



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

82074-12

Date of Issuance:

4/15/16

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

**BIOGARD PYRETHRUM DUST  
1.0**

Name and Address of Registrant (include ZIP Code):

Janice E. Asato  
Technology Sciences Group Inc. (TSG)  
1150 18<sup>th</sup> Street, NW, Suite 1000  
Washington, DC 20036

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered 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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Kable Bo Davis, Product Manager 3  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)

Date:

4/15/16

2. You are required to comply with the data requirements described in the DCI Orders identified below:
  - a. Pyrethrins GDCI-069001-1290
  - b. Pyrethrins GDCI-069001-27992

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Orders listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation

Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 82074-12.”
5. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated 03/31/2016

If you have any questions, you may contact Julie Breeden at 703-347-0511 or via email at [Breeden.Julie@epa.gov](mailto:Breeden.Julie@epa.gov).

Enclosure

# BIOGARD Pyrethrum Dust 1.0

**ACTIVE INGREDIENT:**

Pyrethrins.....1.00%  
OTHER INGREDIENTS ..... 99.00%  
Total.....100.00%

Contains 0.01 lbs active ingredient per pound of BIOGARD Pyrethrum Dust 1.0

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**FIRST AID**

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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-740-8712.

**LAM INTERNATIONAL CORPORATION**

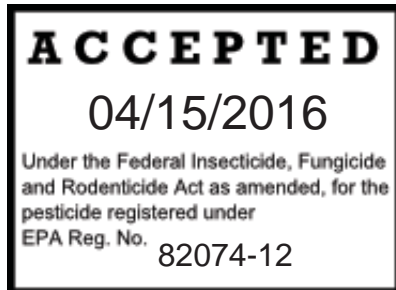
117 S. Parkmont; P.O. Box 4109-Butte, MT 59702; Ph: (406)782-2386; Fax: (406)782-9912  
EPA Reg. No. (Pending as File Symbol 82074-RE) EPA Est. Number 65626-MT-02

Edition:

Lot No.:

Net Contents:

Expiration Date:



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and waterproof gloves. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeved shirt
- Long pants
- Shoes and socks
- Chemical resistant gloves made of any waterproof material.

**USER SAFETY REQUIREMENTS**

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's

**USER SAFETY RECOMMENDATIONS**

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift into blooming crops or weeds while bees are foraging the treatment area.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use near heat or open flame.

**DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or Tribe, consult the State or Tribal Agency responsible for pesticide regulation.

## READ ENTIRE LABEL BEFORE EACH USE

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

PPE required for early entry to treated areas (that is permitted under Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water), is:

- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Chemical-resistant gloves made of any waterproof material.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR, Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter until dusts have settled.

### USE RESTRICTIONS

- Apply this product only as specified on the label.
- Aerial applications are prohibited.
- Do not allow contamination of food and feedstuffs.
- In indoor residential areas or other areas where children may come into contact, only apply as a crack-and-crevice or as a spot treatment to areas no greater than 3 feet by 3 feet per room.
- Applications with power duster equipment are prohibited.
- Do not enter or allow others to enter until dusts have settled.
- Do not apply this product in a way that will contact workers or other persons, either directly or indirectly through drift.
- Only protected handlers may enter treated area during application.
- Do not allow adults, children or pets to enter the treated area until dusts have settled.
- For use outdoors, do not apply directly to or near water, storm drains or drainage ditches. Do not apply when windy.
- Do not water the treated area to the point of runoff.
- Do not make applications during rain.
- Do not apply this product in a way that will contact adults, children or pets, either directly or indirectly through drift.
- Remove or cover exposed food and drinking water before application.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use. Do not use in serving areas while food is exposed.
- In Food Areas of Food Handling Establishments: Do not contaminate food or feedstuffs. During applications, cover or remove food. Cover food processing surfaces and equipment or clean after treatment with a suitable detergent and rinse with potable water before use. Do not use in serving areas (dining areas where prepared foods are served) while food is exposed or facility is in operation.
- In Schools, do not apply to classrooms when in use.
- Do not use in aircraft cabins.
- Remove pets, birds and cover fish aquariums before application.
- When used in dairy barns or facilities; close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- Except when applying to sewers or drains as instructed on this label, do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product any drain during or after application.

- Not for use on commercial sod farms.

**USE RESTRICTIONS IN FOOD HANDLING AREAS:**

- Do not apply when food or feed processing facility is in operation or foods are exposed.
- APPLICATIONS OF THIS PRODUCT IN FOOD/FEED AREAS OF FOOD/FEED HANDLING ESTABLISHMENTS ARE NOT PERMITTED, *OTHER THAN AS A CRACK-AND-CREVICE TREATMENT.*

**TO KILL THE FOLLOWING INSECTS:** Adelgids, Alfalfa Weevil, Almond Moth, American Black Flour Beetle, Angoumois Grain Moths, Ants, Aphids, Apple Maggots, Armyworms, Asian Cerambycid Beetle, Asian Lady Beetle, Asian Pine Tip Moths, Bagworms, Barn Flies, Bat Bugs, Bean Beetles, Bean Weevils, Bed Bugs, Bees, Beet Armyworms, Beetles, Birch Leafminer, Black Carpet Beetles, Black Fungus Beetles, Black Turpentine Beetles, Black Vine Weevil, Blacklegged Tick Nymphs, Blister Beetles, Blow Flies, Booklice, Bottle Flies, Box Elder Bugs, Broad horned Flour Beetles, Broad nosed Grain Weevils, Brown Spider Beetles, Brown Spruce Longhorn Beetle, Budworms, Cadelle Beetles, California Oakworm, Cankerworms, Carpet Beetles, Carrion Beetles, Carrot Weevils, Caterpillars, Castorama Beetles Centipedes, Cereal Beetles, Cheese Mites, Cheese Skippers, Chicken Mites, Chocolate Moths, Chrysanthemum Leaf Miners, Cicadas, Cigarette Beetle, Clearwing borer, Clothes Moths, Clover Mites, Clover Weevils, Cluster Flies, Cocoa Bean Weevil, Coffee Bean Weevil, Cone Beetles, Cone Worms, Confused Flour Beetle, Conifer Spider Mite (Adult), Corn Sap Beetles, Cottonwood Borer, Cottonwood Leaf Beetles, Cranberry Girdlers, Crane Flies, Crickets, Cross-striped Cabbageworm, Cucumber Beetles, Cutworms (exposed), Dark Mealworms, Darkling Beetles (lesser meal worm), Dermestid Beetles, Diamondback Larvae, Dingy Cutworm Adult, Douglas Fir Midge, Douglas Fir Tussock Moth, Drain Flies, Dried Fruit Beetles, Drugstore Beetles, Earwigs, Eastern Tent Caterpillars, Elm Leaf Beetles, Emerald Ash Borer, European Grain Moth, European Pines Shoot Moth, European Pine Tip Moths, Face Flies, Fall Cankerworms, Fall Webworm, Fannia Flies, Field Crickets, Firebrats, Fire worms, Flat Grain Beetles, Flea Beetles, Fleas, Flies, Flying Moths, Foreign Grain Beetles, Forest Tent Caterpillars, Fruit Flies, Fruit tree Leafrollers, Fungus Beetles, Fungus Gnats, German Cockroaches, Giant Root Aphid, Glassy Winged Sharpshooters, Grain Mites, Granary Insects, Granary Weevils, Grape Leaf Skeletonizers, Grape Leafhoppers, Grasshoppers, Green Fruit Worms, Green Peach Aphids, Greenhouse Thrips, Ground Beetles, Gypsy Moths (adults & larvae), Hairy Fungus Beetles, Hairy Spider Beetles, Harlequin Bugs, Heliothis spp, Hessian Fly (adult) Hide Beetles, Hornworms, Inchworm, Indian Meal Moth, Iris Borer, Japanese Beetle, Katydid, Khapra Beetles, Lace Bugs, Large Black Flower Beetles, Leafhoppers, Leafminers, Leafrollers, Leaf-tiers, Lesser Grain Beetle, Lesser Grain Borers, Lesser Meal Worm, Lesser Peach Tree Borer, Longheaded Flour Beetle, Loopers, Lygus Bugs, Maize Weevils, Mealy Bugs, Mediterranean Flour Moths, Merchant Grain Beetle, Mexican Bean Beetles, Mexican Grain Beetles, Millers, Millipedes, Mimosa Webworm, Mole Crickets, Moth Flies, Murmidius Beetles, Mushroom Flies, Nantucket Pine Tip Moth, Northern Fowl Mites, Onion Maggots, Palmetto Bug, Peach Twig Borer, Pear Psylla, Pill Bugs, Pine Bark Beetles, Pine Engraver, Pink Scavenger Caterpillars, Pinworms, Plant Bugs, Plum Curculio Ponderosa Pine Needle Miner, Poultry Lice, Powder Post Beetles, Psocids, Psyllids, Red Flour Beetles, Red Gum Lerp Psyllid, Red Honed Grain Beetles, Red Lily Beetles, Red Oak Borer, Red-banded Leafroller, Rice Flour Beetles, Rice Moth, Rice Weevils, Root Weevils, Rose Chafer, Royal Palm Bugs, Rusty Grain Beetles, Saw Flies, Saw-Toothed Grain Beetles, Scale (crawlers), Seed bugs, Silverfish, Skipper Flies, Skippers, Slender-horned Flour Beetles, Small Flying Moths, Small Fruit Flies, Small-eyed Flour Beetle, Southern Pine Beetle, Southern Red Mite (adult), Sow bugs, Spider Beetles, Spider Mites, Spruce Mite (adult), Square-necked Grain Beetle, Stable Flies, Stalk Borers, Stink Bugs, Stored Product Pests, Subtropical Pine Tip Moth, Sycamore Leaf Beetle, Tarnished Plant Bugs, Tent Caterpillar, Thrips, Tobacco Moths, Trogoderma Beetles, Two-banded Beetles, Vegetable Leaf Miners, Vinegar Flies, Warehouse Beetles, Wasps [Yellow Jackets, Hornets, and Paper Wasps] Waterbugs, Webworms, Weevils, Western Pine Tip Moth, White Apple Leafroller, White Marked Spider Beetles, Whiteflies, Wireworms and Yellow Mealworms.

**Application Methods:** Apply BIOGARD® Pyrethrum Dust 1.0 using a non-power dust applicator, a shaker can, dust gun, puffer or other bulbous duster, hand pump duster, hand-operated rotary duster, static charge duster, or other appropriate hand-operated duster.

**INDOOR AREAS: FOR USE IN AND AROUND:**

Animal Areas and Quarters, Apartments, Arcades, Asian Markets, Attics, Bakeries, Barns, Basements, Beef Barns, Beverage Plants, Bins, Bottling Plants, Brandy Storage Warehouses, Breweries, Brewery Warehouses, Buildings Housing Animals, Buildings Housing Poultry, Cabinets, Cafeterias, Calving Barns, Canneries, Cat Sleeping Quarters, Cattle Barns, Certified Organic Facilities, Cheese Caves, Citrus Packing Houses, Coffee Houses, Coffee Shops, Commercial Buildings, Condominiums, Convenience Stores, Crawl Spaces, Dairies, Dairy and Livestock Barns, Dairy Food Processing, Day Care Centers, Delicatessens, Department Stores, Diners, Distilleries, Dog Houses, Dog Sleeping Quarters, Drains & Sewers, Dried Flower House, Dried Food Products in Processing, Dried Food Products in Storage, Dried Fruit Processing Plants,



Dried Food Warehouses, Dumpsters Dwellings, Egg Processing Plants, Egg Storage Facilities, Factories, False Ceilings, Farm Structures, Feed Mills, Flour Mills, Food Handling Establishments, Food Preparation Facilities, Food Processing Facilities, Food Quarantine Areas, Food Service Facilities, Food Storage Facilities, Freight Containers, Fruit Packing Sheds, Fruit Processing Facilities, Fruit Quarantine Areas, Fruit Storage Warehouses, Garbage Bins, Garbage Cans, Garbage Compactors, Garbage Trucks, Goat Holding Areas, Goat Houses, Grain Elevators, Grain Harvesting Equipment, Grain Handling Equipment, Grain Mills, Grain Storage, Granaries, Greenhouses, Grocery Stores, Hog Barns, Homes, Horse Stables, Horse Stables and Barns, Horse Trailers, Hospitals, Hotels, Houses, Indoor Eating Facilities, Industrial Installations, Industrial Plants, Institution Dining Areas, Institutions, Kennels, Liveries, Livestock Barns, Livestock Hauling Equipment, Livestock Holding Areas, Loafing Sheds, Meat Markets, Meat Packaging Plants, Meat Packing Plants, Mess Halls, Milk Houses, Milking Processing Facilities, Milk Room, Milk Sheds, Milking Rooms, Mills, Motels, Mushroom Caves, Mushroom Processing Plants, Office Buildings, Other Public Buildings, Packaged Food Storage, Pantries, Peanut Processing Plants, Peanut Warehouses, Pet Bedding, Pet Carriers, Pet Food Plants, Pet Sleeping Areas, Poultry Houses, Poultry Processing Plants, Rabbit Houses, Rabbit Processing Plants, Railroad Cars, Research Animal Areas, Restaurants, Rice Mills, Schools, Seed Storage, Shade Houses, Sheep Holding Areas, Ship Holds, Ships, Spice Markets, Stable Bins, Stables, Storage Bins (areas), Storages, Stored Product Areas, Stored Seed Warehouses, Stores, Supermarkets, Swine Houses, Taverns, Tea Houses, Textile Mills, Tobacco Factories, Tobacco Warehouses, Tool Sheds, Trains, Transportation Equipment (except aircraft), Truck Trailers, Vegetable Packing Facilities, Vegetable Processing Facilities, Vegetable Storage Facilities, Veterinary Clinics, Veterinary Hospitals, Voids in Attics, Wall Voids, Warehouses, Wheat Mills, Wholesale Stores, Wine Cellars, Wine Storage Warehouses, Wine Tasting Rooms, Wineries, Zoos.

**APPLICATIONS WITHIN FOOD HANDLING ESTABLISHMENTS:**

**Food and/or Feed areas** include areas for receiving, storage (dry, cold, frozen or raw), packaging (canning, bottling, wrapping, boxing and grinding), preparing, edible waste storage and enclosed processing systems (mills, dairies, and systems for processing edible oils and syrups). Serving areas are places where prepared foods are served.

<b>FOOD HANDLING ESTABLISHMENTS</b>	
<b>Application Type</b>	<b>Application Rate</b>
Crack and Crevice Food/Feed Areas of Food/Feed Handling Establishments	1.5 oz. / 50 sq. ft.
Crack and Crevice Stored Product Pests in Non-Food/Non-Feed Areas of Food Handling Establishments	1.0 oz. / 50 sq. ft.
Crack and Crevice Treatments in Storage Sites	1.0 oz. / 50 sq. ft.

Using a non-power duster, apply directly into cracks and crevices, in expansion joints between different elements of construction, under or between equipment bases and the floor, beneath appliances, into wall voids, motor housing, junction boxes or switch boxes, conduits, behind and under cabinets or drawers, in and around drains, around drain pipes, plumbing and utility entrances, hollow equipment legs and other sites where listed insects can enter or hide.

**Stored Product Pests in Non-Food/Non-Feed areas of Food Handling Establishments:**

Non-food/feed areas of food/feed handling establishments are garbage rooms, lavatories, floor drains (to sewers, entries and vestibules), offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

To aid in the kill of stored product pests in listed areas, apply BIOGARD® Pyrethrum Dust 1.0 at the specified rate. Clean up waste materials, infested materials, dust, dirt, and any other debris. Thoroughly treat floors, walls, shelves, drawers, cabinets and other surfaces in bins, storage and handling areas, around cartons or containers and other areas where these insects tend to congregate. Apply into cracks and crevices and other difficult-to-reach areas where insects may hide. Apply in voids or cracks and crevices in pantries and other infested areas within the structure.

**For Use in Storage Sites:**

This product can be used in warehouse bins, trucks, cargo ships, mills, bin hoppers, elevators and conveying equipment, and other listed sites as a cleanup prior to using them for storage. Remove and dispose of all of the infested stored commodity accumulations and debris, with special attention to material lodged in the cracks and crevices. After sanitation measures have been employed, dust areas prior to use for storage, paying particular attention to cracks and crevices.

For packaged food warehouses, treat potential points of insect entry, as well as harborage sites in, on and around wooden and plastic pallets, pallet-racking systems, loading docks, scales, around cartons.

**INDOOR TREATMENTS:**

IN INDOOR RESIDENTIAL AREAS OR OTHER AREAS WHERE CHILDREN MAY COME INTO CONTACT, ONLY APPLY AS A CRACK-AND-CREVICE OR AS A SPOT TREATMENT TO AREAS NO GREATER THAN 3 FEET BY 3 FEET PER ROOM.

<b>APPLICATION RATES FOR INDOOR TREATMENTS</b>		
<b>Application Type</b>	<b>Application rates for Residential areas such as homes, condominiums, apartments, hotels, motels and pet areas</b>	<b>Application rates for Non-Residential areas such as offices, warehouses, hospitals and other commercial buildings and institutions</b>
Listed Crawling Insects—Crack and Crevice	Apply as a crack-and-crevice treatment to areas no greater than 3 x 3 feet per room.	1.5 oz. / 50 sq. ft.
Bed Bugs—Crack and Crevice	Apply as a crack-and-crevice treatment to areas no greater than 3 x 3 feet per room.	2.0 oz. / 50 sq. ft.
Ants—Crack and Crevice	Apply as a crack and crevice treatment to areas no greater than 3 x 3 feet per room.	1.0 oz. / 50 sq. ft.
Listed Crawling Insects for Severe Infestations—Spot Treatments	Apply as a crack and crevice or as a spot treatment to areas no greater than 3 x 3 feet per room.	16 to 20 oz. / 1,000 sq. ft.
Fleas, Ticks and Mites in Areas where Pets Frequent—Spot Treatments	Apply as a spot treatment to areas no greater than 3 x 3 feet per room.	1.0 oz. / 70 sq. ft.
Powder Post Beetles –Spot Treatments	Apply as a spot treatment to areas no greater than 3 x 3 feet per room.	16 to 20 oz. / 1,000 sq. ft.
Asian Lady Bird Beetles and Box Elder Bugs in Crawl Spaces and Attics—Crack and Crevice	Apply as a spot treatment to areas no greater than 3 x 3 feet per room.	1 oz. / 50 sq. ft.
Asian Lady Bird Beetles and Box Elder Bugs in Crawl Spaces and Attics—Spot Treatments	Apply as a spot treatment to areas no greater than 3 x 3 feet per room.	16 to 24 oz. / 1,000 sq. ft.
Ornamental Plants	Apply to cover upper and lower surfaces of leaves, stems and flowers, with a thin even film of dust.	Apply to cover upper and lower surfaces of leaves, stems and flowers, with a thin even film of dust

**Listed Crawling Insects:**

Apply BIOGARD® Pyrethrum Dust 1.0 into voids, cracks and crevices or other places where insects are traveling or harboring. Apply a continuous visible film underneath and behind stairs, behind and beneath sinks, stoves, refrigerators and other appliances, around garbage cans, cabinets. Treat on, around and behind moldings, shelving, baseboards, doorsills, doorframes, floors, around drains, pipes and pipe openings, plumbing, bookcases, storage, utility installations and other areas where insects hide or travel. For severe infestations, apply behind cabinets and walls, in crawl spaces and attics at the specified rate.



### **Fleas, Ticks, and Mites:**

#### **DO NOT TREAT DOGS OR CATS WITH THIS PRODUCT.**

For Fleas, apply BIOGARD® Pyrethrum Dust 1.0 only as a direct treatment. Treat on and around animal bedding, sleeping quarters, kennel, furniture, floor and floor coverings and all areas where these pests inhabit. Treat cracks and crevices behind and around window and door frames, wall cracks, moldings, shelving, baseboards, pipe openings and all other cracks. Treat the entire inside surface of doghouses. For Ticks, apply BIOGARD® Pyrethrum Dust 1.0 in places where the insects are traveling or harboring.

### **Bed Bugs:**

Thoroughly inspect area of suspected bed bug infestation, and note potential harborage sites or actual infestations. Remove and/or pick up clothing and other obstacles that may prevent thorough inspection or treatment. Remove and sanitize infested bedding (pillows and linens), clothing, or other items.

Take bed apart. Apply BIOGARD® Pyrethrum Dust 1.0 into joints and channels if hollow, such as square or round tubing, and into cracks and crevices on the interior of bed frame, headboards, and footboards. If hollow, ensure that the interior framework is well dusted. Wall-mounted headboards and their hardware should be removed and treated. Mattresses should be dusted, especially seams, edges, and tufts. Mattress treatments must be limited to seams, folds and edges only.

Bed bugs may also harbor in areas of the room away from the bed. Apply BIOGARD® Pyrethrum Dust 1.0 as a crack and crevice application where evidence of bed bugs occurs. All furniture and furniture accessories in the room must be treated, including inside empty drawers and shelving in clothes closets, night stands and other furniture in the room, carpet edges, high and low wall moldings (such as floor molding or window casings or ledges/sills), door jambs and hinges, wall voids, and behind wall hangings and mirrors. Pull carpeting from tack strip and treat under the baseboard, sill plate, and under the carpet tack strips. Remove all clothes and other articles from dressers or closets before application. Treat all cracks and crevices associated with light switches, wall plates, faceplates, outlet covers, mounting boxes and housings. Apply BIOGARD® Pyrethrum Dust 1.0 as a continuous fix to other potential harborage sites, such as table and wall-mounted lamps, wall crevices, drapery rods, curtains, blinds/mounting hardware, and other cracks and crevices in the room.

### **Ants:**

To aid in the kill of listed Ants, apply BIOGARD® Pyrethrum Dust 1.0 at the specified rate. Treat door frames, around window frames, behind, on and around moldings, cabinets, pipe openings, utility openings, shelves, ant trails, hills, wall voids, cracks and crevices and other points of entry into premises. Combine interior treatments with exterior perimeter application of BIOGARD® Pyrethrum Dust 1.0.

### **Powder Post Beetles\*:**

To aid in protecting against insect entry. Apply to distribute BIOGARD® Pyrethrum Dust 1.0 through insect entry points, crawl holes into attics and crawl spaces of buildings. Close all vents and blowers so that all target surfaces can be treated. Contact all wood surfaces. In case of localized infestations, probe to locate galleries and drill holes to inject BIOGARD® Pyrethrum Dust 1.0 into the galleries and void areas. If a heavy infestation is suspected, a conventional, industry accepted techniques and treatments should be employed.

\*The purpose of such applications of BIOGARD® Pyrethrum Dust 1.0 is to kill workers or winged reproductive forms that may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment, but are merely a supplement. This product is not for use against Termites. For active Termite infestations, use conventional, industry accepted techniques and treatments.

### **Asian Lady Beetles and Box Elder Bugs:**

To kill or repel these insects, as well as Clover Mites, Cluster Flies and Elm leaf Beetles, inject BIOGARD® Pyrethrum Dust 1.0 into cracks and crevices and/or voids where these insects may be entering the premise, harboring or hibernating. Apply in crawl spaces and attics. On building exterior, treat underneath wood fascia, behind siding, cracks around windows, doors, siding, wall voids, utility pipes and entry points, behind chimneys, around foundations and foundation cracks, patios and deck joints. When treating for Asian Lady Beetles, apply BIOGARD® Pyrethrum Dust 1.0 in, on and around areas with abrupt color contrasts on buildings (shutters, drainpipes, etc.), southwest-facing or sun-exposed sides of buildings, and vertical corners of buildings.

### **Ornamental Trees, Shrubs, Flowers and Foliage Plants:**

Including: African Violet, Ageratum, Andromeda, Arborvitae, Ash, Aster, Azalea, Beech, Begonia, Birch, Boxwood, Calceolaria, Calendula, Calla, Camellia, Carnation, Ceanothus, Chrysanthemum, Cineraria, Coleum, Cotoneaster,

Crabapple, Cyclamen, Cypress, Daffodil, Dahlia, Delphinium, Dogwood, Elm, Eucalyptus, Euonymus, Fern, Ficus, Fir, Firethorn, Foliage Plants, Forsythia, Fuchsia, Gardenia, Geranium, Gladiolus, Gloxinia, Gypsophila, Hawthorn, Hemlock, Hickory, Holly, Honey Locust, Horse Chestnut, Hyacinth, Hydrangea, Iris, Juniper, Larch, Laurel, Lilac, Lily, Linden, Maidenhair Fern, Marigold, Mimosa, Myrtle, Narcissus, Oak, Palm, Pansy, Pelargonium, Peony, Petunia, Philodendron, Phlox, Pine, Privet, Pyracantha, Rhododendron, Roses, Rubber Plant, Snapdragon, Sweet Pea, Tulip Tree, Tulips, Viburnum, Wandering Jew, Willow, Yew, Zinnia.

BIOGARD® Pyrethrum Dust 1.0 must come into contact with insects in order to kill them. Coverage of the target insect is vital to achieving good performance. Apply BIOGARD® Pyrethrum Dust 1.0 to cover upper and lower surfaces of leaves stems and flowers with a thin, even film of dust. Apply when insects or insect damage first appears.

When treating trees, shrubs and similar plants, treat the trunk, the base of the trunk and the critical root zone. Treat the tree crotch, knotholes, wounds and other areas where insects may harbor. Allow dust to settle in treated areas before reentering. Do not water or irrigate immediately following treatment. Do not eat or consume treated plants for 1 year after treatment.

**Phytotoxicity:**

Plant safety is an important consideration when using insecticides. It is not possible to evaluate the phytotoxicity of BIOGARD® Pyrethrum Dust 1.0 on numerous plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions. Before making widespread applications of BIOGARD® Pyrethrum Dust 1.0 treat a limited number of plants and observe for phytotoxicity over a 10-day period.

**Greenhouses:**

This product can be used in greenhouses to kill listed insects. Apply to cover upper and lower surfaces of leaves stems and flowers with a thin even film of dust. Apply BIOGARD® Pyrethrum Dust 1.0 to ornamental plants or only to fruit, vegetable and herb crops in the plug stage prior to transplant. Do not apply to fruit, vegetable, or herb crops that are ready for consumption.

**OUTDOOR AREAS for use in and around areas:**

Ant Mounds, Arboretums, Backyards, Balconies, Beneath Decks, Beneath Gazebos, Calf Hutches, Compost Sites, Courtyards, Decks, Dog Runs, Drive-In Restaurants, Drive-In Theaters, Dumpsters, Farmers Markets, Flea Markets, Front Yards, Gardens, Gazebos, Home Gardens, Kennels, Lanais, Landscapes, Lath Houses, Loading Docks, Lumber Storage Areas, Nurseries, Outdoor Eating Facilities, Patios, Porches, Sanitary Sewers (Manholes), Side Yards, Swine Yards and Wood Piles.

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<b>OUTDOOR APPLICATIONS</b>	
<b>Application Type</b>	<b>Application Rate</b>
Asian Lady Beetles and Box Elder Bugs – Perimeter Building Exterior	16 to 24 oz. / 1,000 sq. ft.
Ornamental Plants	Apply to cover upper and lower surfaces of leaves, stems and flowers, with a thin even film of dust.
Insects Harboring in Lawns, Landscaping and Backyards	Apply 8 to 24 oz. / 1,000 sq. ft.
Building Perimeter Treatments	Apply 16 to 24 oz. / 1,000 sq. ft.

**Building Perimeter Treatments:**

To aid in preventing entry and infestations of buildings by listed insects, apply BIOGARD® Pyrethrum Dust 1.0 to building exterior as a perimeter treatment in a band extending 12"-18" along and adjacent to foundation, and to a height of 2 to 3 feet up the side of the building where these pests are active and may find entrance.

**To Kill Listed Insects Harboring in Lawns, Landscaping, and Backyards:**

To aid in the kill of listed insects, apply BIOGARD® Pyrethrum Dust 1.0 at the specified rate. For best results, mow lawn one to two (1-2) days before applying, and remove clippings. Be sure to cover the entire lawn surface where insects are present, or normally frequent. Apply around the base of ornamental plants, shrubs and trees. Do not water or irrigate immediately following application. Keep pets and children out of the treated area until after the dust has settled.

**LIVESTOCK, DAIRY, SWINE, POULTRY AND OTHER ANIMAL BUILDINGS AND PREMISES:**

LIVESTOCK PREMISES	
Application Type	Application Rate
Crack and Crevice	1 oz. / 50 sq. ft.
Spot Treatments and Surface Treatments	16 to 24 oz. / 1,000 sq. ft.
Building Perimeter Treatments	16 to 24 oz. / 1,000 sq. ft.
Spot Treatments for Ticks	16 to 24 oz. / 1,000 sq. ft.

**Kills: Bed Bugs, Blacklegged Tick Nymphs, Chicken Mites, Deer Ticks, Face Flies, Fleas, Flies, Northern Fowl Mites, Poultry Lice and Stable Flies**

To aid in the kill of listed insects in listed indoor and outdoor animal areas, apply BIOGARD® Pyrethrum Dust 1.0 to cracks, crevices, voids, structural joints, floors, walls, wall joints, support beams, trusses, rafters, ceilings, around scales, chutes, gates, and other areas where insects harbor, alight, hide or travel. For Ticks, apply BIOGARD® Pyrethrum Dust 1.0 in areas where they like to harbor such as cracks and crevices.

Apply BIOGARD® Pyrethrum Dust 1.0 to exterior of livestock buildings in an 18" band along and adjacent to building foundations, and to a height of 2 to 3 feet up the side of the building where insects are active and may find entrance.

**LIVESTOCK ANIMAL USE:**

LIVESTOCK ANIMALS	
Application Type	Application Rate
Beef, Dairy Cattle, Horses	2 oz. dust per animal
Swine	1 oz. per head as a uniform coat to head, shoulders and back.
Poultry	1 lb. / 100 birds.

**Kills: Bed Bugs, Blacklegged Tick Nymphs, Chicken Mites, Deer Ticks, Face Flies, Fleas, Flies, Northern Fowl Mites, Poultry Lice and Stable Flies**

**Beef, Dairy, Cattle, Horses and other Livestock:**

Can be used in dust bags, shaker can and mechanical dust applicator to aid in the kill or repellency of listed livestock insects.

**Direct Application:** Apply 2 oz. of dust per animal by shaker can, or suitable mechanical dust applicator over the head, neck, shoulders, back and legs.

**Application through Dust Bags:** Place contents of this package in any commercially available dust bag, suspend bag in areas frequented by cattle or in gateways or lanes through which the animals must pass daily for water, feed or minerals. Bags may also be placed in loafing sheds or in front of mineral feeders. For dairy cows, bags may be suspended in the exit through which the cows leave the milking barn. Hang the bags 4 to 6 inches below the back line of the cattle. For reduction of Face Flies, bags must be located so animals will be forced to use them daily and hung at a height so that the face is dusted.

**Swine:**

**USE RESTRICTIONS FOR APPLICATION TO SWINE**

- Do not apply more often than once every 10 days
- Do not ship animals for slaughter within 5 days of treatment.

**Direct Application:** Apply only 1 oz. per head as a uniform coat to the head, shoulder and back by use of a shaker can or suitable mechanical dust applicator. In severe infestation, both animals and the bedding may be treated.

**Poultry:**

To kill listed livestock insects, apply at a rate of 1 lb. per 100 birds.

## **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:**

Keep this product in its tightly closed original container, when not in use. Do not store near heat or open flames. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals, and away from food and pet food.

**PESTICIDE DISPOSAL:**

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER HANDLING:**

Non refillable container. Do not reuse or refill this container. Completely empty container by shaking and tapping sides and bottom to loosen clinging particles promptly after emptying. Then offer for recycling if available or reconditioning, if appropriate or dispose of in a sanitary landfill or by other procedures approved by State and Local authorities.