


Reg # 58998-18

PM-18

1916

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 11-30-93

(A)  EPA	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 197756
	Application for Pesticide: NOTIFICATION RE: PR NOTICE 93-3		

Section I

1. Company/Product Number 58998-18	2. EPA Product Manager P Hutton	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Biobit HPWP	PM# 18	
5. Name and Address of Applicant (Include ZIP Code) Novo Nordisk A/S Novo Alle 2880 Bagsvaerd Denmark <input type="checkbox"/> Check if this is a new address	6. Expedited Review, in accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

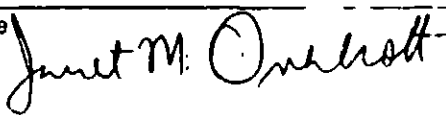
Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification to comply with PR Notice 93-3

NOTIFICATION LABEL NOT REVIEWED PER PR NOTICE 93-3
DATE 7/12/93

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
	If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Janet M. Overholt	Title Registration Agent	Telephone No. (Include Area Code) 213-790-2600
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Registration Agent	
4. Typed Name Janet M. Overholt	5. Date BEST AVAILABLE COPY 6/30/93	

Biobit® is the registered Trademark of Novo Nordisk

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENTS OF PRACTICAL TREATMENT

NOTIFICATION
LABEL NOT REVIEWED
PER PR NOTICE 00-6

DATE 7/12/93
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If in Eyes: Flush with plenty of water. Call a physician if eye irritation persists.
If on Skin: Flush skin with plenty of soap and water. Get medical attention if irritation persists.

ACTIVE INGREDIENT

Bacillus thuringiensis Berliner subspecies *kurstaki*

By Weight

Lepidopteran Active Toxin.....	6.4%
Inert Ingredients.....	93.6%
TOTAL.....	100.0%

POTENCY:

32,000 International Units (IU) per mg of product equivalent to 14.5 Billion IU per pound of product. Potency units should not be used to adjust use rates beyond those specified in the Directions For Use Section.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May cause eye injury irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

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 through any type of irrigation system.

Refer to the Directions For Use Booklet attached to this container for further directions.

STORAGE AND DISPOSAL:

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

Storage: Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 90 degrees F.

Pesticide Disposal: Pesticide waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility in accordance with federal and local regulations.

Container Disposal: Completely empty bag into application equipment then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

HOME GARDEN USE DISPOSAL INSTRUCTIONS

Pesticide Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

Container Disposal: Do not reuse bag. Discard bag in trash.

NOTICE OF WARRANTY: NOVO NORDISK MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label. In no case shall the seller be liable for consequential, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Novo Nordisk holds U.S. registrations for the active ingredient. BIOBIT HPWP is manufactured by Novo Nordisk.

EPA Registration No. 58998-18
EPA Est. No. 58998-DN-002

BHPWPJ93(93-3,6)

MANUFACTURED FOR:
Novo Nordisk
33 Turner Road
Danbury, Connecticut 06813-1907

NET CONTENTS:
Pounds

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

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

Re-entry

Do not enter treated area without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must include the following information:

Inform workers of area of fields that must not be entered without appropriate protective clothing until sprays have dried. In case of accidental exposure, wash thoroughly with soap and water. If in eyes, flush with plenty of water. Get medical attention if eye irritation persists.

When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

CAUTION: Area treated with Biobit HPWP on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, wash thoroughly with soap and water. If in eyes, flush with plenty of water. Get medical attention if eye irritation persists.

APPLICATION

Biobit HPWP may be applied by ground or aerial equipment with quantities of water sufficient to provide thorough coverage of plant parts to be protected. The amount of water needed per acre will depend upon crop size, weather, spray equipment, and local experience.

MIXING

Fill spray or mixing tank half full of water. Begin agitation and pour Biobit HPWP into water while maintaining continuous agitation. Add other spray material (if any) and balance of water. Agitate as necessary to maintain suspension. Do not allow diluted mixture to remain in the tank for more than 48 hours.

The use of a spreader-sticker is recommended for hard to wet crops such as cole crops or to improve weather-fastness of the spray deposits. Combinations with commonly used spray tank adjuvants are generally not deleterious to Biobit HPWP if the mix is used promptly. Before mixing in the spray tank, it is advisable to test physical compatibility by mixing all components in a small container in proportionate quantities.

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For smaller spray volumes mix the proper number of teaspoons of Biobit HPWP from the following chart to attain the desired rates:

If the rate is: Add this amount per gallon of mix:

0.5 lb/acre	1 teaspoon
1.0 lb/acre	2 teaspoons
2.0 lb/acre	4 teaspoons

The above rate calculations assume that the final mix will be applied to runoff on the target crop and that thorough coverage will be obtained.

SPRAY VOLUMES

Aerial Application: Use recommended amount of Biobit HPWP in a minimum of 5 gallons of water per acre. Apply early morning or evening when air is calm.

Ground Application: Use recommended amount of Biobit HPWP in a minimum of 20 gallons of water per acre.

Ground applications to trees and vines: Apply specific dosage per acre of Biobit HPWP in a minimum of 100 gallons of water per acre for dilute applications. Wet foliage thoroughly with spray but not to the point of excessive runoff. For mist blowers, use recommended amount of Biobit HPWP (per acre rate) in a minimum of 20 gallons of water per acre.

GENERAL USE INSTRUCTIONS

Biobit HPWP is a highly selective biological insecticide specific for the control of lepidopterous larvae. Biobit HPWP must be ingested by the larvae to be effective. For consistent control, apply at first sign of newly hatched larvae (1st and 2nd instar larvae). Susceptible larvae that ingest Biobit HPWP cease feeding within a few hours and die within 2-5 days.

For maximum effectiveness the following is recommended:

Monitor fields to detect early infestations.

Apply Biobit HPWP when eggs start hatching and larvae are small (early instars) and before significant crop damage occurs. Larvae must be actively feeding to be affected.

Repeat applications every 3 to 14 days to maintain control and protect new plant growth. Factors affecting spray interval include rate of plant growth, weather conditions, and reinfestation. Monitor populations of pests and beneficials to determine proper timing of applications.

Under conditions of heavy pest pressures or when large worms are present use the higher rate, shorten the application interval, and/or improve spray coverage to enhance control. When these conditions are present a contact insecticide should be used to enhance control.

Thorough coverage is essential for optimum performance. Ground applicators equipped with directed drop nozzles can improve coverage.

PREHARVEST INTERVAL

Biobit HPWP may be applied up to and on the day of harvest.

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APPLICATION RATES:

CROP GROUP				
FORAGE, FODDER, HAY				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Alfalfa (Hay & Seed) and Other Non-grass Animal Feeds,	Alfalfa Caterpillar Loopers	0.25-1.0	
	Grasses Grown For Feed (pasture, ranges, hay or silage)	Armyworm European Skipper (Essex Skipper)	0.5-2.0 0.5-1.0	*

CROP GROUP				
FRUITS & NUTS				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Pome and Stone Fruit Trees such as: Apples, Pears, Quince, Apricots, Cherries, Nectarines, Peaches, Plums, Prunes. Nut Trees such as: Almonds, Filbert, Chestnuts, Walnuts, Pecans.	Redhumped Caterpillars Tent Caterpillars Omnivorous Leafroller Tortrix Moths Cankerworms Peach Twig Borer Fruittree Leafroller Gypsy Moth Tufted Apple Budmoth Fall Webworm Variegated Leafroller Redbanded Leafroller Filbert Webworm Codling Moth Cutworms Filbert Leafroller Oblique Banded Leafroller Walnut Caterpillar	0.5-2.0	
		Citrus Cutworm Roughskinned Cutworm	0.25-0.5	

CROP GROUP				
FRUITS & NUTS Cont'd				
Citrus	Orangedog		0.25-1.0	
	Fruittree Leafroller Citrus Cutworm		0.5-2.0	
	Amorbia		1.0-1.5	Suppression Only **
Small Fruit and Berries such as: Blackberries, Blueberries, Currants Raspberries, Strawberries, Cranberries, Grapes	Gypsy Moth Blueberry Leafroller Loopers Fruittree Leafroller Grape Berry Moth Oblique Banded Leafroller Achema Sphinx Moth (Hornworm)		0.5-1.0	
	Armyworm		0.5-2.0	*
	Tobacco Budworm		2.0	
	Cherry Fruitworm Green Fruitworm		0.25-0.5	
	Grape Leaf folder Grapeleaf Skeletonizers Omnivorous Leafroller Orange Tortrix Saltmarsh Caterpillar		0.5-1.25	

CROP GROUP				
OTHER FRUITS				
Bananas	Banana Skipper		0.5-1.0	
Tropical Fruits	Hornworms Leafrollers Loopers Omnivorous Leafroller		0.5-2.0	
Kiwi	Omnivorous Leafroller		0.5-2.0	
Pineapple	Gummosos-Batrachedra commosae (Hodges) Thecla-Thecla basilides (Geyr)		0.25-0.5	
Melons	(see Vegetable Crops, Curcubits)			

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CROP GROUPS				
VEGETABLES AND COLE CROPS				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Root & Tuber Vegetables, and leaves of Root and Tuber vegetables such as Beet, Carrot, Horseradish, Radish, Potato Sweet Potato, Turnip and Turnip Greens, Sugarbeets,	Imported Cabbageworm Green Cloverworm	0.25-1.0	
		----- Hornworms	0.125-1.0	
		Cutworms Loopers Webworms Saltmarsh Caterpillar Omnivorous Leafroller	0.5-1.0	
		----- Armyworm	0.5-2.0	*
		----- Diamondback Moth	0.25-2.0	
		----- European Corn Borer	1.0-1.5	
		----- Alfalfa Caterpillar	0.125- 0.25	
		Bulb Vegetables such as: Garlic, Leeks, Onions, Shallot	Saltmarsh Caterpillar Omnivorous Leafroller Webworms Cutworms	0.5-1.0
	----- Hornworms		0.125-1.0	
	----- Imported Cabbageworm Green Cloverworm Loopers		0.25-1.0	
	----- Armyworm		0.5-2.0	*
	----- Diamondback Moth		0.25-2.0	
	----- European Corn Borer		1.0-1.5	
	----- Helicoverpa (Heliothis) sp		1.0	Suppression Only, **

Crop	Pests	Rate (lbs./acre)	Special Instructions
Leafy vegetables, such as: Celery, Lettuce (Head and Leaf), Parsley, Endive, Spinach, Kale	Imported Cabbageworm Green Cloverworm Loopers	0.25-1.0	
	Hornworms	0.125-1.0	
	Cutworm, Webworms	0.5-1.0	
	Diamondback Moth	0.25-2.0	
	Saltmarsh Caterpillar Omnivorous Leafroller	0.5-1.0	
	Armyworm	0.5-2.0	*
	European Corn Borer	1.0-1.5	
Legume and foliage of Legume vegetables, such as Beans, Lentils, Peas, Soybeans	Loopers	0.25-1.0	
	Hornworms	0.125-0.5	
	Podworms Imported Cabbageworm Green Cloverworm Saltmarsh Caterpillar Soybean Loopers	0.5-1.0	
	Armyworm	0.5-2.0	*
	Diamondback Moth Velvetbean Caterpillar	0.25-2.0	
	European Corn Borer	1.0-1.5	
	Cutworm	0.5-1.5	

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	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Fruiting Vegetables such as: Eggplant, Peppers, Tomatoes	Imported Cabbageworm Green Cloverworm ----- Diamondback Moth ----- Hornworms ----- Tomato Fruitworm(Heliothis) Variegated Cutworm Saltmarsh Caterpillar Loopers ----- Armyworm ----- European Corn Borer	0.25-0.5 ----- 0.25-2.0 ----- 0.125-1.0 ----- 0.5-1.0 ----- 0.5-2.0 ----- 1.0-1.5	 *
	Brassica (cole) vegetables such as: Broccoli, Brussels sprouts, Cabbage, Cauliflower, Collards, Kohlrabi,	Diamondback Moth ----- Hornworms ----- Webworms Loopers Cutworms Saltmarsh Caterpillar Omnivorous leafroller ----- Imported Cabbageworm Green Cloverworm ----- Armyworms ----- European Corn Borer	0.25-2.0 ----- 0.125-1.0 ----- 0.5-1.0 ----- 0.25-1.0 ----- 0.5-2.0 ----- 1.0-1.5	 *
	Cucurbit vegetables such as: Cucumbers, Melons, Pumpkins, Squash, Watermelon	Imported Cabbageworm Green Cloverworm Loopers ----- Diamondback Moth ----- Saltmarsh Caterpillar Melonworm Pickleworm Rindworm complex ----- Armyworm ----- European Corn Borer ----- Hornworms	0.25-1.0 ----- 0.25-2.0 ----- 0.25-1.0 ----- 0.5-2.0 ----- 1.0-1.5 ----- 0.125-0.5	 *

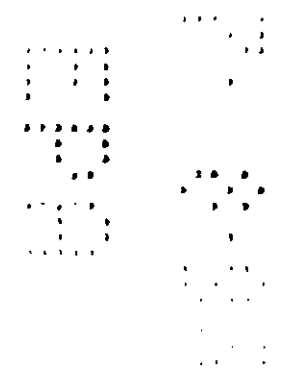
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CROP GROUP				
OTHER VEGETABLES				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Artichokes	Artichoke Plume Moth	0.5-1.25	
		-----	-----	-----
		Armyworm	0.5-1.5	*
	Asparagus	Loopers	0.25-1.25	
		-----	-----	-----
		Armyworms	0.5-2.0	*
	Malanga	Diamondback Moth	0.25-2.0	
		-----	-----	-----
		Green Cloverworm	0.25-0.5	
		Imported Cabbageworm	-----	-----
	Watercress	Loopers	0.25-2.0	
		Diamondback Moth	-----	-----
	Sweet Corn	Armyworms	0.5-2.0	*
		Saltmarsh Caterpillar	0.5-1.0	
		-----	-----	-----
		Loopers	0.25-2.0	
		Diamondback Moth	-----	-----
	Watercress	Armyworms	0.5-2.0	*
-----		-----	-----	
Green Cloverworm		0.25-0.5		
Imported Cabbageworm		-----	-----	
Sweet Corn	Saltmarsh Caterpillar	0.5-1.0		
	European Corn Borer	1.0-1.25		
Sweet Corn	(see Other Crops, Corn)			

CROP GROUP				
HERBS, SPICES, MINTS				
such as Basil, Dill, Oregano, Peppermint, Tyme	Loopers	0.25-1.0		
	-----	-----	-----	
	Diamondback Moth	0.5-2.0		
	-----	-----	-----	
	Green Cloverworm	0.25-0.5		
	Imported Cabbageworm	-----	-----	
Sweet Corn	Armyworm	0.5-2.0	*	
	-----	-----	-----	
Sweet Corn	European Corn Borer	1.0-1.5		
	-----	-----	-----	

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CROP GROUP				
OTHER CROPS				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Avocadoes	Loopers	1.0-1.25	
		Orange Tortrix Omnivorous Leafroller Omnivorous Looper Spanworm	0.5-2.0	
		Amorbia	0.5-2.0	Suppression Only **
	Rice	Armyworms	0.5-1.5	*
		Loopers Saltmarsh Caterpillar,	0.5-1.0	
		Cutworm	0.5-1.5	
		Green Cloverworm, VelvetBean Caterpillar	0.25-0.5	
		Helicoverpa (Heliothis) spp	1.0	Suppression Only **



	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Cotton (Except CA & AZ)	Loopers ----- Armyworm ----- Cotton bollworm Tobacco budworm	0.5-1.0 ----- 0.5-2.0 ----- 0.25-2.0	* ----- see below
<p><u>Special Instructions:</u> For early season management of <i>Helicoverpa</i> species. Initiate applications when 50% of plants are at pinhead square cotton stage independent of <i>Heliothis</i> egg and larval counts or at first egg lay, whichever occurs earlier. Continue applications on a five day spray interval up to the pyrethroid spray window.</p>				
	Cotton (CA & AZ)	Armyworm ----- Cotton Leaf Perforator Cotton Leafworm Saltmarsh Caterpillar ----- Loopers ----- Cotton Bollworm Tobacco Budworm	0.5-2.0 ----- 0.5-1.0 ----- 0.5-1.0 ----- 0.5-2.0	* ----- See Below
<p><u>Special Instructions:</u> Repeat as necessary throughout the season to maintain control. If egg laying frequency indicates future moderate to heavy larval populations, time application spray to coincide with the second instar larvae. During periods of high temperatures larvae will progress through first to third instars very rapidly and early application timing is necessary for control. When plant cover is dense and larvae are feeding in the lower 2/3 portion of the plant, aerial application of Biobit HPWP may not provide adequate control.</p>				
	Canola/Rape Seed	Armyworm ----- Diamondback Moth ----- Looper ----- <i>Helicoverpa</i> (<i>Heliothis</i>)	0.5-2.0 ----- 0.25-2.0 ----- 0.5-1.0 ----- 0.5-2.0	* ----- ----- -----
	Corn Field, Sweet, Popcorn	Armyworms ----- European Corn Borer (whorl Stage Only) ----- Southwestern Corn Borer	0.5-2.0 ----- 0.5-2.0 ----- 1.0-1.5	* ----- ----- Aids in Control

	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Hops	Armyworm ----- Loopers ----- Omnivorous Leaf-tier Spotted Cutworm Oblique Banded Leafroller	0.5-2.0 ----- 0.25-1.0 ----- 0.5-1.0	*
	Jojoba	Looper (Anacamptodes spp.)	0.5-1.0	
	Peanuts	Green Cloverworm Loopers Velvetbean Caterpillar Podworms ----- Helicoverpa (Heliothis) spp	0.5-1.0 ----- 1.0	Suppression Only **
	Persimmons, Pomegranate	Fall Webworm Filbert Webworm Omnivorous Leafroller Redhumped Caterpillar Tent Caterpillar ----- Citrus Cutworm	0.5-1.0 ----- 0.5-1.25	
	Safflower	Armyworm ----- Loopers Saltmarsh Caterpillar	0.5-2.0 ----- 0.5-1.0	*
	Sorghum	Headworm	0.5-1.0	
	Soybeans	(see Vegetable Crops, Legumes)		
	Sunflowers	Headmoth Loopers	0.5-1.0	
	Small Grains	Armyworms ----- Loopers	0.5-2.0 ----- 0.5-1.0	*
	Tobacco	Tobacco Hornworm ----- Looper ----- Tobacco Budworm	0.125-0.5 ----- 0.25-1.0 ----- 2.0	Suppression Only **

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CROP GROUP
FLOWERS, BEDDING PLANTS, AND ORNAMENTALS

Crop	Pests	Rate lbs./acre	Special Instructions
Ornamentals, Flowers, Bedding plants	Diamondback Moth Armyworm	0.5-2.0	*
	Azalea Moth Ello Moth (Hornworm) Io Moth Loopers Oleander Moth Omnivorous Leafroller Omnivorous Looper Tobacco Budworm	0.25-0.5	

CROP GROUP
GREENHOUSE, SHADE TREES, AND OUTDOOR NURSERY CROPS

Crop	Pests	Rate (lbs./acre)	Special Instructions
Such as Brassica, Fruiting Groups, Herbs, and Leafy	Armyworms	0.5-2.0	*
	Loopers	0.5-1.0	

CROP GROUP
TURF

Crop	Pests	Rate (lbs./acre)	Special Instructions
Turf	Sod Webworm	1.0-2.0	
	Tropical Sod Webworm	1.0	
	Armyworm	1.0	*

CROP GROUP

Crop	Pests	Rate (lbs./acre)	Special Instructions
Home Garden Use	Biobit HPWP may be used for any labeled pest and crop using the rates, mixing, and general use instructions specified on this label. Thorough applications to spray runoff should be made.		

CROP GROUP				
Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees	Gypsy Moth Spruce Budworm Prowntail Moth	0.5-1.25	
		Tussock Moths Pine Butterfly Bagworm Leafrollers Tortrix Moths Mimosa Webworm Tent Caterpillars Jackpine Budworm Blackheaded Budworm Elm Spanworm Saddled Prominent Saddleback Caterpillars	0.5-1.0	
		Redhumped Caterpillar Spring Cankerworm Fall Cankerworm California Oakworm Fall Webworm	0.25-0.5	

Special Instructions

* Biobit HPWP may be used to control small armyworms (first and second instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature larvae or heavy populations are present, a contact insecticide should be used to enhance control.

** Suppression Only. Use to aid in control of light to moderate populations of first and second instars in integrated pest management conditions. Repeat treatments at four to five day intervals. The use of additional ovicidal or larvicidal insecticide will aid in control.

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Novo Nordisk



**Novo Nordisk
Bioindustrials, Inc.**

33 Turner Road
P.O. Box 1907
Danbury, CT 06813-1907

Tel. 203-790-2600
FAX 203-790-2748

July 1, 1993

Mr. Phil Hutton
Product Manager (18)
Insecticide Rodenticide Branch
Registration Division (H7505C)
Office of Pesticide Programs
U.S. Environmental Protection Agency
401 M Street S.W.
Washington, D.C. 20460

RE: Response to PR Notice 93-3
Notification, Biobit® HPWP, EPA Registration No. 58998-18

Dear Mr. Hutton:

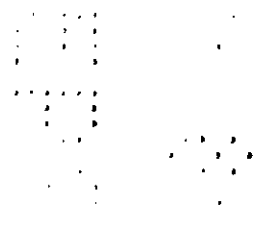
This Notification is submitted to comply with PR Notice 93-3.

This label also incorporates the removal of the words "High Potency" from the banner block containing the product name. A separate EPA Form 8570-1 and label is submitted within this parcel in compliance with PR Notice 93-6. The label submitted in compliance with PR Notice 93-6 only reflects the removal of the words "High Potency".

Sincerely,

Janet M. Overholt
Regional Manager
Regulatory Affairs
Plant Protection Division

Enc: EPA Form 8570-1
1 label




PM 18 58998-18

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A)  EPA NOTIFICATION RE: PR NOTICE 93-6	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 197757
	Application for Pesticide:		

Section I

1. Company/Product Number 58998-18	2. EPA Product Manager P. Hutton	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Biobit HPWP	PM# 18	
5. Name and Address of Applicant (Include ZIP Code) Novo Nordisk A/S Novo Alle 2880 Bagsvaerd Denmark <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
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<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

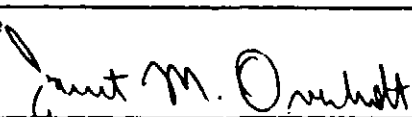
Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to comply with PR Notice 93-6. The words "High Potency" are removed from the banner block containing product name.

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
	If "Yes," Unit Package wgt. No. per container.	If "Yes," Package wgt. No. per container.		<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted.				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product		
6. Manner in Which Label is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other (_____)		

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Janet M. Overholt		Title Registration Agent		Telephone No. (include Area Code) 203-790-2600	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment, both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Registration Agent			
4. Typed Name Janet M. Overholt		5. Date 6/30/93			



Biobit® is the registered Trademark of Novo Nordisk

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENTS OF PRACTICAL TREATMENT

If in Eyes: Flush with plenty of water. Call a physician if eye irritation persists.

If on Skin: Flush skin with plenty of soap and water. Get medical attention if irritation persists.

ACTIVE INGREDIENT

Bacillus thuringiensis Berliner subspecies *kurstaki*

By Weight

Lepidopteran Active Toxin.....	6.4%
Inert Ingredients.....	93.6%
TOTAL.....	100.0%

POTENCY:

32,000 International Units (IU) per mg of product equivalent to 14.5 Billion IU per pound of product. Potency units should not be used to adjust use rates beyond those specified in the Directions For Use Section.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May cause eye injury irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters.

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 through any type of irrigation system.

Refer to the Directions For Use Booklet attached to this container for further directions.

STORAGE AND DISPOSAL:

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

Storage: Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 90 degrees F.

Pesticide Disposal: Pesticide waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility in accordance with federal and local regulations.

Container Disposal: Completely empty bag into application equipment then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

HOME GARDEN USE DISPOSAL INSTRUCTIONS

Pesticide Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

Container Disposal: Do not reuse bag. Discard bag in trash.

NOTICE OF WARRANTY: NOVO NORDISK MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label. In no case shall the seller be liable for consequential, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Novo Nordisk holds U.S. registrations for the active ingredient. BIOBIT HPWP is manufactured by Novo Nordisk

EPA Registration No. 58998-18
EPA Est. No. 58998-DN-002

BHPWPJ93

MANUFACTURED FOR:
Novo Nordisk
33 Turner Road
Danbury, Connecticut 06813-1907

NET CONTENTS

Pounds

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

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

Re-entry

Do not enter treated area without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must include the following information:

Inform workers of area of fields that must not be entered without appropriate protective clothing until sprays have dried. In case of accidental exposure, wash thoroughly with soap and water. If in eyes, flush with plenty of water. Get medical attention if eye irritation persists.

When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

CAUTION: Area treated with Biobit HPWP on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, wash thoroughly with soap and water. If in eyes, flush with plenty of water. Get medical attention if eye irritation persists.

APPLICATION

Biobit HPWP may be applied by ground or aerial equipment with quantities of water sufficient to provide thorough coverage of plant parts to be protected. The amount of water needed per acre will depend upon crop size, weather, spray equipment, and local experience.

MIXING

Fill spray or mixing tank half full of water. Begin agitation and pour Biobit HPWP into water while maintaining continuous agitation. Add other spray material (if any) and balance of water. Agitate as necessary to maintain suspension. Do not allow diluted mixture to remain in the tank for more than 48 hours.

The use of a spreader-sticker is recommended for hard to wet crops such as cole crops or to improve weather-fastness of the spray deposits. Combinations with commonly used spray tank adjuvants are generally not deleterious to Biobit HPWP if the mix is used promptly. Before mixing in the spray tank, it is advisable to test physical compatibility by mixing all components in a small container in proportionate quantities.

For smaller spray volumes mix the proper number of teaspoons of Biobit HPWP from the following chart to attain the desired rates:

If the rate is: Add this amount per gallon of mix:

0.5 lb/acre	1 teaspoons
1.0 lb/acre	2 teaspoons
2.0 lb/acre	4 teaspoons

The above rate calculations assume that the final mix will be applied to runoff on the target crop and that thorough coverage will be obtained.

SPRAY VOLUMES

Aerial Application: Use recommended amount of Biobit HPWP in a minimum of 5 gallons of water per acre. Apply early morning or evening when air is calm.

Ground Application: Use recommended amount of Biobit HPWP in a minimum of 20 gallons of water per acre.

Ground applications to trees and vines: Apply specific dosage per acre of Biobit HPWP in a minimum of 100 gallons of water per acre for dilute applications. Wet foliage thoroughly with spray but not to the point of excessive runoff. For mist blowers, use recommended amount of Biobit HPWP (per acre rate) in a minimum of 20 gallons of water per acre.

GENERAL USE INSTRUCTIONS

Biobit HPWP is a highly selective biological insecticide specific for the control of lepidopterous larvae. Biobit HPWP must be ingested by the larvae to be effective. For consistent control, apply at first sign of newly hatched larvae (1st and 2nd instar larvae). Susceptible larvae that ingest Biobit HPWP cease feeding within a few hours and die within 2-5 days.

For maximum effectiveness the following is recommended:

Monitor fields to detect early infestations.

Apply Biobit HPWP when eggs start hatching and larvae are small (early instars) and before significant crop damage occurs. Larvae must be actively feeding to be affected.

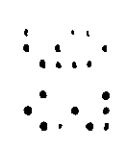
Repeat applications every 3 to 14 days to maintain control and protect new plant growth. Factors affecting spray interval include rate of plant growth, weather conditions, and reinfestation. Monitor populations of pests and beneficials to determine proper timing of applications.

Under conditions of heavy pest pressures or when large worms are present use the higher rate, shorten the application interval, and/or improve spray coverage to enhance control. When these conditions are present a contact insecticide should be used to enhance control.

Thorough coverage is essential for optimum performance. Ground applicators equipped with directed drop nozzles can improve coverage.

PREHARVEST INTERVAL

Biobit HPWP may be applied up to and on the day of harvest.



APPLICATION RATES:

CROP GROUP				
FORAGE, FODDER, HAY				
	<u>Crop</u>	<u>Pests</u>	<u>Rate (lbs./acre)</u>	<u>Special Instructions</u>
	Alfalfa (Hay & Seed) and Other	Alfalfa Caterpillar Loopers	0.25-1.0	
	Non-grass Animal Feeds,	Armyworm	0.5-2.0	*
	Grasses Grown For Feed (pasture, ranges, hay or silage)	European Skipper (Essex Skipper)	0.5-1.0	

CROP GROUP				
FRUITS & NUTS				
	<u>Crop</u>	<u>Pests</u>	<u>Rate (lbs./acre)</u>	<u>Special Instructions</u>
	Pome and Stone Fruit Trees such as: Apples, Pears, Quince, Apricots, Cherries, Nectarines, Peaches, Plums, Prunes. Nut Trees such as: Almonds, Filbert, Chestnuts, Walnuts, Pecans.	Redhumped Caterpillars Tent Caterpillars Omnivorous Leafroller Tortrix Moths Cankerworms Peach Twig Borer Fruittree Leafroller Gypsy Moth Tufted Apple Budmoth Fall Webworm Variegated Leafroller Redbanded Leafroller Filbert Webworm Codling Moth Cutworms Filbert Leafroller Oblique Banded Leafroller Walnut Caterpillar	0.5-2.0	
		Citrus Cutworm Roughskinned Cutworm	0.25-0.5	

CROP GROUP				
FRUITS & NUTS Cont'd				
Citrus	Orangedog		0.25-1.0	
	----- Fruittree Leafroller Citrus Cutworm -----		0.5-2.0	
	Amorbia		1.0-1.5	Suppression Only **
Small Fruit and Berries such as: Blackberries, Blueberries, Currants, Raspberries, Strawberries, Cranberries,	Gypsy Moth		0.5-1.0	
	Blueberry Leafroller			
	Loopers			
	Fruittree Leafroller			
	Grape Berry Moth			
	Oblique Banded Leafroller			
	Achema Sphinx Moth (Hornworm)			
Grapes	----- Armyworm		0.5-2.0	*
	----- Tobacco Budworm		2.0	
	----- Cherry Fruitworm Green Fruitworm		0.25-0.5	
	----- Grape Leaf folder Grapeleaf Skeletonizers Omnivorous Leafroller Orange Tortrix Saltmarsh Caterpillar		0.5-1.25	

CROP GROUP				
OTHER FRUITS				
Bananas	Banana Skipper		0.5-1.0	
Tropical Fruits	Hornworms		0.5-2.0	
	Leafrollers			
	Loopers			
	Omnivorous Leafroller			
Kiwi	Omnivorous Leafroller		0.5-2.0	
Pineapple	Gummosos-Batrachedra commosae (Hodges)		0.25-0.5	
	Thecla-Thecla basilides (Geyr)			
Melons	(see Vegetable Crops, Curcubits)			

CROP GROUPS

VEGETABLES AND COLE CROPS

	<u>Crop</u>	<u>Pests</u>	<u>Rate (lbs./acre)</u>	<u>Special Instructions</u>
	Root & Tuber Vegetables, and leaves of Root and Tuber vegetables such as Beet, Carrot, Horseradish, Radish, Potato Sweet Potato, Turnip and Turnip Greens, Sugarbeets,	Imported Cabbageworm Green Cloverworm	0.25-1.0	
		Hornworms	0.125-1.0	
		Cutworms Loopers Webworms Saltmarsh Caterpillar Omnivorous Leafroller	0.5-1.0	
		Armyworm	0.5-2.0	*
		Diamondback Moth	0.25-2.0	
		European Corn Borer	1.0-1.5	
		Alfalfa Caterpillar	0.125- 0.25	
	Bulb Vegetables such as: Garlic, Leeks, Onions, Shallot	Saltmarsh Caterpillar Omnivorous Leafroller Webworms Cutworms	0.5-1.0	
		Hornworms	0.125-1.0	
		Imported Cabbageworm Green Cloverworm Loopers	0.25-1.0	
		Armyworm	0.5-2.0	*
		Diamondback Moth	0.25-2.0	
		European Corn Borer	1.0-1.5	
		Helicoverpa (Heliothis) sp	1.0	Suppression Only **

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	<u>Crop</u>	<u>Pests</u>	<u>Rate (lbs./acre)</u>	<u>Special Instructions</u>
	Leafy vegetables, such as: Celery, Lettuce (Head and Leaf), Parsley, Endive, Spinach, Kale	Imported Cabbageworm Green Cloverworm Loopers ----- Hornworms ----- Cutworm, Webworms ----- Diamondback Moth ----- Saltmarsh Caterpillar Omnivorous Leafroller ----- Armyworm ----- European Corn Borer	0.25-1.0 ----- 0.125-1.0 ----- 0.5-1.0 ----- 0.25-2.0 ----- 0.5-1.0 ----- 0.5-2.0 ----- 1.0-1.5	----- ----- ----- ----- ----- ----- * ----- -----
	Legume and foliage of Legume vegetables, such as Beans, Lentils, Peas, Soybeans	Loopers ----- Hornworms ----- Podworms Imported Cabbageworm Green Cloverworm Saltmarsh Caterpillar Soybean Loopers ----- Armyworm ----- Diamondback Moth Velvetbean Caterpillar ----- European Corn Borer ----- Cutworm	0.25-1.0 ----- 0.125-0.5 ----- 0.5-1.0 ----- 0.5-2.0 ----- 0.25-2.0 ----- 1.0-1.5 ----- 0.5-1.5	----- ----- ----- ----- ----- * ----- ----- ----- -----



Crop	Pests	Rate (lbs./acre)	Special Instructions
Fruiting Vegetables such as: Eggplant, Peppers, Tomatoes	Imported Cabbageworm Green Cloverworm ----- Diamondback Moth ----- Hornworms ----- Tomato Fruitworm (Heliothis) Variegated Cutworm Saltmarsh Caterpillar Loopers ----- Armyworm ----- European Corn Borer	0.25-0.5 0.25-2.0 0.125-1.0 0.5-1.0 0.5-2.0 1.0-1.5	*
Brassica (cole) vegetables such as: Broccoli, Brussels sprouts, Cabbage, Cauliflower, Collards, Kohlrabi,	Diamondback Moth ----- Hornworms ----- Webworms Loopers Cutworms Saltmarsh Caterpillar Omnivorous leafroller ----- Imported Cabbageworm Green Cloverworm ----- Armyworms ----- European Corn Borer	0.25-2.0 0.125-1.0 0.5-1.0 0.25-1.0 0.5-2.0 1.0-1.5	*
Cucurbit vegetables such as: Cucumbers, Melons, Pumpkins, Squash, Watermelon	Imported Cabbageworm Green Cloverworm Loopers ----- Diamondback Moth ----- Saltmarsh Caterpillar Melonworm Pickleworm Rindworm complex ----- Armyworm ----- European Corn Borer ----- Hornworms	0.25-1.0 0.25-2.0 0.25-1.0 0.5-2.0 1.0-1.5 0.125-0.5	*

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CROP GROUP				
OTHER VEGETABLES				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Artichokes	Artichoke Plume Moth	0.5-1.25	
		Armyworm	0.5-1.5	*
		Loopers	0.25-1.25	
	Asparagus	Armyworms	0.5-2.0	*
		Diamondback Moth	0.25-2.0	
		Green Cloverworm Imported Cabbageworm	0.25-0.5	
		Loopers	0.25-1.0	
	Malanga	Armyworms	0.5-2.0	*
		Saltmarsh Caterpillar	0.5-1.0	
	Watercress	Loopers Diamondback Moth	0.25-2.0	
		Armyworms	0.5-2.0	*
		Green Cloverworm Imported Cabbageworm	0.25-0.5	
		Saltmarsh Caterpillar	0.5-1.0	
		European Corn Borer	1.0-1.25	
		Sweet Corn	(see Other Crops, Corn)	

CROP GROUP				
HERBS, SPICES, MINTS				
such as Basil, Dill, Oregano, Peppermint, Tyme	Loopers	0.25-1.0	••• ••• •••	
	Diamondback Moth	0.5-2.0		
	Green Cloverworm Imported Cabbageworm	0.25-0.5		
	Armyworm	0.5-2.0	*	
	European Corn Borer	1.0-1.5	••• •••	

CROP GROUP				
OTHER CROPS				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Avocadoes	Loopers	1.0-1.25	
		-----	-----	
		Orange Tortrix Omnivorous Leafroller Omnivorous Looper Spanworm	0.5-2.0	
		-----	-----	
		Amorbia	0.5-2.0	Suppression Only **
	Rice	Armyworms	0.5-1.5	*
		-----	-----	-----
		Loopers Saltmarsh Caterpillar,	0.5-1.0	
		-----	-----	-----
		Cutworm	0.5-1.5	
		Green Cloverworm, Velvet Bean Caterpillar	0.25-0.5	
		-----	-----	-----
		Helicoverpa (Heliothis) spp	1.0	Suppression Only **

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<u>Crop</u>	<u>Pests</u>	<u>Rate (lbs./acre)</u>	<u>Special Instructions</u>
Cotton (Except CA & AZ)	Loopers	0.5-1.0	* see below
	Armyworm	0.5-2.0	
	Cotton bollworm Tobacco budworm	0.25-2.0	
	<u>Special Instructions:</u> For early season management of <i>Helicoverpa</i> species. Initiate applications when 50% of plants are at pinhead square cotton stage independent of <i>Heliothis</i> egg and larval counts or at first egg lay, whichever occurs earlier. Continue applications on a five day spray interval up to the pyrethroid spray window.		
Cotton (CA & AZ)	Armyworm	0.5-2.0	* See Below
	Cotton Leaf Perforator Cotton Leafworm Saltmarsh Caterpillar	0.5-1.0	
	Loopers	0.5-1.0	
	Cotton Bollworm Tobacco Budworm	0.5-2.0	
	<u>Special Instructions:</u> Repeat as necessary throughout the season to maintain control. If egg laying frequency indicates future moderate to heavy larval populations, time application spray to coincide with the second instar larvae. During periods of high temperatures larvae will progress through first to third instars very rapidly and early application timing is necessary for control. When plant cover is dense and larvae are feeding in the lower 2/3 portion of the plant, aerial application of Biobit HPWP may not provide adequate control.		
Canola/Rape Seed	Armyworm	0.5-2.0	*
	Diamondback Moth	0.25-2.0	
	Looper	0.5-1.0	
	<i>Helicoverpa</i> (<i>Heliothis</i>)	0.5-2.0	
Corn Field, Sweet, Popcorn	Armyworms	0.5-2.0	* Aids in Control
	European Corn Borer (whorl Stage Only)	0.5-2.0	
	Southwestern Corn Borer	1.0-1.5	

Crop	Pests	Rate (lbs./acre)	Special Instructions
Hops	Armyworm	0.5-2.0	*
	Loopers	0.25-1.0	
	Omnivorous Leaf-tier Spotted Cutworm Oblique Banded Leafroller	0.5-1.0	
Jojoba	Looper (Anacamptodes spp.)	0.5-1.0	
Peanuts	Green Cloverworm Loopers Velvetbean Caterpillar Podworms	0.5-1.0	
	Helicoverpa (Heliothis) spp	1.0	Suppression Only **
Persimmons, Pomegranate	Fall Webworm Filbert Webworm Omnivorous Leafroller Redhumped Caterpillar Tent Caterpillar	0.5-1.0	
	Citrus Cutworm	0.5-1.25	
Safflower	Armyworm	0.5-2.0	*
	Loopers Saltmarsh Caterpillar	0.5-1.0	
Sorghum	Headworm	0.5-1.0	
Soybeans	(see Vegetable Crops, Legumes)		
Sunflowers	Headmoth Loopers	0.5-1.0	
Small Grains	Armyworms	0.5-2.0	*
	Loopers	0.5-1.0	
Tobacco	Tobacco Hornworm	0.125-0.5	
	Looper	0.25-1.0	
	Tobacco Budworm	2.0	Suppression Only **



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CROP GROUP
FLOWERS, BEDDING PLANTS,
AND ORNAMENTALS

Crop	Pests	Rate lbs./acre	Special Instructions
Ornamentals, Flowers, Bedding plants	Diamondback Moth Armyworm	0.5-2.0	*
	Azalea Moth Ello Moth (Hornworm) Io Moth Loopers Oleander Moth Omnivorous Leafroller Omnivorous Looper Tobacco Budworm	0.25-0.5	

CROP GROUP
GREENHOUSE, SHADE TREES,
AND OUTDOOR NURSERY CROPS

Crop	Pests	Rate (lbs./acre)	Special Instructions
Such as Brassica, Fruiting Groups, Herbs, and Leafy	Armyworms	0.5-2.0	*
	Loopers	0.5-1.0	

CROP GROUP
TURF

Crop	Pests	Rate (lbs./acre)	Special Instructions
Turf	Sod Webworm	1.0-2.0	
	Tropical Sod Webworm	1.0	
	Armyworm	1.0	*

CROP GROUP

Crop	Pests	Rate (lbs./acre)	Special Instructions
Home Garden Use	Biobit HPWP may be used for any labeled pest and crop using the rates, mixing, and general use instructions specified on this label. Thorough applications to spray runoff should be made.		

CROP GROUP				
Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees				
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees	Gypsy Moth Spruce Budworm Browntail Moth	0.5-1.25	
		Tussock Moths Pine Butterfly Bagworm Leafrollers Tortrix Moths Mimosa Webworm Tent Caterpillars Jackpine Budworm Blackheaded Budworm Elm Spanworm Saddled Prominent Saddleback Caterpillars	0.5-1.0	
		Redhumped Caterpillar Spring Cankerworm Fall Cankerworm California Oakworm Fall Webworm	0.25-0.5	

Special Instructions

* Biobit HPWP may be used to control small armyworms (first and second instar) when populations are light and full coverage sprays are applied Repeat treatment as necessary. If mature larvae or heavy populations are present, a contact insecticide should be used to enhance control.

** Supression Only. Use to aid in control of light to moderate populations of first and second instars in integrated pest management conditions. Repeat treatments at four to five day intervals. The use of additional ovicidal or larvicidal insecticide will aid in control.