

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-93

|  |                                 |   |  |
|--|---------------------------------|---|--|
|  | United States                   | <input type="checkbox"/> Registration     | OPP Identifier Number<br><b>245909</b> |
|  | Environmental Protection Agency | <input type="checkbox"/> Amendment        |  |
|  | Washington, DC 20460            | <input checked="" type="checkbox"/> Other |  |

Application for Pesticide - Section I

|  |   |  |
|--|---|--|
| 1. Company/Product Number<br>Abbott Laboratories/275-103   | 2. EPA Product Manager<br>J. Andersen   | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br>Abbott Laboratories/ ARG-6404 Dry Flowable Biological Insecticide   | PM# 90  |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br>Abbott Laboratories, D28R, Bldg A1<br>1401 Sheridan Road<br>North Chicago, IL 60064-4000<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 of alternate brand name: DiPel DF Dry Flowable Biological Insecticide

**NOTIFICATION**  
AUG 15 1996

Section - III

|   |  |   |  |  |  |
|---|--|---|--|--|--|
| 1. Material This Product Will Be Packaged In:   |  |   |  | 2. Type of Container   |  |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No  | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No |  | <input checked="" 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 checked="" type="checkbox"/> Paper  | Other (Specify) <u>Metalized Polyester</u> |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container   |  | 4. Size(s) Retail Container<br>1 lb, 5 lb   |  | 5. Location of Label Directions<br><input type="checkbox"/> On Label<br><input checked="" 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 checked="" type="checkbox"/> Other <u>Pressure-sensitive adhesive</u> |  |  |

Section - IV

|   |                                     |   |
|---|-------------------------------------|---|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)   |                                     |   |
| Name<br>Mary C. Helgren   | Title<br>Registration Specialist    | Telephone No. (Include Area Code)<br>847-938-9785 |
| 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)<br>     |
| 2. Signature<br><i>Mary C Helgren</i>   | 3. Title<br>Registration Specialist |   |
| 4. Typed Name<br>Mary C. Helgren  | 5. Date<br>7/30/96                  |   |

NOTIFICATION

AUG 15 1996

04-1367/R1

Biological Insecticide  
**DIPel® DF**  
Dry Flowable

Active Ingredient: Permethrin, 10.2% w/w  
Inert Ingredients: 89.8% w/w  
Total: 100.0% w/w  
Contains 12,000 International Units of permethrin per mg (4.5 billion International Units per pound)  
Precautionary statements should not be placed in adjacent boxes unless those specified in the Directions For Use Section.

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

EPA Registration No. 275-103  
EPA Est. No. 33762-1A-1

**STATEMENT OF PRACTICAL TREATMENT**

In case of contact with eyes or skin, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed, inhaled, or absorbed through the skin. May cause eye irritation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Dust/mist respirator (MSHA/NIOSH approval number prefix TC-21C).

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.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

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

**Storage:** Recycle containers of unused DiPel DF. Store in a dry place inaccessible to children and out of sunlight.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Plastic Bottle: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Paper and Plastic Bags:** Completely empty bag into application equipment. Then dispose of empty bag in sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Metal Cans:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**DIRECTIONS FOR USE**

See Chemigation section for chemigation use directions.

**Days to Harvest:** There are no restrictions on applying DiPel DF up to the time of harvest. Individual state regulations may vary and should be consulted for allowable pre-harvest application intervals.

**Sites:** DiPel DF may be used for any labeled pest in both field and greenhouse use.

DiPel DF is an insecticide for use against listed caterpillars (larvae) of lepidopterous insects. Close scouting and early attention to infestations is highly recommended. Larva must eat deposits of DiPel DF to be affected. Always follow these directions:

- Treat when larvae are young (early instars) before the crop is damaged.
- Larvae must be actively feeding on treated, exposed plant surfaces.
- Through spray coverage is needed to provide a uniform deposit of DiPel DF at the site of larval feeding. Use overhead and drop nozzles to obtain good spray coverage on both sides of foliage. Use sufficient spray volume to insure uniform deposition on all plant surfaces.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise spray volume to improve spray coverage.
- Repeat applications at an interval sufficient to maintain control, usually 3 to 14 days depending on plant growth rate, moth activity, rainfall after treating, and other factors. If attempting to control a pest with a single spray, make the treatment when egg hatch is essentially complete, but before crop damage occurs.
- A spreader-sticker which has been approved for use on growing and harvested crops should be added for hard-to-wet crops such as cabbage, or to improve weather-fastness of the spray deposits.
- DiPel DF is a non-restricted use pesticide and does not require a restricted use permit for purchase and use.
- DiPel DF may be tank mixed with other labeled insecticides to enhance control. Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. No dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Before tank mixing DiPel DF with other labeled products, including spreader stickers, check for tank mix compatibility.

After ingesting a lethal dose of DiPel DF, larvae stop feeding within the hour, and will die within several hours to 3 days. Mortality varies with larval size (instar), lepidopteran species, and dose consumed. Following ingestion, larvae become sluggish, discolor, then shrivel, blacken and die. Smaller larvae die more quickly.

DiPel DF may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide uniform coverage of infested plant parts. The volume of water needed per acre will depend on crop development, relative humidity, spray equipment, and local experience. Usually, selection of moderate to high spray volume will provide the best results in most equipment. For optimal results, use at least 3 gallons of water per acre by air; exception arid areas, where 5 to 10 gallons are required. Add water in the mix tank and provide moderate agitation. With agitating, add the required amount of DiPel DF. Continue agitation, and add

other spray materials, if any. Add remaining water, if any, and agitate until fully mixed. Maintain the suspension with moderate agitation while loading and spraying. Do not mix more DiPel DF than can be used in a 3 day period.

**For Smaller Spray Volumes:**

| R Rate is                   | Use This Amount Per Gallon (wt) |
|-----------------------------|---------------------------------|
| 1/4 lb. / acre or 100 gals. | 1/2 tsp (0.04 oz)               |
| 1/2 lb. / acre or 100 gals. | 1 tsp (0.08 oz)                 |
| 1 lb. / acre or 100 gals.   | 2 tsps (0.16 oz)                |
| 2 lb. / acre or 100 gals.   | 4 tsps (0.32 oz)                |

**CHEMIGATION USE DIRECTIONS**

Apply this product only through sprinkler including center pivot, lateral move, and tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation systems. Do not connect an irrigation system (including greenhouse systems) used for pesticide applications to a public water system.

**Spray Preparation**

First prepare a suspension of DiPel DF in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of DiPel DF, and then the remaining volume of water. Then set the sprinkler to deliver a minimum of 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of DiPel DF into the irrigation water line so as to deliver the desired rate per acre. The suspension of DiPel DF should be injected with a positive displacement pump into the main line ahead of a tight angle turn to insure adequate mixing. Any questions on calibration should be directed to your State Extension Service Specialists, or equipment manufacturers or other experts.

**NOTE:** When treatment with DiPel DF has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the material off the crop.

**GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS**

Maintain continuous agitation in the mix tank during mixing and application to insure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume for a more dilute solution per unit time.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection

pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Proof A B C D E F

CAPD ART

Prepared by

MFD Graphics Studio

LIST NO. 12046

NO. 04-1367/R1

COMMOD. Nitrova

LABEL (EDITOR)

DATE PREPARED 7-25-96

DRAWING NUMBER CAPD-0028

ARTIST MMRW/JMM

APPROVED BY

7-29-96

DATE

\*NOT VALID UNLESS FINAL

PROD'S CARAV APPROVAL

SIGNATURE

293

