


64321-10

2/10/2014

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 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)</p>	<p>EPA Reg. Number: 64321-10</p>	<p>Date of Issuance: FEB 10 2014</p>
	<p>Term of Issuance: Unconditional</p>	
	<p>Bio Kill® Extra GT Insecticide</p>	
<p>Name and Address of Registrant (include ZIP Code): Jesmond Holding Ag of Zug c/o Registrations by Design, Inc. P.O. Box 1019 Salem, VA 24153-1019</p>		
<p>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.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered//reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>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.</p> <p>This product is unconditionally registered in accordance with section 3(c)(5) of FIFRA provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration of your product under section 3(c)(5) of FIFRA when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under section 4 of FIFRA. 2. Submit within 12 months of the date of issuance of this Registration Notice, acceptable guideline studies for Storage Stability study (OPPTS GLN: 830.6317) and Corrosion Characteristics study (OPTS GLN: 830.6320) for this product. <p>(continued on page 2)</p>		
<p>Signature of Approving Official: See page 2 Michael Walsh, Acting Product Manager (13) Insecticide Branch, Registration Division (7504P)</p>	<p>Date: FEB 10 2014</p>	

3. Submit a validated enforcement analytical method (830.1800)

Change the product registration number to "EPA Reg. No. **64321-10**"

Enclosed is a copy of your label stamped with comments.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Submit two copies of your final printed labeling before you release the product for shipment.

If you have any questions, please contact Mr. Driss Benmhend, at (703) 308-9525 or via email at benmhend.driss@epa.gov.

Sincerely yours,



Michael Walsh
Acting Product Manager (13)
Insecticide Branch
Registration Division (7504P)

Enclosure: Label Stamped "with Comments"

3/14

BIO KILL® EXTRA GT INSECTICIDE

Optional Marketing Statement(s)

Use in, on and around buildings and structures for the control of listed pest.
 For Indoor and Outdoor Use
 Use in and around residential buildings, on lawns, ornamental trees and shrubs, and recreational areas.
 Use as a perimeter treatment around the home to kill (protect against) listed insects (pests).
 Kills (Controls) ants, cockroaches and other listed pests.
 Kills bedbugs!
 Kills On Contact – Keeps On Killing
 Kills[Controls] cockroaches, bed bugs, silverfish, ants, house flies and other listed insects up to 4 weeks[±]

Active Ingredients:

Lambda-cyhalothrin¹ (CAS #91465-08-6)..... 9%
 Prallethrin (CAS #23031-36-9)..... 1%

Other Ingredients: 90%

Total: 100%

¹Synthetic pyrethroid

**KEEP OUT OF REACH OF CHILDREN
 CAUTION**

See back/side/other panel(s) for additional Precautionary Statements & First Aid.

Net Contents _____

**ACCEPTED
 With COMMENTS
 In EPA Letter Dated:
 FEB 10 2014**
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act, As amended, for the
 pesticide Registered under EPA Reg. No:
64321-10

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 a poison control center or doctor. Do not give anything to an unconscious person.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
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 emergency information call (insert company emergency phone number) (the Poison Control Center at 800-222-1222).	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum or using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Environmental Hazards

This product is extremely toxic to fish and other aquatic organisms. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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

DIRECTIONS FOR USE

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

For residential use only.

RESTRICTIONS:

- **DO NOT** use this product with oil.
- **DO NOT** apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- **DO NOT** apply in conduits, motor housing, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.
- **DO NOT** apply in areas where animals are present in the facility. Allow treated surfaces to completely dry before restocking facility.
- **DO NOT** make applications to any animal feedstuffs, water, or watering equipment.
- **DO NOT** contaminate any animal food, feed, or water in and around livestock, poultry, or pet housing when making applications.

- **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** apply this product through any type or irrigation system.
- **DO NOT** apply this product to edible crops.
- 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** make outdoor broadcast applications to turf and ornamental when wind speed is 15 mph or greater.
- In the state of New York, **DO NOT** apply within 100 ft. of coastal marshes or streams that drain into coastal marshes.
- **Keep children and pets off treated areas and do not allow them to contact treated surfaces until spray has dried following application.**
- **DO NOT** apply to lawns or turfgrass when waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- **DO NOT** apply more than 0.36 lbs. of a.i. (52.4 fl. oz. of concentrate) per acre per year to outdoor lawns and turfgrass.
- **DO NOT** apply more than 52.4 fl. oz. of concentrate per acre per year [1.2 fl. oz. of concentrate per 1000 sq. ft. per year] to outdoor ornamentals.

PERIMETER PEST CONTROL

Bio Kill EXTRA GT is for use as a general surface (nonfood/nonfeed areas), crack and crevice, or spot treatment in, on, and around residential buildings and structures and their immediate surroundings, and vehicles. Areas of use include houses, apartment buildings, residential offices, hobby (non-commercial) greenhouses (non-commercial), closets, storage sheds, furnace rooms, garages, carports, cars, trucks, campers, non-commercial livestock/poultry housing, and pet kennels and bedding areas.

For indoor applications, **BIO KILL EXTRA GT** can be applied at 21-day intervals, if necessary. Applied as directed, BioKill Extra GT provides up to 4 weeks[‡] control of cockroaches, bedbugs, houseflies and other listed insects.

[‡]Up to 2 weeks control of cockroaches, silverfish and ants when applied to non-porous surfaces.

Mixing Instructions: Dilute **BIO KILL EXTRA GT** with water for application using hand-held pump- or power-operated application equipment [lawn and garden sprayer] capable of delivering a coarse spray for crack and crevice or spot and general surface (non-food/nonfeed areas only) treatments. Following the use rates in the table below, fill applicator tank with the water and add **BIO KILL EXTRA GT**. Close and shake before use in order to ensure proper mixing. Shake or reagitae applicator tank before use if applications is interrupted. Mix only amount of treatment volume as required. **BIO KILL EXTRA GT** may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment.

Conversion Rate:

1 fluid ounce (fl. oz.) = 30 milliliters (mL) = 6 teaspoons (tsp.) = 2 Tablespoon (Tbs.)

RATES FOR PESTS - USING HAND-HELD PUMP OR POWER-OPERATED TANK SPRAYER [LAWN & GARDEN SPRAYER]

For Surface or Spot Applications: Hold sprayer nozzle approximately 12 inches from surface to be treated. Apply directly to insects when possible.

For Crack & Crevice Applications: Adjust sprayer nozzle to deliver a pin stream; place nozzle tip into cracks, crevices, holes and other small openings.

Pest	Dilution Rate	SPECIFIC USE DIRECTIONS
Ants Bedbugs (adult) Cockroaches [†] Silverfish	1.2 fl. oz. (35 mL) (2½ Tbs.) per gallon of water	<p>Use 1 gallon of spray solution per 1000 sq. ft.</p> <p>Ants: Apply as a crack and crevice or spot treatment to ant trails around doors and windows where ants may be found. Locate and treat nests. Where ants are trailing inside, apply as a residual treatment to active areas such as baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices.</p> <p>Bedbugs: Apply as a crack and crevice or spot treatment. Clean floors and surfaces by vacuuming. Apply as a coarse, low-pressure spray to crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bedsprings and bed frames. Do not apply to furniture surfaces or mattresses where people will be laying or sitting. Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.</p> <p>Cockroaches and Silverfish: Apply as a crack and crevice or spot treatment using a coarse, low pressure spray to baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics, and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, and drawers. Pay particular attention to cracks and crevices; also see Outdoor Surfaces Use.</p>
Boxelder Bugs Carpet Beetles Centipedes Cigarette Beetles Clover Mites Confused Flour Beetles Crickets Earwigs Firebrats House Flies	0.2 fl. oz. (6 mL) (1¼ tsp.) to 0.4 fl. oz. (12 mL) (2½ tsp.) per gallon of water	<p>Crickets, Earwigs and Firebrats: Apply as a crack and crevice or spot treatment using a coarse, low pressure spray to baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics, and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, and drawers. Pay particular attention to cracks and crevices; also see Outdoor Surfaces Use.</p> <p>House Flies: Apply as a residual surface spray directly to walls, ceilings, window screens, and resting</p>

<p>Lesser Grain Borers Millipedes Red Flour Beetles Rice Weevils Saw-toothed Grain Beetles Sowbugs</p>		<p>areas. May be used inside residential buildings as well as in and around carports, garages, and storage sheds; also see Outdoor Surfaces Use.</p> <p>Pantry Pests (Carpet Beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Saw-toothed grain beetle):</p>
<p>Cluster Flies² Crickets³ House Flies² Litter Beetles¹ (adults/immature stages such as Darkling, Hide, and Carrion) Palmetto Bugs Pillbugs Spider Mites (Two-spotted, Spruce)</p>	<p>0.8 fl. oz. (24 mL) (4¾ tsp.) per gallon of water</p>	<p>Apply as a crack and crevice or spot 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 utensils, foodstuff, or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.</p> <p>Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sowbugs: Apply as a sport or crack and crevice spray around doors and windows where these pests may be found or where they may enter premises. Treat baseboards and storage areas. Apply outdoor barrier treatments to prevent infestation as described below; also see Outdoor Surfaces Use.</p> <p>Cluster Flies: Apply in late Summer or early Fall before flies are observed alighting on surfaces. Apply thoroughly as a residual surface spray on siding, under eaves, and around windows and doors paying particular attention to south-facing surfaces, but do not allow runoff to occur. Heavy precipitation prior to frost may require re-treatment to maintain protection. In Winter and Spring when flies become active and are emerging, interior crack and crevices and void treatments can help reduce the infestation, along with surface application in infested attics or unoccupied lofts.</p> <p>Litter Beetles (Darkling, Hide, and Carrion Beetles) and House Flies in Non-commercial Animal Housing: To control adult litter beetles, apply BIO KILL EXTRA GT as a residual surface spray to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control flies, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals: also see Non-commercial Livestock/Poultry Housing Structures</p>

		and Pet Kennels.
Termites	0.2 fl. oz. (6 mL) (1¼ tsp.) to 0.4 fl. oz. (12 mL) (2½ tsp.) per gallon of water	Bio Kill EXTRA GT may be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subterranean termites, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.
¹ For control of LIGHT beetle infestations, use 0.4 fl. oz. (12 mL) (2½ tsp.) per gal. water ² In all states except California, rates for house flies may be increased to 0.8 fl. oz. (24 mL) (4¾ tsp.) per gal. water when environmental conditions are severe and/or populations are high. ³ For clean-out/severe infestations use 0.8 fl. oz. (24 mL) (4¾ tsp.) per gal. water.		

Non-commercial Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Make interior and exterior perimeter applications in and around the livestock, poultry, and pet housing structures. Normal cleaning of the structure must also be done along with applications of **BIO KILL EXTRA GT** to effectively control the crawling and flying insect pests listed in the table.

BIO KILL EXTRA GT may be used in unoccupied areas of non-commercial livestock barns or housing structures. Apply to floors, vertical, and overhead surfaces where crawling or flying insect pests are or may be present. Feeders, waterers, and feed carts should be covered before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows, and doors, and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations or flying and crawling insect pests.

For non-commercial poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application should also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 1 – 3 ft. up and 2 – 6 ft. out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

Outdoor Surfaces Use

To kill termites* (above ground only) [and control] ants, centipedes, cockroaches, crickets, house flies, millipedes, sowbugs, pillbugs, and other similar perimeter arthropod pests.

Apply with a lawn and garden sprayer as a residual surface treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, and refuse dumps where these insect pests are active. Remove all exposed food and cooking utensils. Cover all food handling surfaces or wash thoroughly after treatment and before use. Do not use on edible crops.

*These applications are not a substitute for mechanical alteration to control subterranean termites, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

Perimeter Treatments

Apply a continual band of insecticide around building foundations and around windows, doors, entrances, eaves, and vents to reduce the potential for entry by crawling pests. Before applications, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure and upwards along the foundation to 3 ft., and around windows, doors, and roof overhangs. 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.

Amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

Rate Table For Perimeter Barrier Applications

Application Rate: Fl. oz. (mL) (tsp.) of BIO KILL EXTRA GT	Gals. of Water¹	Area of Coverage (sq. ft.)
0.2 fl. oz. (6mL) (1¼ tsp.)	1-5 gals	800-1600 sq. ft.
0.4 fl. oz. (12mL) (2½ tsp.)	1-5 gals.	800-1600 sq. ft.
0.8 fl. oz. (24mL) (4¾ tsp.)	1-5 gals.	800-1600 sq. ft.
1.2 fl. oz. (35mL) (2½ Tbs.)	1-5 gals.	800-1600 sq. ft.
¹ Application volume may be greater than 5 gals./800-1600 sq. ft. if required under heavy vegetative or landscaping materials in order to obtain desired coverage. To control ants and cockroaches, mix 1.2 fl. oz. in 1 gallon of water and apply to cover 1000 sq. ft.		

Example of Dilutions For Perimeter Barrier Applications

Application Volume Gals. of Solution per 1,000 sq. ft.	Application Rate of BIO KILL EXTRA GT Per 1,000 sq. ft.	Amount of BIO KILL EXTRA GT to Dilute in Water According to Spray Tank Volumes		
		5 gals.	10 gals.	50 gals.
1 gal. per 1,000 sq. ft.	0.2 fl. oz. (6 mL) (1¼ tsp.) 0.4 fl. oz. (12 mL) (2½ tsp.) 0.8 fl. oz. (24 mL) (4¾ tsp.) 1.2 fl. oz. (35 mL) (2½ Tbs.)	1 fl. oz. (30 mL) (6 tsp.) (2 Tbsp.) 2 fl. oz. (60 mL) (12 tsp.) (4 Tbsp.) 4 fl. oz. (120 mL) (8 Tbsp.) 6 fl. oz. (180 mL) (12 Tbs.)	2 fl. oz. (60 mL) (12 tsp.) (4 Tbsp.) 4 fl. oz. (120 mL) (8 Tbsp.) 8 fl. oz. (240 mL) (½ cup) 12 fl. oz. (360 mL) (¾ cup)	10 fl. oz. (300 mL) 20 fl. oz. (600 mL) 40 fl. oz. (1200 mL) 60 fl. oz. (1800 mL)
2 gal. per 1,000 sq. ft.	0.2 fl. oz. (6mL) (1¼ tsp.) 0.4 fl. oz. (12 mL) (2½ tsp.) 0.8 fl. oz. (24 mL) (4¾ tsp.)	½ fl. oz. (15 mL) (3 tsp.) 1 fl. oz. (30mL) (6 tsp.) (1Tbsp.) 2 fl. oz. (60 mL) (12 tsp.) (4 Tbsp.)	1 fl. oz. (30mL) (6 tsp.) (1Tbsp.) 2 fl. oz. (60 mL) (12 tsp.) (4 Tbsp.) 4 fl. oz. (120 mL) (8 Tbsp.)	5 fl. oz. (150 mL) 10 fl. oz. (300 mL) 20 fl. oz. (600 mL)
5 gal. per 1,000 sq. ft.	0.2 fl. oz. (6mL) (1¼ tsp.) 0.4 fl. oz. (12 mL) (2½ tsp.) 0.8 fl. oz. (24 mL) (4¾ tsp.)	0.2 fl. oz. (6mL) (1¼ tsp.) 0.4 fl. oz. (12 mL) (2½ tsp.) 0.8 fl. oz. (24 mL) (4¾ tsp.)	0.4 fl. oz. (12 mL) (2½ tsp.) 0.8 fl. oz. (24 mL) (4¾ tsp.) 1.6 fl. oz. (48 mL) (9½ tsp.)	2 fl. oz. (60 mL) (12 tsp.) (4 Tbsp.) 4 fl. oz. (120 mL) (8 Tbsp.) 8 fl. oz. (240 mL) (½ cup)

Example calculation: To apply 0.4 fl. oz. of Bio Kill EXTRA GT at a volume of 5 gal./1000 sq. ft. mix 4 oz of concentrate in 50 gallons of water.

LAWNS/TURFGRASS AND ORNAMENTALS

BIO KILL EXTRA GT may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential lawns and landscaped areas (including trees, shrubs, flowers, evergreens, foliage plants, and groundcovers).

IMPORTANT: Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

Mixing Instructions

BIO KILL EXTRA GT is to be mixed with water and applied with a lawn and garden sprayer. Fill applicator tank with the desired volume of water and add **BIO KILL EXTRA GT**. Close and shake or reagitae applicator tank before use if application is interrupted. Make up only amount of treatment volume required.

INSECT CONTROL on ORNAMENTAL PLANTS

BIO KILL EXTRA GT is for use to control the pests listed in the table below in residential landscaped areas including trees, shrubs, flowers, evergreens, foliage plants and groundcovers.

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. It is advised to prespray a selection of ornamental plants and observe them for 7 – 10 days prior to treating large areas if local use experience is unavailable.

TANK DILUTION RATES FOR ORNAMENTAL PESTS

Pest	Amount of BIO KILL EXTRA GT	Application Instructions
Ants Cockroaches	1.2 fl. oz. (35 mL) (2½ Tbs.) per gallon of water to cover 1,000 sq. ft.	Application to ornamentals should be started prior to the establishment of high insect pest populations. Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.
Armyworms Azalea caterpillars Aphids Bagworms Black vine weevils (adult) Boxelder bugs Budworms California oakworms Cankerworms Crickets Cutworms Eastern tent caterpillars Elm leaf beetles European sawflies Fall webworms Flea beetles Forest tent caterpillars Gypsy moth larvae Japanese beetles (adults) June beetles (adults) Lace bugs Leaf-feeding caterpillars Leafhoppers Leafminers (adults) Leaf rollers Leaf skeletonizers Midges Oleander moth larvae Pillbugs Pine sawflies Pine shoot beetles Pinetip moths Plant bugs	.15 – .5 fl. oz. (1 to 3 tsp.) per 10 gals.	Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage. For spot treatments use ½ fl. oz. (3 tsp.) (1 Tbsp.) BIO KILL EXTRA GT per 1 – 2½ gals. of water. Scale: Thoroughly cover the plant with BIO KILL EXTRA GT spray, including trunks, stems, twigs, and foliage for control of scale insects (crawler stage). Bagworm: Apply BIO KILL EXTRA GT when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.

Root weevils Sawflies Scale insects (crawlers) Spittlebugs Striped beetles Striped oakworms Thrips Tip moths Tussock moth larvae		
Broadmites Brown softscales California redscales (crawlers) Clover mites Mealybugs Pineneedlescales (crawlers) Spider mites Whiteflies	.3 - .5 fl. oz. (2 to 3 tsp.) per 10 gals	

BIO KILL EXTRA GT Mixing Chart for Ornamental Insect Pest Control

(BIO KILL EXTRA GT to add per spray tank)

Rate of BIO KILL EXTRA GT	25 Gals.	50 Gals.	100 Gals.	200 Gals.	300 Gals.
1.5 oz. ¹ (9 tsp.) (4½ Tbsp.)	0.4 oz. (2½ tsp.)	0.8 oz. (4¾ tsp.)	1½ oz. (9 tsp.) (3 Tbsp.)	3 oz. (6 Tbsp.)	4½ oz.
3 oz. ² (9 Tbsp.)	0.8 oz. (4¾ tsp.)	1½ oz. (9 tsp.) (3 Tbsp.)	3 oz. (6 Tbsp.)	6 oz.	9 oz.
5 oz. ³ (15 Tbsp.)	1⅓ oz. (8 tsp.)	2½ oz. (7½ Tbsp.)	5 oz.	10 oz.	15 oz.
15 oz. ⁴	4 oz.	8 oz.	16 oz.	32 oz.	48 oz.

¹Equivalent to 3.5 mL per 1,000 sq. ft. (5 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.
²Equivalent to 7 mL per 1,000 sq. ft. (10 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.
³Equivalent to 9.5 mL per 1,000 sq. ft. (14 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.
⁴Equivalent to 35 mL per 1,000 sq. ft. (50 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.

LAWN/TURFGRASS INSECT PEST CONTROL

BIO KILL EXTRA GT is for use to control the pest listed in the table below around residential lawns and recreational areas.

RATES FOR LAWN AND TURFGRASS PESTS

Pest	Amount of BIO KILL EXTRA GT*	Application Instructions
Ants	(35 mL) 1.2 fl. oz. (2½ Tbs.) per 1,000 sq. ft.	Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. Make reapplications as necessary to keep pest populations under control, using higher rates as pest pressure increases.
Armyworms Centipedes Crickets Cutworms Earwigs Grasshoppers Japanese beetles (adult) Millipedes Mites Pillbugs Sod webworms Sow bugs	3.4 – 7 mL (0.1 – 0.2 fl. oz.) (½ - 1¼ tsp.) per 1000 sq. ft.	<p>Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments.</p> <p>For spot treatments, use ½ fl. oz. or BIO KILL EXTRA GT per 1 – 2½ gals. of water.</p> <p>Surface Insect Control (armyworms, cutworms, fleas, etc.): Apply BIO KILL EXTRA GT at recommended rates in 2 – 5 gals. of water per 1,000 sq. ft. 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 for control of surface-feeding insect pests.</p> <p>Thatch Inhabiting Insect control (chinch bugs, billbugs, etc.): Apply BIO KILL EXTRA GT at recommended rates in 2 – 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to ½ inch of water to move the BIO KILL EXTRA GT into the thatch layer. If irrigation is not available, then use high water application.</p> <p>Subsurface Insect Control (mole crickets, grubs, etc.): Apply BIO KILL EXTRA GT at recommended rates in 4 – 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply BIO KILL EXTRA GT</p>

		to turf wet with dew, rain or irrigation. Water-in immediately after application with ¼ - ½ inch of water.
Bluegrass billbugs (adult) Black turfgrass ataeinus (adult) Grubs (suppression) Hyperodes weevil (adult) Mole crickets (nymphs and young adults)	7 mL (¼ fl. oz.) (½ tsp.) per 1,000 sq. ft.	
Mole Crickets ¹ (mature adults) Chinch Bugs ¹	14 mL (½ fl. oz.) (3 tsp.) (1 Tbsp.) per 1,000 sq. ft.	
¹ Not for use on mature adult mole crickets and chinch bugs in New York state.		
*Example: To treat the listed turf pests at the 7 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 7 mL and divide it by the 5 (gallon) to get 1.4 mL to be added per gallon. For a 50 gallon tank, therefore, this would be 1.4 mL X 50 = 70 mL (or 2.5 oz.) in 50 gallons of water.		

BIO KILL EXTRA GT Mixing Chart for Turf Pest Control

Rate BIOKILL EXTRA GT	Amt. of BIO KILL EXTRA GT per Gallon of water to cover 1,000 Square Feet of Turf				
	2 gal.	4 gal.	6 gal.	8 gal.	10 gal.
5 oz. per acre	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
10 oz. per acre	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.
20 oz. per acre	23.0 oz.	11.5 oz.	7.7 oz.	5.7 oz.	4.6 oz.
50 oz. per acre	57.5 oz.	28.5 oz.	19.0 oz.	14.5 oz.	26.5 oz.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Pesticide Storage: Store in original container, out of reach of children and pets.
Pesticide Disposal: *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
Container Handling: *If empty* -- Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.

To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning this use of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risk of use and/or handling of this product when such use and/or handling is contrary to label instructions.

Jesmond Holdings Ag
 Chollerstrasse 35, CH 6301
 Zug Switzerland
 [Lot No. to be added at production]