



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460

August 15, 2008

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Doina Bujor, Regulatory Manager  
Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

RE: Product Name: Dipel (Worm Killer) Wettable Powder  
EPA Reg. No: 73049-5  
Application for Label Notification Dated June 11, 2008 to Update Storage and  
Disposal Language per PR Notice 2007-4

Dear Ms. Bujor:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under PR Notice 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the label submitted with this application has been stamped "Notification, received and reviewed" and will be placed accordingly in our records.

Questions concerning this action should be directed to Ms. Diana Hudson at (703) 308-8713 or email at [HUDSON.DIANA@EPA.GOV](mailto:HUDSON.DIANA@EPA.GOV).

Sincerely,

*Linda Hollis*

Linda Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention  
Division (7511P)

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0080

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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**Application for Pesticide - Section I**

<b>1. Company/Product Number</b> 73049-5	<b>2. EPA Product Manager</b> Sheryl Reilly	<b>3. Proposed Classification</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
<b>4. Company/Product (Name)</b> DIPEL (WORM KILLER) BIOLOGICAL INSECTICIDE	<b>PM#</b>	
<b>5. Name and Address of Applicant (Include ZIP Code)</b> Valent BioSciences Corporation 870 Technology Way Libertyville, IL 60048  <input type="checkbox"/> Check if this is a new address	<b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  <input checked="" type="checkbox"/> EPA Reg. No. _____  Product Name _____	

**Section - II**

**NOTIFICATION**

<input type="checkbox"/> Amendment - Explain below.  <input type="checkbox"/> Resubmission in response to Agency letter dated _____  <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ Date Reviewed: <u>8-15-08</u> <input type="checkbox"/> "Me Too" Application. Reviewed By: <u>D. Hudson</u> <input type="checkbox"/> Other - Explain below.
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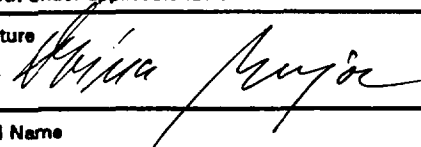
**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification of label per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. NO other changes have been made to the labeling or the Confidential Statement of Formula for this product. (see next page)

**Section - III**

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

**Section - IV**

<b>1. Contact Point</b> (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
<b>Name</b> Doina Bujor	<b>Title</b> Regulatory Manager	<b>Telephone No. (Include Area Code)</b> 847-968-4724
<b>Certification</b> 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.		<b>6. Date Application Received (Stamped)</b>  <div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto;"></div>
<b>2. Signature</b> 	<b>3. Title</b> Regulatory Manager	<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto;"></div>
<b>4. Typed Name</b> Doina Bujor	<b>5. Date</b> Jun 11, 2008	



870 TECHNOLOGY WAY  
LIBERTYVILLE, IL 60048 - 800-323-9597

June 11, 2008

Sheryl Reilly  
Biopesticides & Pollution Prevention Division  
Document Processing Desk (NOTIF)  
Office Of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501  
703-308-8269

**RE: DiPel (Worm Killer) (EPA Reg. No. 73049-5) Notification**

Dear Ms. Reilly:


Valent BioSciences Corporation is submitting a notification for DiPel (Worm Killer) (EPA Reg. No. 73049-5) in accordance with PR Notice 2007-4 and PR. The changes made to the label are to the Storage and Disposal statement and include the container disposal language for non-refillable flexible container (composite bag).

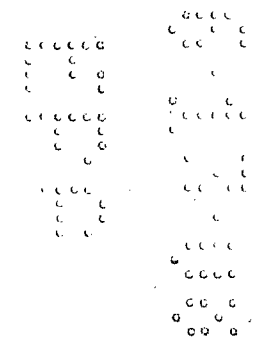
Present submission consists of:

- Application for Registration (EPA form 8570-1)
- One copy of the red-lined label
- One copy of the clean label.

Please contact me if you have any questions at 847-968-4724 or by e-mail at [doina.bujor@valent.com](mailto:doina.bujor@valent.com).

Sincerely,

  
Doina Bujor  
Regulatory Manager







<b>FIRST AID</b>	
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

<b>HOT LINE NUMBER</b>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-Valent.

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

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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.

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**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco products or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product must not be applied aeriaily within ¼ mile of any habitats of endangered species or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.

**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.

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.

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### 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 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.

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### STORAGE AND DISPOSAL

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

**Storage:** Reclose container of unused DiPel. Store in dry place.

**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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Deleted: Do not reuse empty container into application equipment. Completely empty container. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### DAYS TO HARVEST

There are no restrictions on applying DiPel up to the time of harvest.

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

**For Smaller Spray Volumes:**

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If Rate is	Use This Amount Per Gallon
1/4 lb./acre or 100 gals.	1/2 tsp.
1/2 lb./acre or 100 gals.	1 tsp.
1 lb./acre or 100 gals.	2 tsps.
2 lb/acre or 100 gals.	4 tsps.

### APPLICATION DIRECTIONS

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

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

- Treat when larvae are young (early instars) before the crop is extensively damaged.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DiPel at the site of larval feeding. For some crops directed drop nozzles by ground machine are required.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise gallonage to improve spray coverage.
- Repeat applications at an interval sufficient to maintain control, usually 3 to 14 days depending on plant growth, 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 extensive crop damage occurs.

After eating a lethal dose of DiPel, larvae stop feeding within the hour, and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DiPel may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The amount of water needed per acre will depend on crop size, weather, spray equipment, and local experience. Unless otherwise indicated, use at least 2 gallons of water by air; except in the far west, 5 to 10 gallons is the usual minimum. Add water to the spray or mixing tank at the level that provides maximum agitation. With the agitator running, slowly sprinkle in the DiPel. Continue agitation. Then add other spray materials (if any). Add the balance of the water and agitate until mixed. Maintain the suspension while loading and spraying. Do not mix more DiPel than can be used in a 12-hour period.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The

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applicator and the grower are responsible for considering all of these factors when making decisions.

**APPLICATION RATE**

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Crop	Pest	Pounds/ Acre
Cole Crops and Vegetables including Leafy, Root, Stalk, and Seed and Pod Types (Peas, Beans, Lentils, etc., dry or succulent), Potatoes, Cucurbits	Loopers	1/2 to 1
	Hornworms	1/4 to 1/2
	Imported Cabbageworm	1/4 to 1/2
	Diamondback Moth	1/3 to 2/3
	Green Cloverworm	1/4 to 1/2
	Webworm	1/2 to 1
	Armyworms*	1 to 2

\*DiPel may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Tomato, Peppers, Eggplant	Loopers	1/2 to 1
	Hornworms	1/4 to 1/2
	Tomato Fruitworm*	1
	Variegated Cutworm	1
	Saltmarsh Caterpillar	1/2 to 1
	Armyworms**	1 to 2

\*Apply weekly in a preventative program.

\*\*DiPel may be used to suppress small worms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Cucurbits: Melons, Squash, Cucumbers, etc.	Rindworm Complex*	1/2 to 1
	Melonworms	1 to 2

\*Apply weekly in a preventive program.

Tobacco	Tobacco Budworm	1/2 to 1
	Hornworms	1/4 to 1/2
	Loopers	1/2 to 1

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Crop	Pest	Pounds/ Acre
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Safflower, Sugar beets, Mints	Loopers	1/2 to 1
	Saltmarsh Caterpillars	1/2 to 1

Soybeans, Sunflowers, Peanuts	Loopers	1/2 to 1
	Green Cloverworm	1/4 to 1/2
	Velvetbean Caterpillar	1/2 to 2/3
	Podworm*	1/2 to 1

\*DiPel suppresses podworms under pest management conditions.

Alfalfa, Hay and Small Grains	Loopers	1/2 to 1
	Alfalfa Caterpillar	1/8 to 1/4
	European Skipper	1/4 to 1/2
	(Essex Skipper)	

Cotton	Tobacco Budworm*	1/4 to 1
	Cotton Bollworm*	1/4 to 1
	Loopers**	1/2 to 1

\*Use to suppress light to moderate populations of newly hatched worms in pest management conditions. Use under close scouting when beneficial insects are active or building. Repeat treatments at 4 to 5 day intervals as long as necessary and results are acceptable.

Once beneficial insects are no longer a factor, DiPel (at 1/4 to 3/4 lb./acre) may be tank mixed with methomyl (Lannate® or Nudrin®) at .225 to .675 lbs. AI per acre to control light to moderate infestations of early instar larvae. Observe any rate, frequency, or boll load label restrictions for methomyl in your area. Methomyl will likely cause reddening of cotton foliage. Discontinue this tank mix if reddening becomes excessive.

Before using any tank mix, read the product labels from all environmental and usage cautions.

\*\*Full plant coverage needed.

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Crop	Pest	Lbs./100 Gals.
Turf	Sod Webworm	2 to 4
Flowers and Ornamentals (ground only)	Loopers	1/2 to 1
	Tobacco Budworm	1/2 to 1
	Omnivorous Looper	1/2 to 1
	Omnivorous Leafroller	1/2 to 1
	Diamondback Moth	1/3 to 2/3
	Armyworms*	1 to 2
	Ello Moth (Hornworm)	1/4 to 1/2
	Io Moth	1/2 to 1
	Oleander Moth	1/2 to 1

\*DiPel may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

DiPel for Fruits, Nuts, Trees, Ornamentals				
Crop	Pest		Pounds/Acre	
Grapes, Small Fruits, Cane and Bush Berries	Grapeleaf Skeletonizer (ground only)		2/3 to 1	
	Grape Leafroller		1/2 to 3/4	
	Acherna Sphinx Moth (Hornworm)		1/3 to 3/4	
	Saltmarsh Caterpillar (ground only)		1	
	Omnivorous Leafroller (ground only)		1/2 to 1	
				1/2 to 1
		Loopers		
		Pounds/100 Gallons* (Ground Equipment)	Pounds/Acre (Aerial** Application)	
Stone Fruits, Nut Trees, Pomegranates	Redhumped Caterpillar	1/4 to 1/2	1/3 to 1	
	Tent Caterpillars	1/4 to 1/2	1/2 to 1	
	Omnivorous Leafroller	1/2 to 1	--	
	Fall Webworm	1/4 to 1/2	1/2	
	Walnut Caterpillar	1/2 to 1	1/2 to 1	
	Cankerworms	1/4 to 1/2	1/2 to 1	
Pome Fruits <sup>1</sup>	Cankerworms	1/4 to 1/2	1/2 to 1	
	Gypsy Moth	1/2 to 1	1	
	Variogated Leafroller	1/2 to 1	--	
	Redbanded Leafroller	1/2 to 1	--	
	Tufted Apple Budmoth	1/2 to 1	--	
	Tent Caterpillars	1/4 to 1/2	1/2 to 1	

\*Rate for hydraulic sprayer. For mist blowers, mix the applicable amount (lbs.) in 10 gallons of water.

<sup>1</sup>Use 400-450 gallons/acre to suppress listed pests in pest management program.

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DiPel for Fruits, Nuts, Trees, Ornamentals, continued			
Crop	Pest	Pounds/100 Gallons* (Ground equipment)	Pounds/Acre
Citrus <sup>2</sup>	Fruitree Leafroller	1/2 to 1	--
	Orangedog	1/4 to 1/2	--
Tropical Fruits <sup>3</sup>	Hornworm	1/2 to 1	--
	Leafroller	1/2 to 1	--
	Omnivorous Looper	1/2 to 1	--
	Loopers	1/2 to 1	--
Forest, Shade, Sugar Maple Trees and Ornamentals	Gypsy Moth	1/2 to 1	1
	Bagworm	1/2 to 1	1/2 to 1
	Redhumped Caterpillar	1/4 to 1/2	1/4 to 1
	Spring & Fall Cankerworm	1/4 to 1/2	1/4 to 1/2
	Fall Webworm	1/2	1/2
	Elm Spanworm	1/2 to 1	1/2 to 1
	Tent Caterpillars	1/4 to 1/2	1/2
	California Oakworm	1/4 to 1/2	1/4 to 1/2
	Pine Butterfly	1	1
	Spruce Budworms <sup>4</sup>	1	1
	Saddle Prominent Caterpillar	1/2 to 1	--
	Douglas Fir Tussock Moth	1	1
	Western Tussock Moth	1/2 to 1	--
	Fruitree Leafroller	1/2 to 1	--
	Blackheaded Budworm	1	--
	Mimosa Webworm	1/2 to 1	--
Jack Pine Budworm	1/2 to 1	3/4 to 1	
Saddleback Caterpillar	1/2 to 1	--	

\*\*For aerial application, use in one to ten gallons of water depending on type and density of trees. For best results, spray systems which deliver droplet size of 200 microns should be used.

<sup>2</sup>Use 100 to 400 gallons/acre.

<sup>3</sup>Use at least 200 gallons/acre.

<sup>4</sup>Use against populations below 35 larvae per 18-inch branch tip. Use a minimum of 1/2 gallon/acre by air.

**DIPEL FOR STORED AGRICULTURAL COMMODITIES**

**For the Control of Tobacco Moth on Flue-Cured Tobacco**

Apply 0.4 ounce (approximately 5 teaspoonfuls) of DiPel in one quart of water per 100 pounds of tobacco as a fine mist spray. Avoid overwetting. Tobacco should have just enough moisture to be handled without shattering at the time of application.

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**Tobacco to be Stored up to Twelve Months.**

Spray loose leaves as the tobacco is being bundled from the curing barn. For tobacco on sticks, treat both sides of leaves.

**Stored Tobacco.**

For tobacco which is to be carried over, rebundle or restock sticks, fluff up tobacco and spray loose leaves.

For tobacco that has been stored over three weeks, apply at first signs of infestation, promptly open bundles, spray loose leaves, then bundle.

**Treatment of Storage Barns.**

If tobacco has been treated, or is going to be treated, treatment of the floors and walls may be made to aid in control. Sweep out the area, especially cracks and corners, and all of the loose tobacco pieces in which the moth might breed. Make a spray mixture containing 1 oz. DiPel per 2 1/2 gallons of water. Apply this at a rate of 1/2 gallon per 1000 sq. ft. of surface area. Be sure to spray into cracks and between floorboards.

**STORED GRAINS, SOYBEANS, SUNFLOWER SEED, PEANUTS, CROP SEED, POPCORN<sup>1</sup> AND BIRDSEED<sup>1</sup>.**

Pest	Rate
Indian Meal Moth, Almond Moth	3/4 lb./100 Bu (undiluted and diluted)*

\*As a surface treatment, apply 1 lb. DiPel in 10 gal. of water per 500 sq. ft. of grain surface area, mix into top 4 inches.

<sup>1</sup>For all States except California.

For the control and prevention of these pests, apply DiPel in a constantly agitated water suspension to the top four inch surface layer of grain in the bin. Use a sprinkler can or sprayer to apply the dosage into the grain stream as the last (top) four inch layer is augered into the bin. Mix 1/10 lb. DiPel per gallon of water. Apply 0.6 pint of this mixture per bushel as grain is augered into storage. Or, sprinkle the dosage onto the surface of the grain in the bin and mix thoroughly with a scoop or rake to the depth of four inches. More thorough coverage may be achieved by dividing the recommended dosage into three applications and mixing the grain between applications.

For the protection of bagged grain including popcorn, apply the dosage to the entire grain mass and mix thoroughly prior to bagging.

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Treatments can be applied to the stored grain at any time, but for best results, make application immediately after harvest before moth activity occurs. In areas where late fall harvested grain is not subject to infestation because of low temperatures, application can be delayed until late winter or early spring before moth activity begins. Control for a full storage season should normally be expected, however, repeat application if infestation recurs.

This treatment controls the moth larvae. If an infestation is present when the grain is treated, moth emergence may continue for several days. If immediate control of severe infestations is desired, grain should be fumigated prior to application of this treatment. **DiPel will not control weevils or other beetles.**

DiPel is exempt from tolerance restrictions and the treated grain can be used at any time after treatment for any use.

**NOTICE TO USER**

Seller makes no warranty, express or implied, of merchantability fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

\*Lannate, Nudrin, are trademarks of companies other than Abbott Laboratories.

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Dipel® FMU Biological Insecticide

FOR MANUFACTURING USE ONLY DIRECTIONS

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**DIPEL® FMU  
BIOLOGICAL INSECTICIDE**

**Active Ingredient:**

<i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> strain ABTS-351 fermentation solids, spores, and insecticidal toxins.....	23.7%
Other Ingredients.....	76.3%
Total.....	100.0%

Potency: 16,000 Cabbage Looper Units of Potency per mg (7.26 Billion Cabbage Looper Units per pound)

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FOR MANUFACTURING USE ONLY

FOR REPACKING OR RELABELING ONLY

Valent BioSciences Corporation  
870 Technology Way, Suite 100  
Libertyville, IL 60048.

EPA Reg. No. 73049-5 \_\_\_\_\_ Batch Code: \_\_\_\_\_  
EPA Est. No. 33762-IA-1

<b>FIRST AID</b>	
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

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**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-Valent.

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

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**Personal Protective Equipment**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

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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 products or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product must not be applied aurally within ¼ mile of any habitats of endangered species or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.

**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.

**STORAGE AND DISPOSAL**

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

**Storage:** Reclose container of unused DiPel. Store in dry place.

**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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Deleted:** Do not reuse empty container. Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.¶

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**Deleted:** 07-06-06 HEM



<b>FIRST AID</b>	
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

<b>HOT LINE NUMBER</b>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-Valent.

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

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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 products or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

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**DIRECTIONS FOR USE**

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Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

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

- Coveralls.
- Waterproof gloves.
- Shoes plus socks.

**STORAGE AND DISPOSAL**

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**DAYS TO HARVEST**

There are no restrictions on applying DiPel up to the time of harvest.

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

**For Smaller Spray Volumes:**

<b>If Rate is</b>	<b>Use This Amount Per Gallon</b>
1/4 lb./acre or 100 gals.	1/2 tsp.
1/2 lb./acre or 100 gals.	1 tsp.
1 lb./acre or 100 gals.	2 tsps.
2 lb/acre or 100 gals.	4 tsps.

### APPLICATION DIRECTIONS

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

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

- Treat when larvae are young (early instars) before the crop is extensively damaged.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DiPel at the site of larval feeding. For some crops directed drop nozzles by ground machine are required.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise gallonage to improve spray coverage.
- Repeat applications at an interval sufficient to maintain control, usually 3 to 14 days depending on plant growth, 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 extensive crop damage occurs.

After eating a lethal dose of DiPel, larvae stop feeding within the hour, and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DiPel may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The amount of water needed per acre will depend on crop size, weather, spray equipment, and local experience. Unless otherwise indicated, use at least 2 gallons of water by air; except in the far west, 5 to 10 gallons is the usual minimum. Add water to the spray or mixing tank at the level that provides maximum agitation. With the agitator running, slowly sprinkle in the DiPel. Continue agitation. Then add other spray materials (if any). Add the balance of the water and agitate until mixed. Maintain the suspension while loading and spraying. Do not mix more DiPel than can be used in a 12-hour period.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The



applicator and the grower are responsible for considering all of these factors when making decisions.

**APPLICATION RATE**

<b>Crop</b>	<b>Pest</b>	<b>Pounds/ Acre</b>
Cole Crops and Vegetables including Leafy, Root, Stalk, and Seed and Pod Types (Peas, Beans, Lentils, etc., dry or succulent), Potatoes, Cucurbits	Loopers	1/2 to 1
	Hornworms	1/4 to 1/2
	Imported Cabbageworm	1/4 to 1/2
	Diamondback Moth	1/3 to 2/3
	Green Cloverworm	1/4 to 1/2
	Webworm	1/2 to 1
	Armyworms*	1 to 2

\*DiPel may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Tomato, Peppers, Eggplant	Loopers	1/2 to 1
	Hornworms	1/4 to 1/2
	Tomato Fruitworm*	1
	Variegated Cutworm	1
	Saltmarsh Caterpillar	1/2 to 1
	Armyworms**	1 to 2

\*Apply weekly in a preventative program.

\*\*DiPel may be used to suppress small worms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Cucurbits: Melons, Squash, Cucumbers, etc.	Rindworm Complex*	1/2 to 1
	Melonworms	1 to 2

\*Apply weekly in a preventive program.

Tobacco	Tobacco Budworm	1/2 to 1
	Hornworms	1/4 to 1/2
	Loopers	1/2 to 1

<b>Crop</b>	<b>Pest</b>	<b>Pounds/ Acre</b>
Safflower, Sugar beets, Mints	Loopers	1/2 to 1
	Saltmarsh Caterpillars	1/2 to 1
Soybeans, Sunflowers, Peanuts	Loopers	1/2 to 1
	Green Cloverworm	1/4 to 1/2
	Velvetbean Caterpillar	1/2 to 2/3
	Podworm*	1/2 to 1

\*DiPel suppresses podworms under pest management conditions.

Alfalfa, Hay and Small Grains	Loopers	1/2 to 1
	Alfalfa Caterpillar	1/8 to 1/4
	European Skipper (Essex Skipper)	1/4 to 1/2
Cotton	Tobacco Budworm*	1/4 to 1
	Cotton Bollworm*	1/4 to 1
	Loopers**	1/2 to 1

\*Use to suppress light to moderate populations of newly hatched worms in pest management conditions. Use under close scouting when beneficial insects are active or building. Repeat treatments at 4 to 5 day intervals as long as necessary and results are acceptable.

Once beneficial insects are no longer a factor, DiPel (at 1/4 to 3/4 lb./acre) may be tank mixed with methomyl (Lannate® or Nudrin®) at .225 to .675 lbs. AI per acre to control light to moderate infestations of early instar larvae. Observe any rate, frequency, or boll load label restrictions for methomyl in your area. Methomyl will likely cause reddening of cotton foliage. Discontinue this tank mix if reddening becomes excessive.

Before using any tank mix, read the product labels from all environmental and usage cautions.

\*\*Full plant coverage needed.

Crop	Pest	Lbs./100 Gals.
Turf	Sod Webworm	2 to 4
Flowers and Ornamentals (ground only)	Loopers	1/2 to 1
	Tobacco Budworm	1/2 to 1
	Omnivorous Looper	1/2 to 1
	Omnivorous Leafroller	1/2 to 1
	Diamondback Moth	1/3 to 2/3
	Armyworms*	1 to 2
	Ello Moth (Hornworm)	1/4 to 1/2
	Io Moth	1/2 to 1
	Oleander Moth	1/2 to 1

\*DiPel may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

DiPel for Fruits, Nuts, Trees, Ornamentals			
Crop	Pest		Pounds/Acre
Grapes, Small Fruits, Cane and Bush Berries	Grapeleaf Skeletonizer (ground only)		2/3 to 1
	Grape Leafroller		1/2 to 3/4
	Achema Sphnix Moth (Hornworm)		1/3 to 3/4
	Saltmarsh Caterpillar (ground only)		1
	Omnivorous Leafroller (ground only)		1/2 to 1
	Loopers		1/2 to 1
		<b>Pounds/100 Gallons* (Ground Equipment)</b>	<b>Pounds/Acre (Aerial** Application)</b>
Stone Fruits, Nut Trees, Pomegranates	Redhumped Caterpillar	1/4 to 1/2	1/3 to 1
	Tent Caterpillars	1/4 to 1/2	1/2 to 1
	Omnivorous Leafroller	1/2 to 1	--
	Fall Webworm	1/4 to 1/2	1/2
	Walnut Caterpillar	1/2 to 1	1/2 to 1
	Cankerworms	1/4 to 1/2	1/2 to 1
Pome Fruits <sup>1</sup>	Cankerworms	1/4 to 1/2	1/2 to 1
	Gypsy Moth	1/2 to 1	1
	Variiegated Leafroller	1/2 to 1	--
	Redbanded Leafroller	1/2 to 1	--
	Tufted Apple Budmoth	1/2 to 1	--
	Tent Caterpillars	1/4 to 1/2	1/2 to 1

\*Rate for hydraulic sprayer. For mist blowers, mix the applicable amount (lbs.) in 10 gallons of water.

<sup>1</sup>Use 400-450 gallons/acre to suppress listed pests in pest management program.

DiPel for Fruits, Nuts, Trees, Ornamentals, continued			
Crop	Pest	Pounds/100 Gallons* (Ground equipment)	Pounds/Acre
Citrus <sup>2</sup>	Fruittree Leafroller	1/2 to 1	--
	Orangedog	1/4 to 1/2	--
Tropical Fruits <sup>3</sup>	Hornworm	1/2 to 1	--
	Leafroller	1/2 to 1	--
	Omnivorous Looper	1/2 to 1	--
	Loopers	1/2 to 1	--
Forest, Shade, Sugar Maple Trees and Ornamentals	Gypsy Moth	1/2 to 1	1
	Bagworm	1/2 to 1	1/2 to 1
	Redhumped Caterpillar	1/4 to 1/2	1/4 to 1
	Spring & Fall Cankerworm	1/4 to 1/2	1/4 to 1/2
	Fall Webworm	1/2	1/2
	Elm Spanworm	1/2 to 1	1/2 to 1
	Tent Caterpillars	1/4 to 1/2	1/2
	California Oakworm	1/4 to 1/2	1/4 to 1/2
	Pine Butterfly	1	1
	Spruce Budworms <sup>4</sup>	1	1
	Saddle Prominent Caterpillar	1/2 to 1	--
	Douglas Fir Tussock Moth	1	1
	Western Tussock Moth	1/2 to 1	--
	Fruittree Leafroller	1/2 to 1	--
	Blackheaded Budworm	1	--
Mimosa Webworm	1/2 to 1	--	
Jack Pine Budworm	1/2 to 1	3/4 to 1	
Saddleback Caterpillar	1/2 to 1	--	

\*\*For aerial application, use in one to ten gallons of water depending on type and density of trees. For best results, spray systems which deliver droplet size of 200 microns should be used.

<sup>2</sup>Use 100 to 400 gallons/acre.

<sup>3</sup>Use at least 200 gallons/acre.

<sup>4</sup>Use against populations below 35 larvae per 18-inch branch tip. Use a minimum of 1/2 gallon/acre by air.

## DIPEL FOR STORED AGRICULTURAL COMMODITIES

### For the Control of Tobacco Moth on Flue-Cured Tobacco

Apply 0.4 ounce (approximately 5 teaspoonfuls) of DiPel in one quart of water per 100 pounds of tobacco as a fine mist spray. Avoid overwetting. Tobacco should have just enough moisture to be handled without shattering at the time of application.

**Tobacco to be Stored up to Twelve Months.**

Spray loose leaves as the tobacco is being bundled from the curing barn. For tobacco on sticks, treat both sides of leaves.

**Stored Tobacco.**

For tobacco which is to be carried over, rebundle or restock sticks, fluff up tobacco and spray loose leaves.

For tobacco that has been stored over three weeks, apply at first signs of infestation, promptly open bundles, spray loose leaves, then bundle.

**Treatment of Storage Barns.**

If tobacco has been treated, or is going to be treated, treatment of the floors and walls may be made to aid in control. Sweep out the area, especially cracks and corners, and all of the loose tobacco pieces in which the moth might breed. Make a spray mixture containing 1 oz. DiPel per 2 1/2 gallons of water. Apply this at a rate of 1/2 gallon per 1000 sq. ft. of surface area. Be sure to spray into cracks and between floorboards.

**STORED GRAINS, SOYBEANS, SUNFLOWER SEED, PEANUTS, CROP SEED, POPCORN<sup>1</sup> AND BIRDSEED<sup>1</sup>.**

<b>Pest</b>	<b>Rate</b>
Indian Meal Moth, Almond Moth	3/4 lb./100 Bu (undiluted and diluted)*

\*As a surface treatment, apply 1 lb. DiPel in 10 gal. of water per 500 sq. ft. of grain surface area, mix into top 4 inches.

<sup>1</sup>For all States except California.

For the control and prevention of these pests, apply DiPel in a constantly agitated water suspension to the top four inch surface layer of grain in the bin. Use a sprinkler can or sprayer to apply the dosage into the grain stream as the last (top) four inch layer is augered into the bin. Mix 1/10 lb. DiPel per gallon of water. Apply 0.6 pint of this mixture per bushel as grain is augered into storage. Or, sprinkle the dosage onto the surface of the grain in the bin and mix thoroughly with a scoop or rake to the depth of four inches. More thorough coverage may be achieved by dividing the recommended dosage into three applications and mixing the grain between applications.

For the protection of bagged grain including popcorn, apply the dosage to the entire grain mass and mix thoroughly prior to bagging.

Treatments can be applied to the stored grain at any time, but for best results, make application immediately after harvest before moth activity occurs. In areas where late fall harvested grain is not subject to infestation because of low temperatures, application can be delayed until late winter or early spring before moth activity begins. Control for a full storage season should normally be expected, however, repeat application if infestation recurs.

This treatment controls the moth larvae. If an infestation is present when the grain is treated, moth emergence may continue for several days. If immediate control of severe infestations is desired, grain should be fumigated prior to application of this treatment. **DiPel will not control weevils or other beetles.**

DiPel is exempt from tolerance restrictions and the treated grain can be used at any time after treatment for any use.

#### **NOTICE TO USER**

Seller makes no warranty, express or implied, of merchantability fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

\*Lannate, Nudrin, are trademarks of companies other than Abbott Laboratories.

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Dipel® FMU Biological Insecticide

FOR MANUFACTURING USE ONLY DIRECTIONS

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**DIPEL® FMU  
BIOLOGICAL INSECTICIDE**

**Active Ingredient:**

<i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> strain ABTS-351 fermentation solids, spores, and insecticidal toxins.....	23.7%
Other Ingredients.....	76.3%
Total.....	100.0%

Potency: 16,000 Cabbage Looper Units of Potency per mg (7.26 Billion Cabbage Looper Units per pound)

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FOR MANUFACTURING USE ONLY

FOR REPACKING OR RELABELING ONLY

Valent BioSciences Corporation  
870 Technology Way, Suite 100  
Libertyville, IL 60048

EPA Reg. No. 73049-5  
EPA Est. No. 33762-IA-1

Batch Code: \_\_\_\_\_

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