Active Ingredient:
* Bacillus thuringiensis*, subsp. kurstaki, strain ABTS-351,
fermentation solids, spores, and insecticidal toxins . . . . . . 23.7%
Other Ingredients ........................................ 76.3%
Total .................................................. 100.0%

Potency: 17,600 Cabbage Looper Units per mg of product
or 64 billion Cabbage Looper Units per gallon of product.

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

### FIRST AID

| If on skin or clothing | • Take off contaminated clothing.  
| | • Rinse skin immediately with plenty of water for  
| | 15 - 20 minutes.  
| | • Call a poison control center or doctor for  
| | treatment advice. |

| If in eyes | • Hold eyes open and rinse slowly and gently with  
| | water for 15 - 20 minutes.  
| | • Remove contact lenses, if present, after the first  
| | 5 minutes, then continue rinsing eye.  
| | • Call a poison control center or doctor for  
| | treatment advice. |

### 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 (24 hours) for emergency medical
treatment and/or transport emergency information. For all other
information, call 1-800-6-VALENT (682-5368).

### NOTE TO PHYSICIAN

Contains petroleum distillate – vomiting may cause aspiration
pneumonia.

### KEEP OUT OF REACH OF CHILDREN

CAUTION

See enclosure on back of this container for additional precautionary statements,
directions for use, and storage and disposal information.

EPA Registration No. 73049-17
EPA Est. No. 33762-IA-001
List No. 05555-04-05

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Valent BioSciences LLC
870 Technology Way
Libertyville, IL 60048

Lot No.

Net Contents: 2-1/2 Gallons (9.46 Liters)
**EMULSIFIABLE SUSPENSION**

**Active Ingredient:** Bacillus thuringiensis, subsp. kurstaki, strain ABTS-351, fermentation solids, spores, and insecticidal toxins

**Other Ingredients:** 23.7% Potency: 17,600 Cabbage Looper Units per mg of product or 64 billion Cabbage Looper Units per gal of product. The percent active ingredient does not indicate product performance and the potency measurements are not federally standardized.

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, or nitrile rubber, or neoprene rubber or viton
- 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.

Mixers/applicators and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least R-95, P-95, or R-P95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements in the Worker Protection Standards (WPS) for agricultural pesticides (40 CFR 170.240(4)-(6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco 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**

Do not apply directly to water, or to areas 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 aerially within 1/4 mile of any habitats of endangered or threatened lepidoptera species. 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.

**AGRICULTURAL USE REQUIREMENTS**

Use this product 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 others, 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
- Chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or viton
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter treated areas without protective clothing unless sprays have dried.

**MODE OF ACTION**

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

**GENERAL INSTRUCTIONS**

DiPel ES 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 ES to be affected. Always follow these directions:
- Treat when larvae are small (1st instar) and before economic thresholds of damage have been exceeded.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DiPel ES at the site of larvae 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 increase spray volume to improve coverage.
- Tank mixes with a contact insecticide may enhance control.
- 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 application, make the treatment when egg hatch is essentially complete, but before economic crop damage occurs.
- A sprayer-slicker or surfactant which has been approved for use on growing and harvested crops should be added for hard-to-wet crops. (Not recommended for chemigation.)
- DiPel ES is a non-restricted use pesticide and does not require a restricted use permit for purchase or use.

**GROUND AND AERIAL APPLICATIONS**

DiPel ES may be applied in ground and 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 development, weather, application equipment, and local experience.

Do not spray when wind speed favors drift beyond the area intended for use.

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.

**Mixing Recommendations:** Important -- do not add DiPel ES to the mix tank before introducing the desired quantity of water. Start the mechanical or hydraulic agitation to provide moderate circulation before adding DiPel ES. Add the desired volume of DiPel ES to the mix tank and continue agitation. Include rinse water from the container. Maintain the suspension while loading and spraying. Do not mix more DiPel ES than can be used in a 2-day period. Rinse and flush spray equipment thoroughly following each use. Selection of fluid to flush the application system will depend on what type of mixture was used during the application period. Use a strainer no finer than 50 mesh in conventional spray systems.

**CAUTION:**

DiPel ES should not be used in combination with Comite®, Bravo, Captan, Captain (except seed) or Dyrene.

**FIRST AID**

If on skin or clothing:
- Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.
- Call a poison control center or doctor for treatment advice.

If in eyes:
- Hold eyes open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Call a poison control center or doctor for treatment advice.

**KEEP OUT OF REACH OF CHILDREN**

CAUTION

E.P.A. Registration No. 73049-17
E.P.A. Est. No. 33762-IA-001

**FLUID OUNCES APPLIED PER 1000 ROW FEET**

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest</th>
<th>Pts/Acre (Ground Equipment)</th>
<th>Pts/Acre (Aerial Application)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>Field Corn, Seed Corn, Sweet Corn, Siltage Corn or Popcorn</td>
<td>European Corn Borer^1</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Corn Borer and Southwestern Corn Borer</td>
<td>1.5 - 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>First generation population</td>
<td>1.5 - 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Second generation population</td>
<td>1.5 - 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Western Bean Cutworm^2</td>
<td>2.0 - 4.0</td>
</tr>
</tbody>
</table>

^1 Apply in 6- to 8-inch band directly over whorls. Refer to table below for over the row rates.

<table>
<thead>
<tr>
<th>Row Width</th>
<th>Rate</th>
<th>1.5 pts</th>
<th>2.5 pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>1.4 oz/1000 ft</td>
<td>2.3 oz/1000 ft</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>1.5 oz/1000 ft</td>
<td>2.5 oz/1000 ft</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>1.7 oz/1000 ft</td>
<td>2.8 oz/1000 ft</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timing of Application</th>
<th>Rate/Row</th>
<th>Rate/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Corn Borer</td>
<td>1.5 pts</td>
<td>2.5 pts</td>
</tr>
<tr>
<td></td>
<td>1.5 pts</td>
<td>2.5 pts</td>
</tr>
<tr>
<td></td>
<td>1.5 pts</td>
<td>2.5 pts</td>
</tr>
</tbody>
</table>

Application should be made when young larvae are present for first or second generation corn borers. One application against the first generation of larvae should provide economic control. Two or more applications may be required against second generation borers if there is an extended period of egg deposition.

First Generation

DiPel ES should only be applied on seed corn when more than 15% to 25% of the corn plants show “shot hole” feeding in the whorls.

With irrigated or sweet corn, apply DiPel ES when not more than 25% to 35% of the whorls show feeding signs.

Second Generation

Apply DiPel ES when the field count shows not more than 50 egg masses per 100 plants and the first hatch is taking place. If worm pressures are intense, a second application may be necessary.

Cool weather may cause corn borer larvae to seek protected areas of the corn plant and to reduce the amount of feeding normally done on exposed plant parts.
parts. This alteration in feeding behavior will hamper the effectiveness of DiPel ES. Contact State and Local Extension Agents, or the U.S. Department of Agriculture’s Natural Resources Conservation Service for assistance in establishing threshold and application recommendations.

**Armyworm and Western Bean Cutworm**

For control of armyworm, treat when plants first exhibit feeding signs in the whorl or leaves. Multiple applications at approximately 3- to 5-day intervals may be necessary when populations are heavy. High-spray gallonage (50 to 75 gals per acre) will improve coverage and control. DiPel ES may be used to control small armyworms on Fall Armyworm and Western Bean Cutworm (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatments as necessary. If mature worms or heavy populations are present, a contact insecticide should be used to enhance control.

**Corn Earworm**

Treat every 1 to 3 days or at wider intervals depending on pest pressure, temperature, and geographical location. Begin treatments when 5% of the upper ears show silks. If mature worms or heavy, treat when first silks are seen and every 1 to 3 days thereafter until harvest.

**TANK MIX DIRECTIONS FOR CONTROL OF CORN PESTS**

DiPel ES can be mixed with estovarsil (1.5EC), permethrin (25W, 3.2EC, 25WP), methoxyfen (90% water-soluble powder, 24% liquid, 29% liquid) or methyl parathion (microencapsulated 2 lbs/gal) for use on sweet corn against armyworms and corn earworm in accordance with the more restrictive label limitations and precautions. No label dosage rates should be exceeded.

**For ALL STATES EXCEPT CALIFORNIA**

**(For use in California, see California Crop Section of this label)**

**Timing of Application:**

A. **Armyworm**

DiPel ES may be used to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatments as necessary. If mature worms or heavy populations are present a contact insecticide should be used to enhance control.

**DiPel ES FOR PEANUTS**

**(All states except California)**

**Application Timing:**

This product may be used to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature worms or heavy populations are present a contact insecticide should be used to enhance control.

**For ALL STATES EXCEPT CALIFORNIA**

**(For use in California, see California Crop Section of this label)**

**Timing of Application:**

A. **Armyworm**

DiPel ES may be used to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatments as necessary. If mature worms or heavy populations are present a contact insecticide should be used to enhance control.

**DiPel ES FOR ALFALFA, HAY AND OTHER FORAGE CROPS**

**(All states except California)**

**Application Timing:**

For use in California – See the California Crops Section on this label.

**For Small Spray Volumes:**

If Rate is:

- 1 pt/acre or 100 gals 1 tsp
- 1/2 pt/acre or 100 gals 1/2 tsp
- Use this amount per gal

- 1/2 pt/acre or 100 gals 1/2 tsp
- 1 tsp
- 2 tsp
- 4 tsp

**STORAGE AND DISPOSAL**

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

**Storage:** Keep containers tightly closed when not in use. Do not store at temperatures greater than 100°F. Roll or shake the container before dispensing.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment washwaters.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Repeat rinse procedure: rinse to application equipment or a mix tank or store rinsewater for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure until equipment is thoroughly clean. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact Ag Container Recycling Council at 202-861-3144 or www.acrcycle.org. If recycling is not available and purchase the container in a sanitary landfill, or by other procedures approved by state and local authorities.

**NOTICE TO USER**

Sellers 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 handling not in strict accordance with accompanying directions.

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