



United States
Environmental Protection Agency
 Washington, DC 20460
NOTIFICATION

Registration
 Amendment
 Other

OPP Identifier Number
239634

Application for Pesticide - Section I

1. Company/Product Number 58998-18	2. EPA Product Manager J. Anderson	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Biobit HP Wettable Powder	PM# 18	
5. Name and Address of Applicant (Include ZIP Code) Novo Nordisk A/S Novo Alle 2800 Bagsvaerd <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 revise REI to 4 hrs as allowed by Policy Statement on Worker Protection Standard; Reduced Restricted Entry Intervals for Certain Pesticides, Effective May 3, 1995. Notification under PR Notice 95-3

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
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) 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 Carmen M. Sanchez Lopez, Ph.D.	Title Regional Manager Regulatory Affairs	Telephone (not include Area Code) 916-757-4738
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 or both under applicable law.		f. Data Application Received (Stamped)
2. Signature 	3. Title Regional Manager Regulatory Affairs	
4. Typed Name Carmen M. Sanchez Lopez, Ph.D.	5. Date Sept-12, 1995	



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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.

USER SAFETY RECOMMENDATIONS: Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT: Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements: Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions For Use section for information about this standard.

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 treated areas without protective clothing until sprays have dried.

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.

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 HP is manufactured by Novo Nordisk.

EPA Registration No. 58998-18
EPA Est. No. 58998-DN-002
BHPJ93(WPS)

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

NET CONTENTS
Pounds

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

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) and restricted-entry interval. The requirements in this box only 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 (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, waterproof gloves, shoes plus socks.

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 treated areas without protective clothing until sprays have dried.

APPLICATION

Biobit HP 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 HP 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 HP 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.

4/2/13

SPRAY VOLUMES

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

Ground applications to trees and vines: Apply specific dosage per acre of Biobit HP 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 HP (per acre rate) in a minimum of 20 gallons of water per acre.

GENERAL USE INSTRUCTIONS

Biobit HP is a highly selective biological insecticide specific for the control of lepidopterous larvae. Biobit HP 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 HP 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 HP 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 HP may be applied up to and on the day of harvest.

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	.
		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				
	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	

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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 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		
	Grapes	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)		

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 **

Handwritten mark

	<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	0.25-1.0	
		Green Cloverworm		
		Loopers		

		Hornworms	0.125-1.0	

		Cutworm, Webworms	0.5-1.0	

		Diamondback Moth	0.25-2.0	

		Saltmarsh Caterpillar	0.5-1.0	
		Omnivorous Leafroller		

		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	0.5-1.0	
		Imported Cabbageworm		
		Green Cloverworm		
		Saltmarsh Caterpillar		
	Soybean Loopers			

		Armyworm	0.5-2.0	*

		Diamondback Moth	0.25-2.0	
		Velvetbean Caterpillar		

		European Corn Borer	1.0-1.5	

		Cutworm	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	----- ----- ----- ----- ----- ----- ----- * ----- ----- ----- -----

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
	Avocados	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 **
	Canola/Rape Seed	Armyworm	0.5-2.0	*
		Diamondback Moth	0.25-2.0	
		Looper	0.5-1.0	
		Helicoverpa (Heliothis)	0.5-2.0	
	Corn Field, Sweet, Popcorn	Armyworms	0.5-2.0	*
		European Corn Borer (whorl Stage Only)	0.5-2.0	
		Southwestern Corn Borer	1.0-1.5	Aids in Control

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 **

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	

Special Instructions

* Biobit HP 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.