

58998-17 9-14-95 10 34

Please read instructions on reverse before completing form.

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



United States  
Environmental Protection Agency  
Washington, DC 20460  
NOTIFICATION

|                                     |              |
|-------------------------------------|--------------|
| <input type="checkbox"/>            | Registration |
| <input type="checkbox"/>            | Amendment    |
| <input checked="" type="checkbox"/> | Other        |

|                       |
|-----------------------|
| OPP Identifier Number |
| 239638                |

Application for Pesticide - Section I

|   |  |  |
|---|--|--|
| 1. Company/Product Number<br>58998-17   | 2. EPA Product Manager<br>J. Anderson  | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br>Biocot XLP Flowable Concentrate  | PM#<br>18  |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br>Novo Nordisk A/S<br>Novo Alle<br>2800 Bagsvaerd<br><br><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:<br><br>EPA Reg. No. _____<br><br>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 4hrs 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<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No  | Unit Packaging<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                      | <input type="checkbox"/> Metal  | <input type="checkbox"/> Plastic |
|   |   |  |                                      | <input type="checkbox"/> Glass  | <input type="checkbox"/> Paper   |
| <b>* Certification must be submitted</b>  | If "Yes" Unit Packaging wgt.  | No. per container  | If "Yes" Package wgt                 | Other (Specify) _____   |                                  |
| 3. Location of Net Contents Information<br><input type="checkbox"/> Label <input type="checkbox"/> Container  |   | 4. Size(s) Retail Container  |                                      | 5. Location of Label Directions<br><input type="checkbox"/> On Label<br><input type="checkbox"/> On Labeling accompanying product |                                  |
| 6. Manner in Which Label is Affixed to Product<br><input type="checkbox"/> Lithograph<br><input type="checkbox"/> Paper glued<br><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<br>Carmen M. Sanchez Lopez, Ph.D.   | Title<br>Regional Manager<br>Regulatory Affairs | Telephone No. (Include Area Code)<br>916-757-4738 |
| <b>Certification</b><br>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<br>   | 3. Title<br>Regional Manager Regulatory Affairs |   |
| 4. Typed Name<br>Carmen M. Sanchez Lopez, Ph.D.  | 5. Date<br>Sept. 12, 1995                       |   |



# KEEP OUT OF REACH OF CHILDREN CAUTION



**ACTIVE INGREDIENT** *Bacillus thuringiensis* subspecies *kurstaki*,  
Lepidopteran Active Toxin.....3.3%  
Inert Ingredients.....96.7%  
TOTAL.....100%

**POTENCY:** 16,700 International Units (IU)/mg of product  
(equivalent to 76 billion IU/GAL.). Potency units should not be  
used to adjust use rates beyond those specified in the directions  
for use sections.

### PRECAUTIONARY STATEMENTS:

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes, open wounds or clothing. Causes moderate eye irritation.

### 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, and 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 agricultural 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.

### STATEMENTS OF PRACTICAL TREATMENT:

*If on Skin:* Wash with plenty of soap and water. Get medical attention. *If in Eyes:* Flush with plenty of water. Call a physician if eye irritation persists.

### DIRECTIONS FOR USE FOR AGRICULTURAL APPLICATIONS:

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.

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

### 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 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.

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.

### GENERAL AGRICULTURAL USE INSTRUCTIONS

Biocot XLP is a biological insecticide for the control of lepidopterous larvae. It contains the spores and endotoxin crystals of *Bacillus thuringiensis kurstaki*. Biocot XLP 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 Biocot XLP cease feeding within a few hours and die within 2-5 days.

Biocot XLP 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 Biocot XLP 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:** Biocot XLP may be applied by ground or aerial equipment undiluted or 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:** Shake or stir Biocot XLP before use. Fill spray or mixing tank half full of water. Begin agitation and pour Biocot XLP 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 72 hours.

The use of a spreader-sticker approved for use on growing crops 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 Biocot XLP, 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.

### SPRAY VOLUMES

**Ground Application:** Use recommended amount of Biocot XLP in ground 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 conditions, spray equipment used and local experience.

**Aerial Application:** Use recommended amount of Biocot XLP in aerial equipment undiluted or with quantities of water sufficient to provide thorough coverage of plant parts to be protected. In the western U.S. 5-10 gallons per acre is the normal minimum; in the eastern regions a minimum of 2-3 gallons is normally used. The minimum amount of water needed per acre will depend upon crop size, weather conditions, spray equipment used and local experience.

| Crop                        | Pests           | Rate (pts/acre) | Special Instruction |
|-----------------------------|-----------------|-----------------|---------------------|
| Cotton<br>Except<br>CA & AZ | Loopers         | 1.0-2.0         |                     |
|                             | Armyworms       | 1.0-3.5         | *                   |
|                             | Cotton Bollworm | 0.5-3.5         | SEE BELOW           |
|                             | Tobacco Budworm |                 |                     |

**Special Instructions:** For early season management of *Heliothis/Helicoverpa* species, initiate applications at pinhead square stage when eggs are present. For best results, application should be timed to coincide with egg hatch. Continue applications on 5 day intervals. Addition of an ovicide may be beneficial. Preservation of beneficial insects should be considered in selecting an ovicide. Applications of Biocot XLP may continue throughout the season. As the larval population increases through the season, increase rates of Biocot XLP, and tank-mix with other larvicides for increased control. When the crop canopy is dense and larvae are feeding in the lower canopy, aerial application of Biocot XLP may not provide adequate deposit for acceptable control. This product can be mixed and used with other pesticides only in accordance with the most restrictive of label limitations and precautions. This product cannot be mixed with any product containing a label prohibition against such mixing. No label dosage rates may be exceeded.

|                     |                        |         |           |
|---------------------|------------------------|---------|-----------|
| Cotton<br>(CA & AZ) | Armyworms              | 1.0-3.5 | *         |
|                     | Cotton Leaf Perforator | 1.0-2.0 |           |
|                     | Cotton Leafworm        |         |           |
|                     | Saltmarsh Caterpillar  |         |           |
|                     | Loopers                | 1.0-2.0 |           |
|                     | Cotton Bollworm        | 1.0-3.5 | SEE BELOW |
| Tobacco Budworm     |                        |         |           |

**Special Instructions:** Repeat as necessary throughout the season to maintain control. If egg laying frequency indicates future moderate to heavy larval populations, time application 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 Biocot XLP may not provide adequate deposit to achieve acceptable control.

|          |                        |          |   |
|----------|------------------------|----------|---|
| Soybeans | Loopers                | 0.5-2.0  |   |
|          | Hornworms              | 0.25-1.0 |   |
|          | Podworms               | 1.0-2.0  |   |
|          | Imported Cabbageworm   |          |   |
|          | Green Cloverworm       |          |   |
|          | Saltmarsh Caterpillar  |          |   |
|          | Soybean Loopers        |          |   |
|          | Velvetbean Caterpillar |          |   |
|          | Armyworms              | 1.0-3.5  | * |
|          | Diamondback Moth       | 0.5-2.0  |   |
|          | European Corn Borer    | 2.0-2.5  |   |
| Cutworms | 1.0-2.5                |          |   |

|         |                        |         |    |
|---------|------------------------|---------|----|
| Peanuts | Green Cloverworm       | 1.0-2.0 |    |
|         | Loopers                |         |    |
|         | Velvetbean Caterpillar |         |    |
|         | Podworms               |         |    |
|         | <i>Heliothis</i> spp.  | 2.0     | ** |

**Special Instructions**

\* Armyworm Control: Biocot XLP 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 insecticides will aid in control.

**STORAGE AND DISPOSAL:**

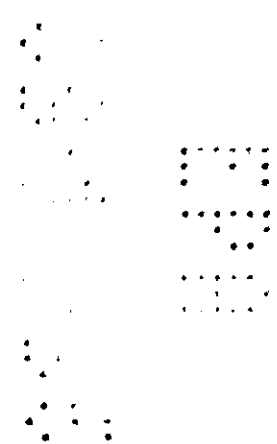
Do not contaminate water, food or feed by storage or disposal of waste.

**Storage:** Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 25 degrees C (77 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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of 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.





United States  
**Environmental Protection Agency**  
 Washington, DC 20460  
**NOTIFICATION**

|                                     |              |
|-------------------------------------|--------------|
| <input type="checkbox"/>            | Registration |
| <input type="checkbox"/>            | Amendment    |
| <input checked="" type="checkbox"/> | Other        |

OPP Identifier Number  
**239640**

**Application for Pesticide - Section I**

|   |  |  |
|---|--|--|
| 1. Company/Product Number<br>58998-17   | 2. EPA Product Manager<br>J. Anderson  | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br>Biobit XLP Flowable Concentrate  | PM# 18   |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br>Novo Nordisk A/S<br>Novo Alle<br>2800 Bagsvaerd<br><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:<br>EPA Reg. No. _____<br>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 4hrs 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<br><input type="checkbox"/> Yes*<br><input type="checkbox"/> No                    | Unit Packaging<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No                            |                                      | <input type="checkbox"/> Metal  | <input type="checkbox"/> Plastic |
|  |   |   |                                      | <input type="checkbox"/> Glass  | <input type="checkbox"/> Paper   |
| * Certification must be submitted  |   | If "Yes" Unit Packaging wgt.  | No. per container                    | Other (Specify) _____   |                                  |
|  |   | If "Yes" Package wgt  | No. per container                    |   |                                  |
| 3. Location of Net Contents Information<br><input type="checkbox"/> Label <input type="checkbox"/> Container |   | 4. Size(s) Retail Container   |                                      | 5. Location of Label Directions<br><input type="checkbox"/> On Label<br><input type="checkbox"/> On Labeling accompanying product |                                  |
| 6. Manner in Which Label is Affixed to Product   |   | <input type="checkbox"/> Lithograph<br><input type="checkbox"/> Paper glued<br><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<br>Carmen M. Sanchez Lopez   | Title<br>Regional Manager<br>Regulatory Affairs  | Telephone No. (Include Area Code)<br>916-757-4758 |
| Certification<br>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<br>(Stamped)         |
| 2. Signature<br>  | 3. Title<br>Regional Manager, Regulatory Affairs |   |
| 4. Typed Name<br>Carmen M. Sanchez Lopez  | 5. Date<br>9-8-95                                |   |



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# KEEP OUT OF REACH OF CHILDREN CAUTION



## DIRECTIONS FOR USE Cont'd

**ACTIVE INGREDIENT** *Bacillus thuringiensis* subspecies *kurstaki*, Lepidopteran Active Toxin... 3.3%  
 Inert Ingredients.....96.7%  
 TOTAL.....100%

**POTENCY:** 16,700 International Units (IU)/mg of product (equivalent to 76 billion IU/GAL.). Potency units should not be used to adjust use rates beyond those specified in the directions for use sections.

### PRECAUTIONARY STATEMENTS:

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes, open wounds or clothing. Causes moderate eye irritation.

### 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, and 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 agricultural 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.

### STATEMENTS OF PRACTICAL TREATMENT: *If on Skin:*

Wash with plenty of soap and water. Get medical attention. *If in Eyes:* Flush with plenty of water. Call a physician if eye irritation persists.

### DIRECTIONS FOR USE FOR AGRICULTURAL APPLICATIONS:

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

**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.

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.

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 25 degrees C (77 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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of 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.

EPA Registration No. 58998 17  
 EPA Est. No. 58998-DN-002

**MANUFACTURED FOR:**  
 Novo Nordisk  
 33 Turner Road, Danbury, CT 06813 1907

NET CONTENTS  
 U.S. Gallons

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.

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

#### **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 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.

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.

#### **APPLICATION**

Biobit XLP may be applied by ground or aerial equipment undiluted or 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**

Shake or stir Biobit XLP before use. Fill spray or mixing tank half full of water. Begin agitation and pour Biobit XLP 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 72 hours.

The use of a spreader-sticker approved for use on growing crops 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 XLP, 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.

## SPRAY VOLUMES

**Ground Application:** Use recommended amount of Biobit XLP in ground 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 conditions, spray equipment used and local experience.

**Aerial Application:** Use recommended amount of Biobit XLP in aerial equipment undiluted or with quantities of water sufficient to provide thorough coverage of plant parts to be protected. In the western U.S. 5-10 gallons per acre is the normal minimum; in the eastern regions a minimum of 2-3 gallons is normally used. The minimum amount of water needed per acre will depend upon crop size, weather conditions, spray equipment used and local experience.

## GENERAL AGRICULTURAL USE INSTRUCTIONS

Biobit XLP is a biological insecticide for the control of lepidopterous larvae. It contains the spores and endotoxin crystals of *Bacillus thuringiensis kurstaki*. Biobit XLP 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 XLP cease feeding within a few hours and die within 2-5 days.

Biobit XLP 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 XLP 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 GROUP          |  |                                  |                     |                         |
|---------------------|--|----------------------------------|---------------------|-------------------------|
| FORAGE, FODDER, HAY |  |                                  |                     |                         |
|                     | Crop   | Pests                            | Rate<br>(pts./acre) | Special<br>Instructions |
|                     | Alfalfa (Hay & Seed) and Other Non-grass Animal Feeds, Grasses Grown For Feed (pasture, ranges, hay or silage) | Alfalfa Caterpillar Loopers      | 0.5-2.0             |                         |
|                     |  | Armyworms                        | 1.0-3.5             | *                       |
|                     |  | European Skipper (Essex Skipper) | 1.0-2.0             |                         |

| CROP GROUP    |  |   |                     |                         |
|---------------|--|---|---------------------|-------------------------|
| FRUITS & NUTS |  |   |                     |                         |
|               | Crop   | Pests   | Rate<br>(pts./acre) | Special<br>Instructions |
|               | Pome and Stone Fruit Trees such as: Apples, Pears, Quince, Apricots, Cherries, Nectarines, Peaches, Plums, Prunes.<br><br>Nut Trees such as: Almonds, Filbert, Chestnuts, Walnuts, Pecans. | Citrus Cutworm<br>Navel Orangeworm<br>Redhumped Caterpillar<br>Tent Caterpillars<br>Omnivorous Leafroller<br>Tortrix Moths<br>Cankerworms<br>Peach Twig Borer<br>Fruittree Leafroller<br>Gypsy Moth<br>Tufted Apple Budmoth<br>Fall Webworm<br>Variegated Leafroller<br>Redbanded Leafroller<br>Walnut Caterpillar<br>Codling Moth<br>Cutworms<br>Filbert Leafroller<br>Oblique Banded Leafroller | 1.0-3.5             |                         |
|               |  | Filbert Webworm   | 1.0-2.0             |                         |
|               |  | Roughskinned Cutworm  | 0.5-1.0             |                         |



|  | Crop  | Pests  | Rate<br>(pts./acre)   | Special<br>Instructions |  |
|--|---|--|---|-------------------------|--|
|  | Citrus  | Orangedog  | 0.5-2.0   |                         |  |
|  |   | Fruittree Leafroller<br>Citrus Cutworm   | 1.0-3.5   |                         |  |
|  |   | Amorbia  | 2.0-2.5   | ** See Below            |  |
|  | Small Fruit<br>and Berries<br>such as:<br><br>Blackberries,<br>Blueberries,<br>Currants,<br>Raspberries,<br>Strawberries,<br>Cranberries. | Gypsy Motn<br>Blueberry Leafroller<br>Loopers<br>Fruittree Leafroller<br>Grape Berry Moth<br>Oblique Banded Leafroller<br>Achema Sphinx Moth<br>(Hornworm) | 1.0-2.0   |                         |  |
|  |   | Armyworms  | 1.0-3.5   | *                       |  |
|  |   | Tobacco Budworm  | 3.5   | **See Below             |  |
|  |   | Grapes   | Cherry Fruitworm<br>Green Fruitworm   | 0.5-1.0                 |  |
|  |   |  | Grape Leaf folder<br>Grapeleaf Skeletonizer<br>Omnivorous Leafroller<br>Orange Tortrix<br>Saltmarsh Caterpillar | 1.0-2.5                 |  |

CROP GROUP

OTHER FRUITS

|  | Crop               | Pests  | Rate<br>(pts./acre) | Special<br>Instructions |
|--|--------------------|--|---------------------|-------------------------|
|  | Bananas            | Banana Skipper   | 1.0-2.0             |                         |
|  | Tropical<br>Fruits | Hornworms<br>Leafrollers<br>Loopers<br>Omnivorous Looper | 1.0-3.5             |                         |
|  | Kiwi               | Omnivorous Leafroller                                    | 1.0-3.5             |                         |

|  | Crop      | Pests  | Rate<br>(pts./acre) | Special<br>Instructions |
|--|-----------|--|---------------------|-------------------------|
|  | Pineapple | Gummosis- <i>Batrachedra<br/>commosae</i> (Hodges)<br><i>Thecla-Thecla basilides</i><br>(Geyr) | 0.5-1.0             |                         |
|  | Melons    | (See Vegetable Crops,<br>Cucurbits)  |                     |                         |

CROP GROUPS

VEGETABLES AND  
COLE CROPS

|  | Crop   | Pests  | Rate<br>(pts./acre) | Special<br>Instructions |
|--|--|--|---------------------|-------------------------|
|  | Root & Tuber<br>Vegetables,<br>and leaves of<br>Root and Tuber<br>vegetables<br>such as:<br>Beets, Carrot,<br>Horseradish,<br>Radish, Potato<br>Sweet Potato,<br>Turnip and<br>Turnip Greens,<br>Sugarbeets. | Imported Cabbageworm<br>Green Cloverworm       | 0.5-2.0             |                         |
|  |  | Hornworms                                      | 0.25-2.0            |                         |
|  |  | Cutworms<br>Loopers<br>Webworms                | 1.0-2.0             |                         |
|  |  | Saltmarsh Caterpillar<br>Omnivorous Leafroller |                     |                         |
|  |  | Armyworms                                      | 1.0-3.5             | *                       |
|  |  | Diamondback Moth                               | 0.5-2.0             |                         |
|  |  | European Corn Borer                            | 2.0-2.5             |                         |
|  |  | Alfalfa Caterpillar                            | 0.25-0.5            |                         |

| Crop   | Pests  | Rate<br>(pts./acre) | Special<br>Instructions |
|--|--|---------------------|-------------------------|
| Bulb<br>Vegetables<br><br>such as:<br>Garlic, Leeks,<br>Onions, Shallot  | Saltmarsh Caterpillar<br>Omnivorous Leafroller<br>Webworms   | 1.0-2.0             |                         |
|  | -----<br>Hornworms   | 0.25-2.0            |                         |
|  | -----<br>Imported Cabbageworm<br>Green Cloverworm<br>Loopers | 0.5-2.0             |                         |
|  | -----<br>Cutworms  | 1.0-2.0             |                         |
|  | -----<br>Armyworms   | 1.0-3.5             | *                       |
|  | -----<br>Diamondback Moth                                    | 0.5-1.0             |                         |
|  | -----<br>European Corn Borer                                 | 2.0-2.5             |                         |
|  | -----<br><i>Heliothis</i> spp.                               | 2.0                 | Suppression<br>Only **  |
| Leafy<br>vegetables<br>such as:<br><br>Celery,<br>Lettuce (Head<br>and Leaf),<br>Parsley,<br>Endive,<br>Spinach,<br>Kale | Imported Cabbageworm<br>Green Cloverworm                     | 0.5-2.0             |                         |
|  | -----<br>Hornworms   | 0.25-2.0            |                         |
|  | -----<br>Cutworms<br>Webworms                                | 1.0-2.0             |                         |
|  | -----<br>Loopers   |                     |                         |
|  | -----<br>Diamondback Moth                                    | 0.5-2.0             |                         |
|  | -----<br>Saltmarsh Caterpillar<br>Omnivorous Leafroller      | 1.0-2.0             |                         |
|  | -----<br>Armyworms   | 1.0-3.5             | *                       |
|  | -----<br>European Corn Borer                                 | 2.0-2.5             |                         |

|  | Crop  | Pests  | Rate<br>(pts./acre)  | Special<br>Instructions |
|--|---|--|--|-------------------------|
|  | Legume and foliage of Legume vegetables, such as:<br>Lentils,<br>Peas,<br>Beans,  | Loopers<br>-----<br>Hornworms<br>-----<br>Podworms<br>Imported Cabbageworm<br>Green Cloverworm<br>Saltmarsh Caterpillar<br>Soybean Loopers<br>Velvetbean Caterpillar<br>-----<br>Armyworms<br>-----<br>Diamondback Moth<br>-----<br>European Corn Borer<br>-----<br>Cutworms | 0.5-2.0<br>-----<br>0.25-1.0<br>-----<br>1.0-2.0<br>-----<br>1.0-3.5<br>-----<br>0.5-2.0<br>-----<br>2.0-2.5<br>-----<br>1.0-2.5 | *<br>-----<br>*         |
|  | Fruiting Vegetables such as:<br>Eggplant,<br>Peppers,<br>Tomatoes.  | Imported Cabbageworm<br>Diamondback Moth<br>Green Cloverworm<br>-----<br>Hornworms<br>-----<br>Tomato Fruitworm ( <i>Heliothis</i> )<br>Variegated Cutworm<br>Saltmarsh Caterpillar<br>Loopers<br>-----<br>Armyworms<br>-----<br>European Corn Borer                         | 0.5-1.0<br>-----<br>0.25-2.0<br>-----<br>1.0-2.0<br>-----<br>1.0-3.5<br>-----<br>2.0-2.5   | *<br>-----<br>*         |
|  | Brassica (cole) vegetables such as:<br>Broccoli,<br>Brussels sprouts,<br>Cabbage,<br>Cauliflower,<br>Collards,<br>Kohlrabi. | Hornworms<br>-----<br>Webworms<br>Loopers<br>Cutworms<br>Saltmarsh Caterpillar<br>Omnivorous leafroller<br>-----<br>Diamondback Moth<br>Imported Cabbageworm<br>Green Cloverworm<br>-----<br>Armyworms<br>-----<br>European Corn Borer                                       | 0.25-2.0<br>-----<br>1.0-2.0<br>-----<br>0.5-2.0<br>-----<br>1.0-3.5<br>-----<br>2.0-2.5   | *<br>-----<br>*         |

| Crop   | Pests                 | Rate<br>(pts./acre) | Special<br>Instructions |
|--|-----------------------|---------------------|-------------------------|
| Cucurbit<br>vegetables<br>such as:<br>Cucumbers,<br>Melons,<br>Pumpkins,<br>Squash,<br>Watermelon. | Imported Cabbageworm  | 0.5-2.0             |                         |
|  | Green Cloverworm      |                     |                         |
|  | Diamondback Moth      |                     |                         |
|  | Loopers               |                     |                         |
|  | Saltmarsh Caterpillar |                     |                         |
|  | Melonworm             |                     |                         |
|  | Pickleworm            |                     |                         |
|  | Rindworm complex      |                     |                         |
|  | -----                 |                     |                         |
|  | Armyworms             | 1.0-3.5             | *                       |
|  | -----                 |                     |                         |
|  | European Corn Borer   | 2.0-2.5             |                         |
|  | -----                 |                     |                         |
|  | Hornworms             | 0.25-1.0            |                         |

**OTHER VEGETABLES**

| Crop       | Pests                   | Rate<br>(pts./acre) | Special<br>Instructions |
|------------|-------------------------|---------------------|-------------------------|
| Artichokes | Artichoke Plume Moth    | 1.0-2.5             |                         |
|            | -----                   |                     |                         |
|            | Armyworms               | 1.0-2.5             | *                       |
|            | -----                   |                     |                         |
|            | Loopers                 | 0.5-2.5             |                         |
| Asparagus  | Armyworms               | 1.0-3.5             | *                       |
|            | -----                   |                     |                         |
|            | Diamondback Moth        | 0.5-1.0             |                         |
|            | Green Cloverworm        |                     |                         |
|            | Imported Cabbageworm    |                     |                         |
|            | -----                   |                     |                         |
|            | Loopers                 | 0.5-2.0             |                         |
| Malanga    | Armyworms               | 1.0-3.5             | *                       |
|            | -----                   |                     |                         |
|            | Saltmarsh Caterpillar   | 1.0-2.0             |                         |
| Watercress | Loopers                 | 0.5-1.7             |                         |
|            | Diamondback Moth        |                     |                         |
|            | -----                   |                     |                         |
|            | Armyworms               | 1.0-3.5             | *                       |
|            | -----                   |                     |                         |
|            | Green Cloverworm        | 0.5-1.0             |                         |
|            | Imported Cabbageworm    |                     |                         |
|            | -----                   |                     |                         |
|            | Saltmarsh Caterpillar   | 1.0-2.0             |                         |
|            | -----                   |                     |                         |
|            | European Corn Borer     | 2.0-2.5             |                         |
| Sweet Corn | (see Other Crops, Corn) |                     |                         |

4-30

| CROP GROUP          |   |                      |                     |                    |
|---------------------|---|----------------------|---------------------|--------------------|
| HERBS SPICES, MINTS |   |                      |                     |                    |
|                     | Crop  | Pests                | Rate<br>(pts./acre) | Spec. Instructions |
|                     | Such as:<br>Basil, Dill,<br>Oregano,<br>Thyme,<br>Peppermint. | Loopers              | 0.5-2.0             |                    |
|                     |   | Diamondback Moth     | 0.5-1.0             |                    |
|                     |   | Green Cloverworm     |                     |                    |
|                     |   | Imported Cabbageworm |                     |                    |
|                     |   | Armyworms            | 1.0-3.5             | *                  |
|                     |   | European Corn Borer  | 2.0-2.5             |                    |

| CROP GROUP  |          |                        |                     |                      |
|-------------|----------|------------------------|---------------------|----------------------|
| OTHER CROPS |          |                        |                     |                      |
|             | Crop     | Pests                  | Rate<br>(pts./acre) | Special Instructions |
|             | Avocados | Loopers                | 2.0-2.5             |                      |
|             |          | Orange Tortrix         | 1.0-3.5             |                      |
|             |          | Omnivorous Leafroller  |                     |                      |
|             |          | Omnivorous Looper      |                     |                      |
|             |          | Spanworm               |                     |                      |
|             |          | Amorbia                | 1.0-3.5             | Suppression Only **  |
|             | Rice     | Armyworms              | 1.0-2.5             | *                    |
|             |          | Loopers                | 1.0-2.0             |                      |
|             |          | Saltmarsh Caterpillar  |                     |                      |
|             |          | Cutworms               | 1.0-2.5             |                      |
|             |          | Green Cloverworm       | 0.5-1.0             |                      |
|             |          | Velvetbean Caterpillar |                     |                      |
|             |          | <i>Heliothis</i> spp.  | 2.0                 | Suppression Only **  |

|  | Crop                       | Pests   | Rate<br>(lbs./acre)                             | Special<br>Instructions                           |
|--|----------------------------|---|---|---|
|  | Hops                       | Armyworms<br>-----<br>Loopers<br>-----<br>Omnivorous Leaf-tier<br>Spotted Cutworm<br>Oblique Banded Leafroller                    | 1.0-3.5<br>-----<br>0.5-2.0<br>-----<br>1.0-2.0 | *   |
|  | Jojoba                     | Looper ( <i>Anacamptodes</i> spp.)  | 1.0-2.0   |   |
|  | Persimmons,<br>Pomegranate | Fall Webworm<br>Filbert Webworm<br>Omnivorous Leafroller<br>Redhumped Caterpillar<br>Tent Caterpillars<br>-----<br>Citrus Cutworm | 1.0-2.0<br>-----<br>1.0-2.5                     |   |
|  | Safflower                  | Armyworms<br>-----<br>Loopers<br>Saltmarsh Caterpillar  | 1.0-3.5<br>-----<br>1.0-2.0                     | *   |
|  | Sorghum                    | Headworm  | 1.0-2.0   |   |
|  | Sunflowers                 | Headmoth<br>Loopers   | 1.0-2.0   |   |
|  | Small Grains               | Armyworms<br>-----<br>Loopers   | 1.0-3.5<br>-----<br>1.0-2.0                     | *   |
|  | Tobacco                    | Tobacco Hornworm<br>-----<br>Loopers<br>-----<br>Tobacco Budworm  | 0.25-1.0<br>-----<br>0.5-2.0<br>-----<br>2.0    | -----<br>-----<br>-----<br>Suppression<br>Only ** |

CROP GROUP  
 FLOWERS BEDDING PLANTS,  
 AND ORNAMENTALS

| Crop   | Pests   | Rate<br>(pts./acre) | Special<br>Instructions |
|--|---|---------------------|-------------------------|
| Ornamentals<br>Flowers,<br>Bedding<br>Plants | Armyworms   | 1.0-3.5             | *                       |
|  | Azalea Moth<br>Diamondback Moth<br>Ello Moth (Hornworm)<br>Io Moth<br>Loopers<br>Oleander Moth<br>Omnivorous Leafroller<br>Omnivorous Looper<br>Tobacco Budworm | 0.5-1.0             |                         |

CROP GROUP  
 GREENHOUSE,  
 AND OUTDOOR NURSERY CROPS

| Crop  | Pests                              | Rate<br>(pts./acre) | Special<br>Instructions |
|---|------------------------------------|---------------------|-------------------------|
| Such as:<br>Flowers,<br>Brassica,<br>Fruiting<br>Groups,<br>Herbs,<br>and Leafy | Armyworms<br><i>Heliothis</i> spp. | 1.0-3.5             | *                       |
|   | Loopers                            | 1.0-2.0             |                         |



| CROP GROUP   |  |  |                                 |                                   |
|--|--|--|---------------------------------|-----------------------------------|
| Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees |  |  |                                 |                                   |
|  | Crop   | Pests  | Rate <sup>1</sup><br>(oz./acre) | Dosage <sup>1</sup><br>(BIU/acre) |
|  | Forests,<br>Shade Trees,<br>Ornamentals,<br>Shrubs,<br>Sugar Maple<br>Trees,<br>Seed Orchards,<br>Ornamental<br>Fruit,<br>Nut & Citrus<br>Trees <sup>2</sup> | Gypsy Moth<br>Elm Spanworm   | 13.5- 67.5                      | 8 - 40                            |
|  |  | Spruce Budworm<br>Browntail Moth<br>Douglas fir tussock moth<br>coneworm<br>Buck moth  | 13.5-50.5                       | 8 - 30                            |
|  |  | Tussock Moths<br>Pine Butterfly<br>Bagworm<br>Leafrollers<br>Tortrix<br>Mimosa Webworm<br>Tent Caterpillar<br>Jackpine Budworm<br>Blackheaded Budworm<br>Saddled Prominent<br>Saddleback Caterpillar<br>Eastern & Western hemlock<br>looper<br>Orangestriped oakworm<br>Satin Moth | 10.0-27.0                       | 6 - 16                            |
|  |  | Redhumped Caterpillars<br>Spring & Fall Cankerworm<br>California Oakworm<br>Fall Webworm   | 7.0-13.5                        | 4 - 8                             |

### Special Instructions

- \* Armyworm Control: Biobit XLP 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 added 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.

<sup>1</sup> Use the higher recommended rates on advanced larval stages or under high density larval populations.

<sup>2</sup> In treating gypsy moth infested trees and shrubs in urban, rural, and semi-rural areas, exposure of non-target vegetation including, but not limited to, native and ornamental species and food or feed crops is permitted.

58998 17 9/1/95

18131

Please read instructions on reverse before completing form.

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



United States  
Environmental Protection Agency  
Washington, DC 20460  
NOTIFICATION

Registration  
 Amendment  
 Other

OPP Identifier Number  
239632

Application for Pesticide - Section I

|   |  |  |
|---|--|--|
| 1. Company/Product Number<br>58998-17   | 2. EPA Product Manager<br>J. Anderson  | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br>Foray 76B Flowable Concentrate   | PM#<br>13  |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br>Novo Nordisk A/S<br>Novo Alle<br>2800 Bagsvaerd<br><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:<br>EPA Reg. No. _____<br>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 4hrs 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<br><input type="checkbox"/> Yes*<br><input type="checkbox"/> No   | Unit Packaging<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><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<br><input type="checkbox"/> Label <input type="checkbox"/> Container  |   | 4. Size(s) Retail Container  |   | 5. Location of Label Directions<br><input type="checkbox"/> On Label<br><input type="checkbox"/> On Labeling accompanying product |                                  |
| 6. Manner in Which Label is Affixed to Product<br><input type="checkbox"/> Lithograph<br><input type="checkbox"/> Paper glued<br><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<br>Carmen M. Sanchez Lopez, Ph.D.  | Title<br>Regional Manager<br>Regulatory Affairs | Telephone No. (Include Area Code)<br>916-757-4738  |
| 2. Signature<br>  |   | 3. Title<br>Regional Manager<br>Regulatory Affairs |
| 4. Typed Name<br>Carmen M. Sanchez Lopez, Ph.D.   | 5. Date<br>9-8-95                               |  |
| Certification<br>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<br>(Stamped)          |



Foray<sup>®</sup> is the Registered Trademark of Novo Nordisk A/S

# KEEP OUT OF REACH OF CHILDREN CAUTION



**ACTIVE INGREDIENT** *Bacillus thuringiensis* subspecies *kurstaki*, Lepidopteran Active Toxin.....3.3%  
 Inert Ingredients.....96.7%  
**TOTAL**.....100%

**POTENCY:** 16,700 International Units (IU)/mg of product (equivalent to 76 billion IU/GAL.). Potency units should not be used to adjust use rates beyond those specified in the directions for use sections.

### PRECAUTIONARY STATEMENTS:

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes, open wounds or clothing. Causes moderate eye irritation.

### 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, and 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 agricultural 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.

**STATEMENTS OF PRACTICAL TREATMENT:** *If on Skin:* Wash with plenty of soap and water. Get medical attention. *If in Eyes:* Flush with plenty of water. Call a physician if eye irritation persists.

### DIRECTIONS FOR USE FOR AGRICULTURAL APPLICATIONS:

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

### DIRECTIONS FOR USE Cont'd

*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.

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.

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 25 degrees C (77 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:* Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of 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.

## BEST COPY AVAILABLE

EPA Registration No. 58998-17  
 EPA Est. No. 58998-DN-002  
 9XLE75817-941

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

**NET CONTENTS**  
 U.S. Gallons

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.

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

#### **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 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.

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.

#### **APPLICATION**

Foray 76B may be applied by ground or aerial equipment undiluted or 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**

Shake or stir Foray 76B before use. Fill spray or mixing tank half full of water. Begin agitation and pour Foray 76B 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 72 hours.

The use of a spreader-sticker approved for use on growing crops 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 Foray 76B, 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.

## SPRAY VOLUMES

**Ground Application:** Use recommended amount of Foray 76B in ground 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 conditions, spray equipment used and local experience.

**Aerial Application:** Use recommended amount of Foray 76B in aerial equipment undiluted or with quantities of water sufficient to provide thorough coverage of plant parts to be protected. In the western U.S. 5-10 gallons per acre is the normal minimum; in the eastern regions a minimum of 2-3 gallons is normally used. The minimum amount of water needed per acre will depend upon crop size, weather conditions, spray equipment used and local experience.

## GENERAL AGRICULTURAL USE INSTRUCTIONS

Foray 76B is a biological insecticide for the control of lepidopterous larvae. It contains the spores and endotoxin crystals of *Bacillus thuringiensis kurstaki*. Foray 76B 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 Foray 76B cease feeding within a few hours and die within 2-5 days.

Foray 76B 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 Foray 76B 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 GROUP          |  |                                  |                     |                         |
|---------------------|--|----------------------------------|---------------------|-------------------------|
| FORAGE, FODDER, HAY |  |                                  |                     |                         |
|                     | Crop   | Pests                            | Rate<br>(pts./acre) | Special<br>Instructions |
|                     | Alfalfa (Hay & Seed) and Other Non-grass Animal Feeds, Grasses Grown For Feed (pasture, ranges, hay or silage) | Alfalfa Caterpillar Loopers      | 0.5-2.0             |                         |
|                     |  | Armyworms                        | 1.0-3.5             | *                       |
|                     |  | European Skipper (Essex Skipper) | 1.0-2.0             |                         |

| CROP GROUP    |  |   |                     |                         |
|---------------|--|---|---------------------|-------------------------|
| FRUITS & NUTS |  |   |                     |                         |
|               | Crop   | Pests   | Rate<br>(pts./acre) | Special<br>Instructions |
|               | Pome and Stone Fruit Trees such as: Apples, Pears, Quince, Apricots, Cherries, Nectarines, Peaches, Plums, Prunes.<br><br>Nut Trees such as: Almonds, Filbert, Chestnuts, Walnuts, Pecans. | Citrus Cutworm<br>Navel Orangeworm<br>Redhumped Caterpillar<br>Tent Caterpillars<br>Omnivorous Leafroller<br>Tortrix Moths<br>Cankerworms<br>Peach Twig Borer<br>Fruittree Leafroller<br>Gypsy Moth<br>Tufted Apple Budmoth<br>Fall Webworm<br>Variegated Leafroller<br>Redbanded Leafroller<br>Walnut Caterpillar<br>Codling Moth<br>Cutworms<br>Filbert Leafroller<br>Oblique Banded Leafroller | 1.0-3.5             |                         |
|               |  | Filbert Webworm   | 1.0-2.0             |                         |
|               |  | Roughskinned Cutworm  | 0.5-1.0             |                         |

| Crop  | Pests   | Rate<br>(pts./acre)              | Special<br>Instructions |   |
|---|---|----------------------------------|-------------------------|---|
| Citrus  | Orangedog   | 0.5-2.0                          |                         |   |
|   | Fruittree Leafroller<br>Citrus Cutworm  | 1.0-3.5                          |                         |   |
|   | Amorbia   | 2.0-2.5                          | ** See Below            |   |
| Small Fruit<br>and Berries<br>such as:<br><br>Blackberries,<br>Blueberries,<br>Currants,<br>Raspberries,<br>Strawberries,<br>Cranberries. | Gypsy Moth  | 1.0-2.0                          |                         |   |
|   | Blueberry Leafroller  |                                  |                         |   |
|   | Loopers   |                                  |                         |   |
|   | Grapes  | Fruittree Leafroller             | 1.0-3.5                 | * |
|   |   | Grape Berry Moth                 |                         |   |
|   |   | Oblique Banded Leafroller        |                         |   |
|   |   | Achema Sphinx Moth<br>(Hornworm) |                         |   |
|   | Armyworms   | 1.0-3.5                          | *                       |   |
|   | Tobacco Budworm   | 3.5                              | **See Below             |   |
|   | Cherry Fruitworm<br>Green Fruitworm   | 0.5-1.0                          |                         |   |
|   | Grape Leaf folder<br>Grapeleaf Skeletonizer<br>Omnivorous Leafroller<br>Orange Tortrix<br>Saltmarsh Caterpillar | 1.0-2.5                          |                         |   |

CROP GROUP

OTHER FRUITS

| Crop               | Pests  | Rate<br>(pts./acre) | Special<br>Instructions |
|--------------------|--|---------------------|-------------------------|
| Bananas            | Banana Skipper   | 1.0-2.0             |                         |
| Tropical<br>Fruits | Hornworms<br>Leafrollers<br>Loopers<br>Omnivorous Looper | 1.0-3.5             |                         |
| Kiwi               | Omnivorous Leafroller                                    | 1.0-3.5             |                         |

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|  | Crop      | Pests   | Rate<br>(pts./acre) | Special<br>Instructions |
|--|-----------|---|---------------------|-------------------------|
|  | Pineapple | <i>Gummosos-Batrachedra<br/>commosae</i> (Hodges)<br><i>Thecla-Thecla basilides</i><br>(Geyr) | 0.5-1.0             |                         |
|  | Melons    | (See Vegetable Crops,<br>Cucurbits)   |                     |                         |

| CROP GROUPS                  |  |   |                     |                         |
|------------------------------|--|---|---------------------|-------------------------|
| VEGETABLES AND<br>COLE CROPS |  |   |                     |                         |
|                              | Crop   | Pests   | Rate<br>(pts./acre) | Special<br>Instructions |
|                              | Root & Tuber<br>Vegetables,<br>and leaves of<br>Root and Tuber<br>vegetables<br>such as:<br>Beets, Carrot,<br>Horseradish,<br>Radish, Potato<br>Sweet Potato,<br>Turnip and<br>Turnip Greens,<br>Sugarbeets. | Imported Cabbageworm<br>Green Cloverworm  | 0.5-2.0             |                         |
|                              |  | Hornworms   | 0.25-2.0            |                         |
|                              |  | Cutworms<br>Loopers<br>Webworms<br>Saltmarsh Caterpillar<br>Omnivorous Leafroller | 1.0-2.0             |                         |
|                              |  | Armyworms   | 1.0-3.5             | *                       |
|                              |  | Diamondback Moth  | 0.5-2.0             |                         |
|                              |  | European Corn Borer   | 2.0-2.5             |                         |
|                              |  | Alfalfa Caterpillar   | 0.25-0.5            |                         |



| Crop   | Pests  | Rate<br>(lbs./acre) | Special<br>Instructions |
|--|--|---------------------|-------------------------|
| Bulb<br>Vegetables<br><br>such as:<br>Garlic, Leeks,<br>Onions, Shallot  | Saltmarsh Caterpillar<br>Omnivorous Leafroller<br>Webworms | 1.0-2.0             |                         |
|  | Hornworms  | 0.25-2.0            |                         |
|  | Imported Cabbageworm<br>Green Cloverworm<br>Loopers        | 0.5-2.0             |                         |
|  | Cutworms   | 1.0-2.0             |                         |
|  | Armyworms  | 1.0-3.5             | *                       |
|  | Diamondback Moth   | 0.5-1.0             |                         |
|  | European Corn Borer  | 2.0-2.5             |                         |
|  | <i>Heliothis</i> spp.                                      | 2.0                 | Suppression<br>Only **  |
| Leafy<br>vegetables<br>such as:<br><br>Celery,<br>Lettuce (Head<br>and Leaf),<br>Parsley,<br>Endive,<br>Spinach,<br>Kale | Imported Cabbageworm<br>Green Cloverworm                   | 0.5-2.0             |                         |
|  | Hornworms  | 0.25-2.0            |                         |
|  | Cutworms<br>Webworms                                       | 1.0-2.0             |                         |
|  | Loopers<br>Diamondback Moth                                | 0.5-2.0             |                         |
|  | Saltmarsh Caterpillar<br>Omnivorous Leafroller             | 1.0-2.0             |                         |
|  | Armyworms  | 1.0-3.5             | *                       |
|  | European Corn Borer  | 2.0-2.5             |                         |



| Crop   | Pests                 | Rate<br>(pts./acre) | Special<br>Instructions |
|--|-----------------------|---------------------|-------------------------|
| Cucurbit<br>vegetables<br>such as:<br>Cucumbers,<br>Melons,<br>Pumpkins,<br>Squash,<br>Watermelon. | Imported Cabbageworm  | 0.5-2.0             |                         |
|  | Green Cloverworm      |                     |                         |
|  | Diamondback Moth      |                     |                         |
|  | Loopers               |                     |                         |
|  | Saltmarsh Caterpillar |                     |                         |
|  | Melonworm             |                     |                         |
|  | Pickleworm            |                     |                         |
|  | Rindworm complex      |                     |                         |
|  | Armyworms             | 1.0-3.5             | *                       |
|  | European Corn Borer   | 2.0-2.5             |                         |
|  | Hornworms             | 0.25-1.0            |                         |

**OTHER VEGETABLES**

| Crop       | Pests                   | Rate<br>(pts./acre) | Special<br>Instructions |
|------------|-------------------------|---------------------|-------------------------|
| Artichokes | Artichoke Plume Moth    | 1.0-2.5             |                         |
|            | Armyworms               | 1.0-2.5             | *                       |
|            | Loopers                 | 0.5-2.5             |                         |
| Asparagus  | Armyworms               | 1.0-3.5             | *                       |
|            | Diamondback Moth        | 0.5-1.0             |                         |
|            | Green Cloverworm        |                     |                         |
|            | Imported Cabbageworm    |                     |                         |
|            | Loopers                 | 0.5-2.0             |                         |
| Malanga    | Armyworms               | 1.0-3.5             | *                       |
|            | Saltmarsh Caterpillar   | 1.0-2.0             |                         |
| Watercress | Loopers                 | 0.5-1.7             |                         |
|            | Diamondback Moth        |                     |                         |
|            | Armyworms               | 1.0-3.5             | *                       |
|            | Green Cloverworm        | 0.5-1.0             |                         |
|            | Imported Cabbageworm    |                     |                         |
|            | Saltmarsh Caterpillar   | 1.0-2.0             |                         |
|            | European Corn Borer     | 2.0-2.5             |                         |
| Sweet Corn | (see Other Crops, Corn) |                     |                         |

| CROP GROUP           |   |                      |                     |                         |
|----------------------|---|----------------------|---------------------|-------------------------|
| HERBS, SPICES, MINTS |   |                      |                     |                         |
|                      | Crop  | Pests                | Rate<br>(pts./acre) | Special<br>Instructions |
|                      | Such as:<br>Basil, Dill,<br>Oregano,<br>Thyme,<br>Peppermint. | Loopers              | 0.5-2.0             |                         |
|                      |   | Diamondback Moth     | 0.5-1.0             |                         |
|                      |   | Green Cloverworm     |                     |                         |
|                      |   | Imported Cabbageworm |                     |                         |
|                      |   | Armyworms            | 1.0-3.5             | *                       |
|                      |   | European Corn Borer  | 2.0-2.5             |                         |

| CROP GROUP  |          |                        |                     |                         |
|-------------|----------|------------------------|---------------------|-------------------------|
| OTHER CROPS |          |                        |                     |                         |
|             | Crop     | Pests                  | Rate<br>(pts./acre) | Special<br>Instructions |
|             | Avocados | Loopers                | 2.0-2.5             |                         |
|             |          | Orange Tortrix         | 1.0-3.5             |                         |
|             |          | Omnivorous Leafroller  |                     |                         |
|             |          | Omnivorous Looper      |                     |                         |
|             |          | Spanworm               |                     |                         |
|             |          | Amorbia                | 1.0-3.5             | Suppression<br>Only **  |
|             | Rice     | Armyworms              | 1.0-2.5             | *                       |
|             |          | Loopers                | 1.0-2.0             |                         |
|             |          | Saltmarsh Caterpillar  |                     |                         |
|             |          | Cutworms               | 1.0-2.5             |                         |
|             |          | Green Cloverworm       | 0.5-1.0             |                         |
|             |          | Velvetbean Caterpillar |                     |                         |
|             |          | <i>Heliothis</i> spp.  | 2.0                 | Suppression<br>Only **  |

| Crop                    | Pests                              | Rate (pt s./acre) | Special Instructions |
|-------------------------|------------------------------------|-------------------|----------------------|
| Cotton (Except CA & AZ) | Loopers                            | 1.0-2.0           |                      |
|                         | Armyworms                          | 1.0-3.5           | *                    |
|                         | Cotton Bollworm<br>Tobacco Budworm | 0.5-3.5           | See Below            |

Special Instructions: For early season management of *Heliothis/Helicoverpa* species, initiate applications at pinhead square stage when eggs are present. For best results, application should be timed to coincide with egg hatch. Continue applications on 5 day intervals. Addition of an ovicide may be beneficial. Preservation of beneficial insects should be considered in selecting an ovicide. Applications of Foray 76B may continue throughout the season. As the larval population increases through the season, increase rates of Foray 76B, and tank-mix with other larvicides for increased control. When the crop canopy is dense and larvae are feeding in the lower canopy, aerial application of Foray 76B may not provide adequate deposit for acceptable control. This product can be mixed and used with other pesticides only in accordance with the most restrictive of label limitations and precautions. This product cannot be mixed with any product containing a label prohibition against such mixing. No label dosage rates may be exceeded.

|                  |  |         |           |
|------------------|--|---------|-----------|
| Cotton (CA & AZ) | Armyworms  | 1.0-3.5 | *         |
|                  | Cotton Leaf Perforator<br>Cotton Leafworm<br>Saltmarsh Caterpillar | 1.0-2.0 |           |
|                  | Loopers  | 1.0-2.0 |           |
|                  | Cotton Bollworm<br>Tobacco Budworm                                 | 1.0-3.5 | See Below |

Special Instructions: Repeat as necessary throughout the season to maintain control. If egg laying frequency indicates future moderate to heavy larval populations, time application 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 Foray 76B may not provide adequate deposit to achieve acceptable control.

|   |   |         |                 |
|---|---|---------|-----------------|
| Canola/Rape Seed                              | Armyworms                                 | 1.0-3.5 | *               |
|   | Diamondback Moth                          | 0.5-1.0 |                 |
|   | Loopers                                   | 1.0-2.0 |                 |
|   | <i>Heliothis</i> spp.                     | 1.0-3.5 |                 |
| Corn<br>Such as:<br>Field, Sweet,<br>Popcorn. | Armyworms                                 | 1.0-3.5 | *               |
|   | European Corn Borer<br>(Whorl Stage Only) | 1.0-2.5 |                 |
|   | Southwestern Corn Borer                   | 2.0-2.5 | Aids in Control |

|  | Crop                       | Pests   | Rate<br>(pts./acre)                             | Special<br>Instructions                |
|--|----------------------------|---|---|--|
|  | Hops                       | Armyworms<br>-----<br>Loopers<br>-----<br>Omnivorous Leaf-tier<br>Spotted Cutworm<br>Oblique Banded Leafroller                    | 1.0-3.5<br>-----<br>0.5-2.0<br>-----<br>1.0-2.0 | *<br>-----<br><br>                     |
|  | Jojoba                     | Looper ( <i>Anacamptodes</i> spp.)  | 1.0-2.0   |  |
|  | Peanuts                    | Green Cloverworm<br>Loopers<br>Velvetbean Caterpillar<br>Podworms<br>-----<br><i>Heliothis</i> spp.                               | 1.0-2.0<br>-----<br>2.0                         | <br><br><br><br>Suppression<br>Only ** |
|  | Persimmons,<br>Pomegranate | Fall Webworm<br>Filbert Webworm<br>Omnivorous Leafroller<br>Redhumped Caterpillar<br>Tent Caterpillars<br>-----<br>Citrus Cutworm | 1.0-2.0<br>-----<br>1.0-2.5                     |  |
|  | Safflower                  | Armyworms<br>-----<br>Loopers<br>Saltmarsh Caterpillar  | 1.0-3.5<br>-----<br>1.0-2.0                     | *<br>-----<br><br>                     |
|  | Sorghum                    | Headworm  | 1.0-2.0   |  |
|  | Soybeans                   | (see Vegetable Crops,<br>Legumes)   |   |  |
|  | Sunflowers                 | Headmoth<br>Loopers   | 1.0-2.0   |  |
|  | Small Grains               | Armyworms<br>-----<br>Loopers   | 1.0-3.5<br>-----<br>1.0-2.0                     | *<br>-----<br><br>                     |
|  | Tobacco                    | Tobacco Hornworm<br>-----<br>Loopers<br>-----<br>Tobacco Budworm  | 0.25-1.0<br>-----<br>0.5-2.0<br>-----<br>2.0    | <br><br><br><br>Suppression<br>Only ** |

| CROP GROUP                                 |  |   |                     |                         |
|--|--|---|---------------------|-------------------------|
| FLOWERS BEDDING PLANTS,<br>AND ORNAMENTALS |  |   |                     |                         |
|  | Crop   | Pests   | Rate<br>(pts./acre) | Special<br>Instructions |
|  | Ornamentals<br>Flowers,<br>Bedding<br>Plants | Armyworms   | 1.0-3.5             | *                       |
|  |  | Azalea Moth<br>Diamondback Moth<br>Ello Moth (Hornworm)<br>Io Moth<br>Loopers<br>Oleander Moth<br>Omnivorous Leafroller<br>Omnivorous Looper<br>Tobacco Budworm | 0.5-1.0             |                         |

| CROP GROUP                               |   |                                    |                     |                         |
|--|---|------------------------------------|---------------------|-------------------------|
| GREENHOUSE,<br>AND OUTDOOR NURSERY CROPS |   |                                    |                     |                         |
|  | Crop  | Pests                              | Rate<br>(pts./acre) | Special<br>Instructions |
|  | Such as:<br>Flowers,<br>Brassica,<br>Fruiting<br>Groups,<br>Herbs,<br>and Leafy | Armyworms<br><i>Heliothis</i> spp. | 1.0-3.5             | *                       |
|  |   | Loopers                            | 1.0-2.0             |                         |

| CROP GROUP   |  |  |                                 |                                   |
|--|--|--|---------------------------------|-----------------------------------|
| Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees |  |  |                                 |                                   |
|  | Crop   | Pests  | Rate <sup>1</sup><br>(oz./acre) | Dosage <sup>1</sup><br>(BIU/acre) |
|  | Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees, Seed Orchards, Ornamental Fruit, Nut & Citrus Trees <sup>2</sup> | Gypsy Moth<br>Elm Spanworm   | 13.5- 67.5                      | 8 - 40                            |
|  |  | Spruce Budworm<br>Browntail Moth<br>Douglas fir tussock moth<br>coneworm<br>Buck moth  | 13.5-50.5                       | 8 - 30                            |
|  |  | Tussock Moths<br>Pine Butterfly<br>Bagworm<br>Leafrollers<br>Tortrix<br>Mimosa Webworm<br>Tent Caterpillar<br>Jackpine Budworm<br>Blackheaded Budworm<br>Saddled Prominent<br>Saddleback Caterpillar<br>Eastern & Western hemlock<br>looper<br>Orangestriped oakworm<br>Satin Moth | 10.0-27.0                       | 6 - 16                            |
|  |  | Redhumped Caterpillars<br>Spring & Fall Cankerworm<br>California Oakworm<br>Fall Webworm   | 7.0-13.5                        | 4 - 8                             |

#### Special Instructions

- \* Armyworm Control: Foray 76B 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 added to enhance control. This product can be mixed and used with other pesticides only in accordance with the most restrictive of label limitations and precautions. This product cannot be mixed with any product containing a label prohibition against such mixing. No label dosage rates may be exceeded.
- \*\* 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.

<sup>1</sup> Use the higher recommended rates on advanced larval stages or under high density larval populations.

<sup>2</sup> In treating gypsy moth infested trees and shrubs in urban, rural, and semi-rural areas, exposure of non-target vegetation including, but not limited to, native and ornamental species and food or feed crops is permitted.



3 5 2 77

PRODUCT CONTAINER LABEL

**DIRECTIONS FOR USE FOR NON-AGRICULTURAL APPLICATIONS**

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.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

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

Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes except for wide-area public pest control programs sponsored by government entities, such as mosquito abatement, gypsy moth control, and mediterranean fruit fly eradication..

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FORAY 76B contains the spores and endotoxin crystals of *Bacillus thuringiensis kurstaki*. FORAY 76B is a stomach poison and is effective against lepidopterous larvae. After ingestion, larvae stop feeding within hours and die 2-5 days later. Maximum activity is exhibited against early instar larvae. FORAY 76B may be used for both ground and aerial application. The product should be shaken or stirred before use. Add some water to the tank mix, pour the recommended amount of FORAY 76B into the tank and then add the remaining amount of water to obtain the proper mix ratio. Agitate as necessary to maintain the suspension. The diluted mix should be used within 72 hours.

**Ground Application**

Use an adequate amount of tank mix to obtain thorough coverage without excessive run off. Use the recommended per acre dosages of Foray 76B in up to the following amounts of water:

|                                |             |
|--------------------------------|-------------|
| High volume hydraulic sprayers | 100 gallons |
| Mist blowers                   | 10 gallons  |

**Aerial Application**

Foray 76B may be applied aurally, either alone or diluted with water at the dosages shown in the application rates table. Spray volumes of 28-128 ounces per acre are recommended. Best results are expected when Foray 76B is applied to dry foliage.

| CROP GROUP   |   |  |                                 |                                   |
|--|---|--|---------------------------------|-----------------------------------|
| Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees |   |  |                                 |                                   |
|  | Crop  | Pests  | Rate <sup>1</sup><br>(oz./acre) | Dosage <sup>1</sup><br>(BIU/acre) |
|  | Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees, Ornamental Fruit, Nut & Citrus Trees <sup>2</sup> | Gypsy Moth<br>Elm Spanworm   | 13.5- 67.5                      | 8 - 40                            |
|  |   | Spruce Budworm<br>Browntail Moth<br>Douglas fir tussock moth<br>coneworm<br>Buck moth  | 13.5-50.5                       | 8 - 30                            |
|  |   | Tussock Moths<br>Pine Butterfly<br>Bagworm<br>Leafrollers<br>Tortrix<br>Mimosa Webworm<br>Tent Caterpillar<br>Jackpine Budworm<br>Blackheaded Budworm<br>Saddled Prominent<br>Saddleback Caterpillar<br>Eastern & Western hemlock<br>looper<br>Orangestriped oakworm<br>Satin Moth | 10.0-27.0                       | 6 - 16                            |
|  |   | Redhumped Caterpillars<br>Spring & Fall Cankerworm<br>California Oakworm<br>Fall Webworm   | 7.0-13.5                        | 4 - 8                             |

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