, bed bugs, scorpions, wasps, hornets, yellow jackets, carpenter bees or termites.

Derby

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, **do not** allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters.

All outdoor applications must be limited to spot or crack-and-crevice treatments 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 above grade;
- 4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
- 5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
- 6. Applications made through the use of a coarse, low-pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pest.

Do not water treated area to the point of runoff.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitats can occur. **Do not** allow the product to enter any drain during or after application.

USE PRECAUTIONS

Shake well [before using].

Let treated surfaces dry before allowing humans and pets to contact surfaces.

Surface Staining: Derby **has not stained** or caused damage to painted or varnished surfaces, plastics, fabrics, tile, siding or other surfaces where water applied alone causes no damage. However, treat a small area and allow it to dry to determine whether staining will occur. To avoid contamination from previous treatments, thoroughly wash out sprayer, hoses and screens with water and detergent before using Derby.

Resistance Management

GROUP 3A 4A INSECTICIDES

Derby contains lambda-cyhalothrin (a Group 3A insecticide) and thiamethoxam (a Group 4A insecticide). Due to the inherent risk of the development of resistance to any pesticide, it is strongly advised that Derby be used in a sound resistance-management program that includes, but is not limited to:

- Applying Derby according to the label use directions;
- Alternating Derby with products with different modes of action;
- Avoiding treatment of successive generations with Derby;
- Incorporating IPM techniques into your insect control program.

If resistance is suspected, do not reapply Derby or other Group 3A or Group 4A insecticides.

SYNGENTA encourages responsible use of Derby to ensure effective long-term control of the insects on the label. For additional information about implementing these or other resistance management practices, consult a local or state Extension specialist or Syngenta representative.

LAWNS/TURFGRASS AND ORNAMENTALS

Derby contains two insecticides, thiamethoxam and lambda-cyhalothrin. Thiamethoxam and lambda-cyhalothrin provide long-lasting, broad-spectrum contact and systemic control of turf and ornamental plant insects.

Derby may be used for applications to maintain outdoor areas where turf and ornamentals are grown, such as residential landscaped areas and non-residential landscapes around institutional, public, commercial, and industrial buildings; parks; recreational areas; and athletic fields. Consult your state extension office or pesticide regulatory officials for further information.

USE RESTRICTIONS

Do not apply this product to lawns/turfgrass or allow it to drift to blooming plants or weeds if bees are foraging in or adjacent to the treatment area. Time application during periods when pollinating insects are not present, such as early morning or late evening. **Do not** apply to plants/ornamentals that are flowering. Only apply after all flower petals have fallen off.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or commercial sod production.

Do not apply this product through any type of irrigation system.

Do not apply this product to edible crops.

Do not apply this product by aerial application.

Do not water the treated area to the point of runoff.

Do not make applications during rain.

Do not apply more than 32 fl oz of Derby per acre per calendar year.

Mixing Instructions (Turf and Ornamental Dilutions)

Derby may be mixed with water and used in all types of standard application equipment. Fill applicator tank with ½ to ¾ volume of water and add Derby. Adjust water pH with a buffering agent if necessary to achieve a pH of 5-7. Slowly add Derby to applicator tank water with maximum agitation. Fill the tank to the appropriate volume as determined by the listed rates and the size of the tank and continue to agitate while making applications. Close and shake or re-agitate applicator tank before use if application is interrupted. Make up only the amount of treatment volume required.

Tank-Mixing (Turf and Ornamental Dilutions)

Derby may be tank-mixed with other currently registered pesticides unless expressly prohibited by the product label. To ensure compatibility, conduct a small-volume mixing test with the other products. If other chemicals are added to the applicator tank, add Derby last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours.

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

APPLICATION TO TURFGRASS

Sites of Application – Derby may be used for applications to turfgrasses around residential, institutional, public, commercial and industrial buildings; parks; recreational areas; and athletic fields.

Broadcast Applications to Turfgrass – Apply Derby as a broadcast application to turfgrass for control of targeted pests. Use sufficient water volume (2–10 gal/1,000 sq ft) to uniformly distribute Derby over the area being treated and to adequately move the active ingredient into the canopy and thatch layers. Derby is not phytotoxic to any major turfgrass species. Derby can be applied to established turf or at seeding or during seed germination.

Application Timing – Maintain adequate soil moisture before and after application for optimum control and healthy turfgrass growth. Excessively wet or dry conditions may impact the performance of Derby against white grubs. Do not mow the turf until the

treated area has been irrigated or rainfall has occurred to allow for maximum and uniform uptake into the turfgrass or soil. Do not apply when turfgrass is waterlogged or when soils are saturated with water (i.e., will not accept irrigation).

Do not apply more than 32 fluid ounces of Derby per acre per calendar year.

Do not allow this product to contact plants in bloom .

KEEP CHILDREN AND PETS OFF TREATED AREAS FOLLOWING THE APPLICATION UNTIL SPRAY HAS DRIED.

TABLE 1: Turf Pests

Pests	Dosage of Derby
Ants	Make a single application of
Armyworms	0.6 fl oz (19 mL) per 1000 sq ft
Black turfgrass ataenius (adults)	(or 28 fl oz per acre).
Bluegrass billbug (adults and larvae)	, ,
Chinch bugs ¹	or
Crickets	
Cutworms	Make two applications of
Fire Ants	0.3 fl oz (10 mL) per 1000 sq ft
Fleas	(or 14 fl oz per acre)
Hyperodes weevil (adults and larvae)	on a 3- to 5-week interval.
Japanese beetles (adult)	
Mole Cricket (young adults and nymphs) ²	
Sod webworms	
White grubs ³	
Aphodius	
Asiatic Garden Beetle	
Black Turfgrass Ataenius	
European Chafer	
Green June Beetle	
Japanese Beetle	
May or June Beetle Northern Masked Chafer	
Oriental Beetle	
Southern Masked Chafer	
Chiggers	Make three applications of
Grasshoppers	0.2 fl oz (7 mL) per 1000 sq ft
	(or 10.5 fl oz per acre)
	on a 3- to 5-week interval.

¹ Chinch Bug – Apply when insects are first observed. Repeat applications on a 3 to 5-week interval to obtain control.

² Mole Crickets – Apply from first egg hatch to peak egg hatch. If the soil is dry, irrigate after application to move insecticides into the soil.

³ White grubs -- Begin applications up to 45 days before the historical peak of adult flight to second instar grub of the species being targeted. For optimum control, treat from peak flight

to peak egg hatch. Irrigate to move Derby into the root zone. Full-season control of white grubs will be obtained with either a single 28 fl oz application or two 14 fl oz applications. Apply to turf prior to the establishment of high insect pressure or significant turf damage.

Fire Ant Mound Treatment - Treat individual mounds with a drench application using a watering can. Use 0.15 fluid ounces of Derby per 2.5 gallons of water. Thoroughly soak each mound and a 3 ft diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. For best results, apply in early morning or late evening hours. Applications can be made on a monthly basis to maintain protection of treated areas.

Surface Insect Control (including armyworm, cutworms, and fleas) - Apply Derby at specified rates in 2–5 gallons of water per 1,000 sq ft (87-218 gal/A). The use of a spreader-sticker may be useful if high rainfall amounts are forecast; otherwise, the addition of adjuvants is not necessary under normal conditions for surface insect control in turf.

Delay watering or mowing for 12–24 hours after application for optimum control of surface-feeding insect pests.

Thatch-Inhabiting Insect Control (including chinch bugs) - Apply Derby at specified rates in 2–10 gallons of water per 1,000 sq ft (87-440 gal/A). The use of a nonionic wetting agent, penetrant, or similar adjuvant is recommended. Irrigate after application with up to ½ inch of water to move the Derby into the thatch layer. If irrigation is not available, then use high water application rates volumes (>4 gal/1,000 sq ft or 174 gal/A) for optimum results.

For specific information about developmental stages of the target pest and optimal timing of applications, consult with your State Cooperative Extension Service.

APPLICATION TO ORNAMENTALS

Apply to ornamentals in residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings; parks; recreational areas; and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants, and groundcovers).

Do not apply more than 32 fluid ounces of Derby per acre per calendar year.



Do not apply Derby while bees are foraging. Do not apply Derby to plants that are flowering. Only apply after all flower petals have fallen off.

Do not apply this product, by any application method, to linden, basswood, or *Tilia* species.

TABLE 2: Pests of Ornamental Plants

Pests ¹	Dosage of Derby
Adelgids (including Hemlock wooly adelgid)	4.2 - 13.9 fl oz per 100 gallons
Armyworms	
Azalea caterpillars	or
Aphids	
Bagworms	125 - 410 ml per 100 gallons
Black vine weevils (adult)	
Boxelder bugs	
Budworms	
California oakworms	
Cankerworms	
Crickets	
Cutworms	
Elm leaf beetles	
Fall webworms	
Flea beetles	
Grasshoppers	
Japanese beetles (adults)	
June beetles (adults)	
Lace bugs	
Leaf-feeding caterpillars	
Leaf-gall-forming insects	
Leafhoppers	
Leafminers (adults)	
Leaf rollers	
Leaf skeletonizers	
Mealybugs	
Midges	
Oleander moth larvae	
Pine shoot beetles	
Pinetip moths	
Plant bugs	
Psyllids (including Asian citrus psyllid)	
Root weevils	
Sawflies	
Scale insects (crawlers)	
Spittlebugs	
Striped beetles	
Thrips	
Tip moths	
Tussock moth larvae	
Broadmites	8.5 - 13.9 fl oz per 100 gallons
Brown soft scale	2.0 .0.0 ii 02 poi 100 gailoiilo
California red scale (crawlers)	

Clover mites	or
Mealybugs	250 410 ml per 100 gellene
Pine needle scale (crawlers)	250 - 410 ml per 100 gallons
Whiteflies	

¹ For nuisance pests other than plant-feeding pests (e.g., spiders, cockroaches, mosquitoes), refer to **Outdoor Pests** section for use instructions.

Start application to ornamentals prior to the establishment of high insect pest populations. Make reapplications as directed to keep pest populations under control, using higher rates within the listed rate range as pest pressure increases.

Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatments to spot treatments.

Good spray coverage is necessary to provide the most effective level of control. Spray uniformly to wet plant, but not to the point of runoff or drip. Addition of a spreader-sticker at specified rates may enhance the control of insects on certain species of ornamentals having waxy, hard-to-wet foliage.

Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.

NOTE: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution. Spray a selection of ornamental plants and observe them for 7–10 days prior to treating large areas if local use experience is unavailable. This is especially advisable if Derby is being mixed with another product or ingredient besides water. See **Tank Mixing (Turf and Ornamental Dilutions)** instructions.

Scale: Thoroughly cover the plant with Derby spray, including trunks, stems, twigs, and foliage for control of scale insects.

Bagworm: Apply Derby when bagworm larvae begin to hatch. Spray directly on the larvae. Application is most effective when the larvae are young.

Ornamental, Non-Bearing Fruit and Nut Trees and Woody Shrubs

Derby contains thiamethoxam, which is a systemic insecticide that will be translocated upward into the plant from root uptake. Derby must be placed in an area where roots can absorb the active ingredient. It may take 2–4 weeks for the active ingredient to move from the root zone to the area of the trees affected. If insect pests are already present and causing damage, consider making a foliar application and then follow up with a soil application. For best results, water in after application with enough water to move the insecticide into the root zone of the tree.

For trees and shrubs, use 0.2 fluid ounces (6 ml) of Derby per inch cumulative trunk diameter (DBH) of the plant(s) or per foot of shrub height (less than 6 ft tall).

STRUCTURAL AND PERIMETER PEST CONTROL

USE SITES

Use Derby as a perimeter, crack-and-crevice, and/or spot treatment in and around structures or modes of transportation. Permitted areas of use include the following buildings, structures, and modes of transport:

- aircraft (cargo and other non-cabin areas only)
- apartment buildings
- boiler rooms
- buses
- closets
- correctional facilities
- decks
- dumpsters
- entries
- factories
- fencing
- food manufacturing, processing and serving establishments, such as bakeries, breweries, canneries, granaries, grain mills, etc.

- furniture
- garages
- garbage rooms
- greenhouses (noncommercial)
- hospitals
- hotels and motels
- houses
- industrial buildings
- laboratories
- landscape vegetation
- locker rooms
- machine rooms
- mausoleums
- mobile homes
- mop closets
- mulch
- nursing homes

- offices
- patios
- pet kennels
- porches
- railcars
- restaurants
- storage rooms
- schools
- stores
- trailers
- trees
- trucks
- utility passages
- vessels, vestibules
- warehouses
- wineries
- yards

Use in all indoor permitted sites, including food-handling establishments, must be restricted to areas that eliminate exposure to food-handling surfaces and areas that are not easily accessible to occupants.

For indoor applications, retreat at 21-day intervals or as necessary to maintain control.

Refer to the outdoor use restrictions in the **Outdoor Pests** section.

Mixing Instructions

Derby is intended for dilution with water for application using hand-held or power-operated application equipment as a coarse spray for crack-and-crevice, spot, and surface treatments. Application equipment that delivers low-volume treatments may also be used. A surface treatment of Derby may be applied by using a paintbrush or other porous applicator attached to a handle. Fill applicator tank with the desired volume of water and add Derby. Close and agitate before use in order to ensure proper mixing. Re-agitate applicator tank before use if application is interrupted. Mix only amount of treatment volume as required.

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Tank Mixing

Derby may be tank-mixed with other currently registered pesticides unless expressly prohibited by the product label. To ensure compatibility, conduct a small volume mixing test with the other products. If mixed with sanitizers, add Derby to the tank first. If other chemicals are added to the applicator tank, add Derby last. Fill tank to desired volume and re-agitate while making applications.

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

Foam Applications

Derby may be converted to foam and the foam used to treat structural voids to control or prevent pests including ants, wasps, wood-destroying insects, or other arthropods harboring in walls, under slabs, or in other void areas. Mix end-use dilution with manufacturer's recommended volume of foaming agent. For applications inside wall voids, expansion ratios of 15:1 or drier are suggested.

Fixed In-Wall Delivery Systems

Closed, in-wall insecticidal delivery systems such as permanently installed piping or flexible tubing may also be used to deliver diluted product to inaccessible areas. Generally, about one ounce of finished liquid product is needed per 35-40 ft. of tubing (based on 1/8"diameter tubes). For these systems, use 0.065%-0.13% dilution rates as listed in the **General Household Pests** table. Prepare the finished product at the appropriate dilution, then inject into system as recommended by delivery system manufacturer.

Spot Treatments

Spot treatments may be made by spraying, misting, painting, or otherwise applying to surfaces covering an area no larger than 2 sq ft. For areas limited to spot or crack-and-crevice treatments, multiple spot treatments can be made to surfaces as long as 20% of the total target area is not exceeded.

GENERAL HOUSEHOLD PESTS

Use the appropriate rate to control listed pests. For pests for which a rate range is given, use the lowest rate for low pest pressure or scheduled maintenance control programs and the highest rate for heavy pest pressure, pest-conducive environmental conditions (such as high temperatures or moisture), or when longer residual activity is desired.

TABLE 3: General Household Pests (Indoor and Outdoor)

TABLE 3. General nouseriola Pesi	Concentration of	
	Combined	
	Active Ingredients	
Pests Controlled	in Final Dilution	
Ants ¹	0.065%-0.13%	
Beetles (including Multicolored Asian		
Lady Beetle)	Mix 0.55 fl oz (16 ml) to	
Boxelder Bugs	1.1 fl oz (32 ml) of	
Carpenter Bees	Derby per gallon of	
Carpet Beetles	water.	
Centipedes		
Cigarette Beetles		
Clover Mites		
Cluster Flies		
Cockroaches		
Confused Flour Beetles		
Crickets		
Earwigs		
Firebrats		
Fleas (indoors)		
Flies		
Grasshoppers		
Lesser Grain Borers		
Millipedes		
Mosquitoes		
Red Flour Beetles		
Rice Weevils		
Saw-toothed Grain Beetles		
Silverfish		
Sowbugs		
Spiders		
Springtails		
Stink Bugs (including Brown Marmorated Stink Bug and Kudzu		
Stink Bug) Ticks		
TIONS		
Pad Puga	0.13%	
Bed Bugs	0.1376	
Fleas (outdoors)	Mix 1.1 fl oz (32 ml) of	
Scorpions	Derby per gallon of	
Wasps, Hornets, and Yellow Jackets	water.	
	water.	

¹For treatment of fire ant mounds, see **Applications to Turfgrass** section of this label.

INDOOR PESTS

Ants (Including Carpenter Ants and Nuisance Ants)

Apply a 0.065%-0.13% dilution as a spot, crack-and-crevice, and/or void treatment to ant trails around doors and windows and other places where ants may be found. Indoors, apply as a residual surface treatment to active areas such as baseboards; corners; around pipes; in and behind cabinets; behind and under refrigerators, sinks, furnaces and stoves; and in cracks and crevices. For best results, locate and treat nests. Outdoors, apply as a crack-and-crevice, spot, or perimeter barrier treatment; also see **Outdoor Pests**.

Bed Bugs

Apply a 0.13% dilution as a spot, crack-and-crevice, or void treatment to harborage areas. Example harborages include voids behind [attached] headboards, baseboards, moldings, doorframes, window frames, and shelving; behind mirrors and picture frames; and around edges of carpet or other floor coverings. Apply only to areas where prolonged contact by humans or pets will not occur. **Do not use on bed linens, bed frames, mattresses, box springs, or other areas where human contact is common.**

Crawling Insects (Beetles, Clover Mites, Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, and Spiders)

Apply a 0.065%-0.13% dilution as a spot, crack-and-crevice, and/or void treatment to areas where these pests hide, such as baseboards; corners; storage areas; closets; around water pipes, doors, and windows; attics and eaves; cabinets; behind and under refrigerators or other household items such as furniture, sinks, furnaces, and stoves; and to the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.

Flying Insects (Flies, Mosquitoes, and Wasps)

Derby may be applied as a spot or crack-and-crevice treatment directly into cracks and crevices or other non-exposure areas as a low-pressure spray using equipment capable of delivering a pin stream of insecticide inside residential buildings (in attics, crawl spaces, and other non-living spaces), as well as in and around carports, garages, and storage sheds; also see **Outdoor Pests** for specified rates. Do not make surface applications to living spaces. For wasps, hornets, and yellow jackets, see section on **Control of Yellow Jackets, Hornets, and Wasps**.

Occasional Invaders (Boxelder Bugs, Centipedes, Millipedes, Multicolored Asian Lady Beetles, Pillbugs, Scorpions, Sowbugs, and Stink Bugs)

Apply a 0.065%-0.13% dilution as a spot, crack-and-crevice, and/or void treatment around doors and windows, baseboards and other places where these pests may be found or where they may enter premises. Apply outdoor treatments to prevent infestation as described below; also see **Outdoor Pests – Perimeter Treatments around Structures**.

Pantry Pests (i.e., Carpet beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Saw-toothed grain beetle)

Apply a 0.065%-0.13% dilution as a spot or crack-and-crevice treatment to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.

Application within Food-Handling Establishments (places other than private residences in which exposed food is held, processed, prepared, or served, including, but not limited to, areas for receiving, storing, packing (canning, bottling, wrapping, boxing), and preparing foods; edible waste storage; enclosed processing systems (mills, dairies, edible oils syrups); and serving areas.)

Use as a crack-and-crevice, spot, or void treatment in and around both food and non-food areas. Apply a 0.065%-0.13% dilution in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide; in points between different elements of construction; between equipment and floor; in openings leading to voids; and in hollow spaces in walls, equipment, and bases. Clean food-contact surfaces and equipment with an effective cleaning compound and rinse with potable water before cleaning.

Limit spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments should not exceed 2 sq ft. Take extreme care that the product is not introduced into the air.

Do not contaminate food and food-processing surfaces. **Do not** treat surfaces likely to be contacted by food. **Do not** apply when food-handling establishments are in operation or foods are exposed. Food must be removed from area being treated. **Do not** apply directly to food or allow applications to contaminate food.

Application within Food-Serving Areas (facilities where foods are served, such as dining rooms)

Apply a 0.065%-0.13% dilution as a crack-and-crevice, spot, or void treatment to selected surfaces such as under elements of construction and into cracks and crevices. **Do not** treat surfaces likely to be contacted by food. **Do not** apply when facility is in operation or foods are exposed. Food must be covered or removed from area being treated. **Do not** apply directly to food or allow applications to contaminate food.

Application of this product in the food areas and/or food-serving areas of food-handling establishments, other than as spot, crack-and-crevice, or void treatment, is not permitted.

OUTDOOR PESTS

To control ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, pillbugs, scorpions, sowbugs, spiders, stink bugs, ticks, wasps, and other similar perimeter arthropod pests, apply Derby at the rate specified for that particular pest (Table 3)with either hand or power application equipment as a residual treatment around buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, refuse dumps, and other similar areas where these insect pests are active. Apply a treatment volume of 1-10 gal/1000 sq ft (approximately 44-440 gal/A) unless specified otherwise.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- Applications to soil or vegetation around structures;
- Applications to lawns, turf, and other vegetation;
- Applications to building foundations, up to a maximum height of 3 feet above grade;
- Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
- Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
- Applications made through the use of a coarse, low-pressure spray to only those
 portions of surfaces that are directly above bare soil, lawn, turf, mulch or other
 vegetation, as listed on this label, and not over an impervious surface, drainage or
 other condition that could result in runoff into storm drains, drainage ditches, gutters,
 or surface waters, in order to control occasional invaders or aggregating pests.

Do not apply to or allow this product to contact plants in bloom or apply if bees are foraging in or adjacent to the treatment area.

Ants

Apply a 0.065%-0.13% dilution of Derby as a spot, crack-and-crevice, pin-stream, or perimeter-banded treatment to ant trails and potential entry points such as around doors or windows. As a banded application, apply according to instructions on perimeter treatments below.

Derby contains thiamethoxam, a plant-systemic insecticide that can reduce populations of plant-feeding insects, such as aphids, mealybugs, and whiteflies. Control of these insects can reduce the amount of honeydew, a food source for ants foraging in and around structures. To reduce populations of honeydew-producing insects, apply Derby at up to 0.13% as a foliar spray or directed treatment to soil at the base of the landscape plants. When targeting landscape ornamental pests, see directions for use in the **Application to Ornamentals** section.

Derby

Fleas and Ticks

To control nuisance fleas and ticks (e.g., dog ticks), apply to kennels, yards, runs, and other areas where pets may frequent. For best coverage to control ticks, apply using a coarse fan spray to vegetation brush, branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Apply a dilution of 0.065%-0.13% to control ticks. To control fleas, apply only at the highest concentration of 0.13%. Apply a spray volume of 2-10 gal/1,000 sq ft to thoroughly wet the treated surface; use a higher volume when treating landscaping materials, such as mulch or stone, or under dense vegetation in order to obtain the coverage needed for best control.

Do not apply to pasture or cropland, and **do not** allow animals and people access to treated areas until the spray deposit has dried. Applications can be made on a monthly basis, beginning in the spring, and can continue until frost to control both larvae and adult ticks. **Do not** apply directly to pets.

House Flies and Cluster Flies

Apply a 0.065%-0.13% dilution as a spray or low-volume mist to outdoor surfaces of structures, patios, fences, or other areas where flies are likely to collect or rest, or to areas of structures that serve as entry points (doors, windows, under eaves). Applications under eaves may be made as a surface spray.

For cluster flies, use spot treatments around entry points or fly resting areas of structural surfaces, paying particular attention to south-facing surfaces. In winter and spring, when flies become active and are emerging, interior crack-and-crevice, spot, and void treatments can help reduce the infestation in areas such as attics, crawl spaces, or indoor non-living spaces.

Mosquitoes

For adult mosquito control, apply a 0.065%-0.13% dilution as a structural perimeter spray or spot treatment to landscape plantings and turf, around buildings and foundations, under decks, or to other areas that that are likely to serve as adult mosquito resting areas. Yards or other frequented areas enclosed by landscaping can benefit from a banded treatment to reduce invading adult mosquitoes by the treatment of perimeter vegetation. Apply Derby at specified rates at 2–5 gallons of water per 1,000 sq ft (87-218 gal/A). Low-volume mist blowers may be used as well. Application to vegetation away from structures may require additional state certifications, e.g., in turf or ornamental categories. Consult your state regulatory agency for requirements.

Occasional Invaders and Aggregating Pests (Beetles, Boxelder bugs, Centipedes, Clover mites, Crickets, Earwigs, Grasshoppers, Scorpions, Silverfish, Spiders, Springtils, Sowbugs, and Stink bugs)

Apply a 0.065%-0.13% dilution in a spray volume of 1-10 gal/1,000 sq ft to outdoor structural surfaces where insects are found and around likely entry points such as doors, windows, and utility penetrations. Banded applications as described in the **Outdoor Pests -- Perimeter Treatments around Structures** section can provide additional protection against these pests entering the structure.

CONTROL OF YELLOW JACKETS, HORNETS, AND WASPS (LOCALIZED TREATMENT)

Use caution when treating nests of stinging insects as Derby does not provide instant knockdown. Protective equipment for the applicator may be required to reduce the risk of insect stings during application. The use of an extension wand is recommended when applying the liquid or foam to nests to reduce the risk of being stung. For best results, treat nests in the evening when most insects will be present.

For control of ground-nesting yellow jacket wasps, make an application of 0.13% liquid or finished foam into the below-ground nest. Apply a sufficient amount of liquid or foam to fill the nest and coat the opening to the nest. The use of an extension wand is recommended when applying to reduce the risk of being stung.

For application to paper-covered wasp nests (e.g., bald-faced hornets), apply a 0.13% dilution of Derby as a finished foam or as a spray into the opening of the nest. Apply a sufficient amount of foam to fill the nest without allowing runoff. As a spray, apply product to the entire outside surface of the nest as well as the nest opening. The use of an extension wand is recommended when applying the foam to reduce the risk of being stung.

For visible wasp nests, spray the outside of the nest with a 0.13% dilution. Apply spray to the entire surface of the nest. For wasp nests within voids such as under soffits and behind rain gutters, make an application of 0.13% liquid or foam into the nesting area. Apply a sufficient amount of foam to fill the nesting void.

Do not allow this product to contact plants in bloom if bees are foraging in or adjacent to the treatment area.

OUTDOOR PESTS – PERIMETER TREATMENTS AROUND STRUCTURES

Applying a continuous band of insecticide around a building foundation and around windows, doors, service line entrances, eaves, vents, and other areas can greatly reduce the potential for entry by crawling pests. For best results, before application, remove debris and leaf litter from next to the foundation; cut back vegetation and branches that touch the foundation, walls, or roof; and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation.

Apply Derby in a volume of 1-10 gallons per 1,000 sq ft or 44-440 gal/A around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 feet and spot treatments around windows, doors, and roof overhangs. The amount of Derby to be diluted in water will depend upon the pest species, the infestation level, and the service interval desired (see TABLE 3 for application rates). Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

Agitate occasionally during application.

TABLE 4: Dilutions for Structural Perimeter Applications

Application Rate	Application Volume (gallons of solution	Amount of Derby to Dilute in Water According Spray Tank Volumes		•
(amount of Derby per 1,000 sq ft)	per 1,000 sq ft)	10 gallons	25 gallons	50 gallons
0.55 fl oz (16 ml)	1	5.5 fl oz (163 ml)	13.8 fl oz (408 ml)	27.5 fl oz (813 ml)
	2	2.8 fl oz (83 ml)	6.9 fl oz (204 ml)	13.8 fl oz (408 ml)
	5	1.1 fl oz (33 ml)	2.8 fl oz (83 ml)	5.5 fl oz (163 ml)
	10	0.55 fl oz (16 ml)	1.4 fl oz (41 ml)	2.8 fl oz (83 ml)
1.1 fl oz (32 ml)	1	11.0 fl oz (325 ml)	27.5 fl oz (813 ml)	55 fl oz (1,627 ml)
	2	5.5 fl oz (163 ml)	13.8 fl oz (408 ml)	27.5 fl oz (813 ml)
	5	2.2 fl oz (65 ml)	5.5 fl oz (163 ml)	11.0 fl oz (325 ml)
	10	1.1 fl oz (33 ml)	2.8 fl oz (83 ml)	5.5 fl oz (163 ml)

CONTROL OF WOOD-DESTROYING INSECTS

Use Derby to control the following wood-destroying insects. For specific application instructions, refer to label text.

TABLE 5: Wood-destroying Pests

Pests	Application Method	Concentration of Combined Active Ingredients in Final	Comments
Carpenter Ants ¹	Remedial Control:	0.13%	Re-treat as
Compositor Doco	Liquid or foam – Gallery	Min. 4. 4. fl. a = (20 mal)	directed.
Carpenter Bees	treatment	Mix 1.1 fl oz (32 ml) Derby per gallon	
Drywood Termites	Preventive treatment: Wood Surface Spray	of water.	
Wood-Destroying Beetles and Borers			

¹ Carpenter ants may be controlled at a lower rate of 0.065%; rates of 0.065% to 0.13% may be used per instructions under **Control of Carpenter Ants** section.

Control of Drywood Termites

When used as specified in this label, Derby provides effective remedial control of localized infestations of drywood termites, including species of *Incisitermes*, *Cryptotermes*, and *Marginitermes*. Knowledge of the biology and behavior of the drywood termite species involved, the locations, and the extent of the infestation(s) will help to ensure successful control.

Treatment requirements for drywood termite control may vary due to state and local regulations. For advice concerning current drywood termite control regulations under local conditions, consult your State structural pest control regulatory agency.

Directions for Remedial Control of Drywood Termites in Infested Wood

To control drywood termites in localized areas of infested wood in structures, apply 0.13% Derby as a liquid or foam to voids and galleries in damaged wood, in spaces between wooden structural members, or between wood and foundations. Locate galleries by using visual signs (e.g., fresh fecal pellets or blistered wood), the presence of live termites, mechanical sounding techniques (e.g., tapping on the wood surface and listening for changes in sound to indicate changes in wood density), listening devices, motion detection devices, or other technologies that help pinpoint drywood termite activity.

Wood Injection Method

Drill small diameter holes of appropriate size for the injection tip or use a self-puncturing tip positioned to intersect termite galleries within infested wood. Drywood termite emergence or pellet kick-out holes connect directly to galleries and are indicators of potential sites to drill and inject Derby. Care should be taken to avoid electrical wiring, plumbing, etc. when drilling and injecting. Do not drill or puncture completely through wood. Spacing of the holes will depend on the distribution of insect activity and galleries. Injection holes may be clustered in areas with insect activity as indicated by damage, live insects, or other indicators previously described. Injection holes on opposite sides of large (4 in. x 10 in. or larger) structural beams may be necessary to effectively penetrate galleries.

Apply up to 50 ml (1.7 fl oz) of 0.13% dilutionat each injection hole. If using Derby as a foam preparation, inject a sufficient amount to fill galleries without allowing runoff.

Re-apply if insect activity within treated areas is detected four or more weeks following treatment. For best results in treating galleries, inject Derby into new injection holes positioned between previous injection sites.

Wood Surface Treatment

Surface applications may also be used to supplement spot treatment for drywood termites as a means to prevent re-infestation by swarming adult termites. Apply a 0.13% dilution as a surface spray or mist to exposed wood surfaces in areas not used as living spaces, such as attics, crawl spaces, unfinished basements, or structural voids. Apply treatment until surface is thoroughly wetted.

Derby

Control of Carpenter Ants

Apply a 0.065%-0.13 dilution to ant trails around doors and windows and other places where ants may be found. Indoors, apply as a residual surface treatment to active areas such as baseboards; corners; around pipes; in and behind cabinets; behind and under refrigerators, sinks, furnaces, and stoves; and in cracks and crevices. For best results, locate and treat nests. Outdoors, apply as a crack-and-crevice, spot, or banded treatment; also see **Outdoor Pests**.

Inside voids where ants or nests occur, drill (or use existing opening) and inject spray or foam into the cavity. Inside decking materials or other structural materials, poles, or trees infested with carpenter ants, drill and inject spray or foam into cavities. Apply up to 50 ml (1.7 fl oz) of 0.065%-0.13% dilution at each injection hole. If using Derby as a foam preparation, inject a sufficient amount to cover the area without allowing runoff.

Control of Carpenter Bees (localized treatment)

Gallery Treatment

Apply a 0.13% dilution of Derby into carpenter bee galleries as a spray, mist, or foam application. As a liquid, apply up to 50 ml (1.7 fl oz) of finished solution of Derby at each injection hole. If using Derby as a foam preparation, inject a sufficient amount to fill galleries without allowing runoff.

Wood Surface Treatment

Apply coarse spray as a spot treatment to thoroughly wet wood surfaces where bees have been previously active or to provide protection against further damage. Apply early in the spring to prevent bees from invading wood. When bees have infested wood, surface applications can help control embedded larvae and bees that emerge from the wood. Applications can be made on a monthly basis to maintain protection of treated areas.

Control of Wood-Destroying Beetles and Borers

For control of wood-destroying beetles or borers, including old house borers, powderpost beetles, false powderpost beetles, death-watch beetles, and ambrosia or bark beetles. Apply Derby diluted to 0.13% as a spray, mist, or foam to galleries, in structural voids, and/or as wood surface treatments.

- For old house borers, or other beetles that form large galleries, treat the gallery system by drilling and injecting product with sufficient volume to cover the galleries.
- For beetles or borers that do not form galleries which can be readily injected (e.g., powderpost beetles), apply product as a liquid, mist, or foam to exposed wooden surfaces in non-living space areas in crawlspaces, basements, and attics; to structural voids; to spaces between wood elements of a structure; or at joints between wood and foundations.

Apply as a coarse liquid spray with low pressure (<25 psi), as a foam or mist application, or by brushing diluted product onto the surface. Applications should be made in sufficient volumes to coat the target surface, but less than the volume that

creates runoff. Re-treat as needed to maintain protection. Allow treated surfaces to dry before contacting them.

STORAGE AND DISPOSAL

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

Pesticide Storage

Keep container closed when not in use. Do not store near food or feed. Shake well before use. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste storage area until proper disposal can be made.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Handling [less than or equal to 5 gallons]

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. 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, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons]

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. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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