Please read instructions on re	United Sta Environmental Prote Washington, DC		
	Applic		
1. Company/Product Number	58998-1		

 Registration Amendment
Other

Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

		nited States		ļ.	Hegistra		Or F Identifier (40/106)
\$EPA		ntal Protection Agency ashington, DC 20460			Amendment 239631		
		Application for	or Pestici	de - Secti	ion I		
1. Company/Product Number	58998-1		1	Product Mana	_	3. Pro	posed Classification
				. Anderso	on	_ X	None Restricted
4. Company/Product (Name) Biobit Wettable Powder 18							
5. Name and Address of App		de)	6. Exp	edited Revi	ew. In accorda	nce with	FIFRA Section 3(c)(3)
Novo Nordisk A/S Novo Alle	S			ny product is	s similar or identi	cal in cor	nposition and labeling
2800 Bagsvaerd				to:EPA Reg. No			
<u></u>							
Check if this	is a new address	<u></u>	Produ	ct Name			**************************************
			Section - I				
Amendment - Explain	below.			Final printed	labels in response	to	
Resubmission in respo	once to Agency letter	deted		Agency lette "Me Too" A			
	•	<u> </u>			•		
X Notification - Explain I	belo₩.			Other - Expl	ain below.		
Explanation: Use addition	al page(s) if necessary	y. (For soption Lar	d Section II.)				
Notification to	revise REI to	4hrs as all	lowed by	_			
Standard; Reduce Notification und		~	als for	Certain i	esticides,	Effect	ive May 3, 1995
	er (K MOLICE)	7 .7-3					
	···		ection - I	11	<u> </u>		
1. Material This Product Will	Re Packaged In:		ection - i				
Child-Resistant Packaging	Unit Packaging	Tw	ater Soluble F	Packaging	2. Type of	Container	
Yes.	Yes	l i	Yes	owagg		Metal	
No	No	11	No			Plastic	
	If "Yes"	No. per If	"Yes"	No. per	 	Glass Paper	
* Certification must be submitted	Unit Packaging wgt.		ackage wgt	container		Other (S	Specify)
3. Location of Net Contents I	nfarmati -	4. Size(s) Retail C		1	5. Location of Lat	al Directio	One.
		4. Size(s) Retail C	ontainer		On Labe		
	ontainer		 _			ing accon	panying product
6. Manner in Which Label is	Affixed to Product	Lithograph Paper glue Stendiled		Other			
<u> </u>	······································			\ <u>\</u>			
			ection - I				
1. Contact Point (Complete	items directly below t						
Name Carmen M. Sanchez Lopez, Ph.D. Title Regional Manager Regulatory Affairs Telephone No. (Include Ayea Code) 916-757-4738'*							
		Certification)	,			6. Daté Application
certify that the state		this form and all a	ittechments th				Recuived
I acknowledge that an both under applicable		nisleading stateme	nt may be pur	iishable by fin	e or imprisonment	or	(Stamped)
2. Signature	0	3. т	itle n	ional W	7.00	_ _	1
// No. 1	1.1/	1	ve5	Regional Manager Regulatory Affairs			No. of
Causes The	rojev					·]
4. Typed Name	<i>-0</i>	5. 0					1 11
Carmen M. Sanch	ez Lopez, Ph.D).	Sent.	12,199	5		



CAUTION



STATEMENT OF PRACTICAL TREATMENT

If in eyes, flush with plenty of water. Get medical attention irritation persists.

ACTIVE INGREDIENT Bacillus thuringiensis Berliner subspecies kurstaki

16,000 International Units (IU) per mg of product (equivalent to 7.3 billion IU/lb.).....3.2% Inert Ingredients......96.8%

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS May cause eye 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.

Directions For Use, Cont.

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 is manufactured by Novo Nordisk.

Biobit® is the Registered Trademark of Novo Nordisk A/S

EPA Registration No. 58998-1 EPA Est. No. 58998-DN-002 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.

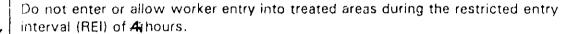
Do not apply this product through any type of irrigation system.

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.



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.

APPLICATION

Biobit 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 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, 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.

भ र्व 🤫

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

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

0.5 lb/acre	2 teaspoons
1.0 lb/acre	4 teaspoons
2.0 lb/acre	8 teaspoons

SPRAY VOLUMES

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

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

GENERAL USE INSTRUCTIONS

Biobit is a highly selective biological insecticide specific for the control of lepidopterous larvae. Biobit 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 cease feeding within a few hours and die within 2-5 days.

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

For maximum effectiveness the following is recommended:

Monitor fields to detect early infestations.

Apply Biobit 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.

APPLICATION RATES:

CROP GR	QUP			
FORAGE,	FODDER, HAY			
	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Alfalfa (Hay & Seed) and Other	Alfalfa Caterpillar Loopers	0.5-2.0	
	Non-grass Animal Feeds,	Armyworms	1.0-4.0	*
	Grasses Grown For Feed (pasture, ranges, hay or silage)	European Skipper (Essex Skipper)	1.0-2.0	

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 Caterpillar Tent Caterpillars Omnivorous Leafroller Tortrix Moths Cankerworms Fruittree Leafroller Gypsy Moth Tufted Apple Budmoth Fall Webworm Variegated Leafroller Redbanded Leafroller Redbanded Leafroller Walnut Caterpillar Codling Moth Cutworms Filbert Leafroller Oblique Banded Leafroller Filbert Webworm	1.0-4.0	
	Citrus Cutworm	1.0-2.5	
	Roughskinned Cutworm	0.5-1.0	

CROP GROUP			
FRUITS & NUTS Cont'd		1	
Citrus	Orangedog	0.5-2.0	
	Fruittree Leafroller Citrus Cutworm	1.0.4.0	
	Amorbia	2.0-3.0	* *
Small Fruit and Berries such as: Blackberries, Blueberries, Currants, Raspberries, Strawberries	Gypsy Moth Blueberry Leafroller Loopers Fruittree Leafroller Grape Berry Moth Oblique Banded Leafroller Achema Sphinx Moth (Hornworm)	1.0-2.0	•
Cranberries,	Armyworms	1.0-4.0	*
	Tobacco Budworm	4.0	
Grapes	Cherry Fruitworm Green Fruitworm	0.5-1.0	
	Grape Leaffolder Grapeleaf Skeletonizers Omnivorous Leafroller Orange Tortrix Saltmarsh Caterrillar	1.0-2.5	

CROP GROUP		
OTHER FRUITS		
Bananas	Banana Skipper	1.0-2.0
Tropical Fruits	Hornworms Leafrollers Loopers Omnivorous Leafroller	1.0-4.0
Kiwi	Omnivorous Leafroller	1.0-4.0
Pineapple	Gummosos-Batrachedra commosae (Hodges) Thecla-Thecla basilides (Geyr)	0.5-1.0
Melons	(see Vegetable Crops, Cucurbits)	

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:	Imported Cabbageworm Green Cloverworm	0.5-2.0	
Beets, Carrot,	Hornworms	0.25-2.0	
Horseradish, Radish, Potato Sweet Potato, Turnip and Turnip Greens, Sugarbeets,	Loopers Webworms	1.0-2.0	
	Armyworms	1.0-4.0	*
	Diamondback Moth	0.5-2.0	
	European Corn Borer	2.0-3.0	
	Alfalfa Caterpillar	0.25- 0.5	
Bulb Vogetables such as:	Saltmarsh Caterpillar Omnivorous Leafroller Webworms	1.0-2.0	
Garlic, Leeks, Onions, Shallot	Hornworms	0.25-2.0	
	Imported Cabbageworm Green Cloverworm Loopers	0.5-2.0	
	Cutworms	1.0-2.0	
	Armyworms	1.0-4.0	*
	Diamondback Moth	0.5-1.0	
	European Corn Borer	2.0-3.0	
	Heliothis spp	2.0	**

	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Leafy vegetables, such as:	Imported Cabbageworm Green Cloverworm	0.5-2.0	
	Celery, Lettuce (Head	Hornworms	0.25-2.0	
i	and Leaf), Parsley, Endive,	Cutworms Webworms	1.0-2.0	
	Spinach, Kale	Loopers Diamondback Moth	0.5-2.0	
		Saltmarsh Caterpillar Omnivorous Leafroller	1.0-2.0	
		Armyworms	1.0-4.0	*
		European Corn Borer	2.0-3.0	
	Legume and foliage of Legume	Loopers	0.5-2.0	
	vegetables, such as:	Hornworms	0.25-1.0	
	Lentils, Peas, Beans, Soybeans	Podworms Imported Cabbageworm Green Cloverworm Saltmarsh Caterpillar Soybean Loopers Velvetbean Caterpillar	1.0-2.0	
		Armyworms	1.0-4.0	*
		Diamondback Moth	0.5-2.0	
		European Corn Borer	2.0-3.0	
		Cutworm	1.0-3.0	

Crop	Pests	Rate (1bs./acre)	Special Instructions
Fruiting Vegetables such as: Eggplant, Peppers,	Imported Cabbageworm Diamondback Moth Green Cloverworm	0.5-1.0	
Tomatoes	Hornworms	0.25-2.0	
	Tomato Fruitworm(Heliothis) Variegated Cutworm Saltmarsh Caterpillar Loopers	1.0-2.0	*
	Armyworms	1.0-4.0	*
	European Corn Borer	2.0-3.0	
Brassica (\$	0.25-2.0	
vegetables such as: Broccoli, Brussels sprouts, Cabbage, Cauliflow	Webworms Loopers Cutworms Saltmarsh Caterpillar Omnivorous leafroller	1.0-2.0	
Collards, Kohlrabi,	Diamondback Moth Imported Cabbageworm Green Cloverworm	0.5-2.0	
	Armyworms	1.0-4.0	*
	European Corn Borer	2.0-3.0	
Cucurbit vegetable such as: Cucumbers Melons, Pumpkins, Squash, Watermelo	Loopers Diamondback Moth Loopers Saltmarsh Caterpillar Melonworm	0.5-2.0	
	Armyworms	1.0-4.0	*
	European Corn Borer	2.0-3.0	
	Hornworms	0.25-1.0	

OTHER VEGETABLES

Crop	Pests	Rate (lbs./acre)	Special Instructions
Artichokes	Artichoke Plume Moth	1.0-2.5	
	Armyworms	1.0-3.0	*
	Loopers	0.5-2.5	
Asparagus	Armyworms	1.0-4.0	*
	Diamondback Moth Green Cloverworm Imported Cabbageworm	0.5-1.0	
	Loopers	0.5-2.0	
Malanga	Armyworms	1.0-4.0	*
	Saltmarsh Caterpillar	1.0-2.0	
Watercress	Loopers Diamondback Moth	0.5-2.0	
	Armyworms	1.0-4.0	*
	Green Cloverworm Imported Cabbageworm	0.5~1.0	
	Saltmarsh Caterpillar	1.0-2.0	
	European Corn Borer	2.0-2.5	
Sweet Corn	(see Other Crops, Corn)		

CROP GROUP			
HERBS, SPICES, MINTS			
Such as: Basil, Dill, Oregano, Peppermint, Thyme	Loopers	0.5-2.0	
	Diamondback Moth Green Cloverworm Imported Cabbageworm	0.5-1.0	
	Armyworms	1.0-4.0	*
	European Corn Borer	2.0 3.0	

CROP GROUP			
OTHER CROPS			
Crop	Pests	Rate (lbs./acre)	Special Instructions
Avocadoes	Loopers	2.0-2.5	•
	Orange Tortrix Omnivorous Leafroller Omnivorous Looper Spanworm	1.0-4.0	
	Amorbia	1.0-4.0	**
Rice	Armyworms	1.0-3.0	*
	Loopers Saltmarsh Caterpillar	1.0-2.0	
	Cutworms	1.0-3.0	
	Green Cloverworm, VelvetBean Caterpillar	0.5-1.0	
	Heliothis spp	2.0	**

 Crop	Pests	Rate (1bs./acre)	Special Instructions
Cotton (Except	Loopers	1.0-2.0	
CA & AZ)	Armyworms	1.0-4.0	*
	Cotton bollworm Tobacco budworm	0.5-4.0	See Below
	Special Instructions: For Heliothis species. Initial of plants are at pinhead sindependent of Heliothis e or at first egg lay, which Continue applications on a up to the pyrethroid spray	tte applicatio square cotton egg and larval mever occurs e munication five day spr	ns when 50% stagę counts arlier.
Cotton (CA & AZ)	Armyworms	1.0-4.0	*
Au	Cotton Leaf Perforator Cotton Leafworm Saltmarsh Caterpillar	1.0-2.0	
	Loopers	1.0-2.0	
	Cotton Bollworm Tobacco Budworm	1.0-4.0	See Below
	Special Instructions: Repeat the season to maintain contency indicates future moder ulations, time application second instar larvae. Durifutures, larvae will progressinstars very rapidly and earnecessary for control. When larvae are feeding in the laplant, aerial application of provide adequate control.	rol. If egg rate to heavy spray to coin ing periods of start through fir application plant cover tower 2/3 port	laying freq- larval pop- cide with the high temper- st to third on timing is is dense and ion of the
Canola/Rape	Armyworms	1.0-4.0	*
Seed	Diamondback Moth	0.5-1.0	
	Loopers	1.0-2.0	
	Heliothis spp.	1.0-4.0	
 Corn such	Armyworms	1.0-4.0	*
as: Field, Sweet, Popcorn	European Corn Borer (Whorl Stage Only)	1.0-3.0	
	Southwestern Corn Borer	2.0-3.0	Aids in Control

Crop	Pests	Rate (lbs./acre)	Special Instructions
Hops	Armyworms	1.0-4.0	*
	Loopers	0.5-2.0	
	Omnivorous Leaftier Spotted Cutworm Oblique Banded Leafroller	1.0-2.0	
Jojoba	Looper (Anacamptodes spp.)	1.0-2.0	
Peanuts	Green Cloverworm Loopers Velvetbean Caterpillar Podworms	1.0-2.0	
	Heliothis spp	2.0	**
Persimmons, Pomegranate	Fall Webworm Filbert Webworm Omnivorous Leafroller Redhumped Caterpillar Tent Caterpillar	1.0-2.0	
	Citrus Cutworm	1.0-2.5	
Safflower	Armyworms	1.0-4.0	*
	Loopers Saltmarsh Caterpillar	1.0-2.0	
Sorghum	Headworm	1.0-2.0	
Soybeans	(see Vegetable Crops, Legumes)		
Sunflowers	Headmoth Loopers	1.0-2.0	
Small Grains	Armyworms	1.0-4.0	*
	Loopers	1.0-2.0	
Tobacco	Tobacco Hornworm	0.25-1.0	
	Loopers	0.5-2.0	
	Tobacco Budworm	2.0	**

CROP GROUP

FLOWERS, BEDDING PLANTS, AND ORNAMENTALS

Crop	Pests	Rate lbs./acre	Special Instructions
Ornamentals, Flowers, Bedding Plants	Armyworms Azalea Moth Diamondback Moth Ello Moth (Hornworm) Io Moth Loopers Oleander Moth Omnivorous Leafroller Omnivorous Looper Tobacco Budworm	1.0-4.0	*

CROP GROUP

GREENHOUSE, AND OUTDOOR NURSERY CROPS

	Crop	Pests	Rate (lbs./acre)	Special Instructions
	Such as: Flowers, Brassica, Fruiting Groups, Herbs and Leafy	Armyworms, Heliothis spp	1.0-4.0	*
		Loopers	1.0-2.0	

CROP GROUP

TURF

	Crop	Pests	Rate (lbs./acre)	Special lnstructions
	Turf	Sod Webworm	2.0-4.0	
:		Tropical Sod Webworm	2.0	
		Armyworms	2.0	*

CROP GI	ROUP			
	Crop	Pests	Rate (lbs./acre)	Special Instructions
		Biobit may be used for any crop using the rates, mixing instructions specified on	ng, and genera	

CROP GROUP
Forests, Shade Trees, Ornamentals, Shrubs,
Sugar Maple Trees

 		1	T
Crop	Pests	Rate (lbs./acre)	Special Instructions
Forests, Shade Trees, Ornamentals,	Gypsy Moth Spruce Budworm Browntail Moth	1.0-2.5	•
Shrubs, Sugar Maple Trees	Tussock Moths Pine Butterfly Bagworm Leafrollers Tortrix Moths Mimosa Webworm Tent Caterpillars Jackpine Budworm Blackheaded Budworm Elm Spanworm Saddled Prominent Saddleback Caterpillars	0.75-2.0	
	Redhumped Caterpillar Spring Cankerworm Fall Cankerworm California Oakworm Fall Webworm	0.5-1.0	

Special Instructions

- * Armyworm Control: Biobit 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.