

352-731

8/20/2010

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

S.K. Theodorakis  
DuPont Crop Protection  
P.O. Box 30  
Newark, DE 19714

AUG 20 2010

Dear Mr. Theodorakis:

Subject: Labeling Amendment; Revised Surface/Ground Water Language  
DuPont Acelepryn Insecticide  
EPA Reg. No. 352-731  
Date Submitted: August 16, 2010

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, are acceptable. Stamped copies are enclosed for your records. Please submit one (1) final printed copy for each of the above mentioned labels before releasing the products for shipment. If you have any questions regarding this letter, please contact Kable Bo Davis at (703) 306-0415 or [davis.kable@epa.gov](mailto:davis.kable@epa.gov).

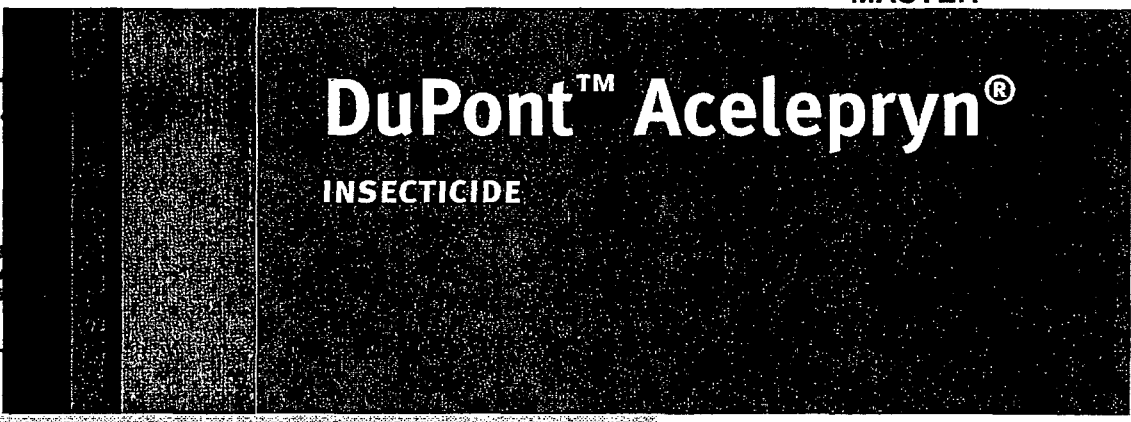
Sincerely yours,

A handwritten signature in black ink, appearing to read "Kable Bo Davis".

Venus Eagle  
Product Manager (01)  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosed- Stamped Labels

**ACCEPTED**  
 AUG 20 2010  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 352-731



**DuPont™ Acelepryn®**  
**INSECTICIDE**

GROUP 28 INSECTICIDE

INTENDED FOR USE BY COMMERCIAL APPLICATORS ONLY.

For foliar and systemic control of white grubs and other listed pests infesting landscape and recreational turfgrass (including golf courses) as well as landscape ornamentals, interior plantscapes and sod farms.

Not for Sale, Sale Into, Distribution and/or Use in Nassau, Suffolk, Kings, Queens Counties of New York State.

<i>Active Ingredient</i>	<i>By Weight</i>
Chlorantraniliprole*	
3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide	18.4%
<i>Other Ingredients</i>	81.6%
<b>TOTAL</b>	<b>100.0%</b>

ACELEPRYN® insecticide is a suspension concentrate. This product contains 1.67 pounds of active ingredient per gallon.

\*Chlorantraniliprole belongs to the anthranilic diamide chemical class.

EPA Reg. No. 352-731 EPA Establishment No. \_\_\_\_\_

**Nonrefillable Container**  
 Net: \_\_\_\_\_  
 OR

**Refillable Container**  
 Net: \_\_\_\_\_

[Note to EPA Reviewer: Appropriate container designation (one of the above) will be placed on the container label near the Net Contents section]

E.I. du Pont de Nemours and Company  
 1007 Market Street  
 Wilmington, Delaware 19898

**KEEP OUT OF REACH OF CHILDREN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**FIRST AID**

For questions regarding emergency medical treatment, you may contact 1-800-441-3637 for information.

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

When used as directed this product does not present a hazard to humans or domestic animals

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear:  
 Long-sleeved shirt and long pants.  
 Shoes plus socks.

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient Personal Protective Equipment (PPE). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, 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. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic invertebrates, oysters and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.



The miracles of science™

[NOTE: NO SIGNAL WORD is required for this product]

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**Surface Water Advisory:**

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantranilip-  
role from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

**Ground Water Advisory:**

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**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.

Professional applications to golf courses, residential, industrial and commercial lawns and sports fields are not within the scope of the Worker Protection Standard. Do not enter or allow others to enter the treated area until sprays have dried.

DuPont™ ACELEPRYN® insecticide must be used only in accordance with specifications on this label or in separate DuPont supplemental labeling that may be made temporarily available through local distributors, as a result of new EPA approvals. DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically stated on this label or other labels or bulletins published by DuPont. User assumes all risks associated with such non-specified use.

**DIRECTIONS FOR USE**

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

- Not for use on plants being grown for sale or other commercial use, or for commercial seed production.

**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 (sod farms included), 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 the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable).

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.

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

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

For early entry into 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, wear:

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

**PRODUCT INFORMATION**

ACELEPRYN® insecticide is a suspension concentrate that may be applied for the control of white grubs and other listed pests infesting landscape and recreational turfgrass (including golf courses) as well as caterpillars, clearwing moth borers and other pests of landscape ornamentals, including trees, shrubs, foliage plants, flowers and non-bearing fruit and nut trees that will not produce fruit or nuts during the season of application.

ACELEPRYN® insecticide may be used on plants or turf-grasses that are being grown for aesthetic or recreational purposes or climatic modification in or around home lawns, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, interior landscapes, ornamental gardens, wildlife plantings, parks, playgrounds, schools, day-care facilities, golf courses (tee box areas, roughs, fairways, greens, collars etc.), athletic fields, other landscaped areas, and sod farms.

ACELEPRYN® insecticide is in GROUP 28 of the EPA's Insecticide and Acaricide Groups Based on Target Site of Action (EPA PR Notice 2001-5) and may be used in rotational resistance management programs.

ACELEPRYN® insecticide must be diluted with water before application.

Consult your local DuPont Professional Products representative, Cooperative Extension Service specialist or pest control advisor for regionally specific information regarding application timing.

**APPLICATION TIMING**

**White Grubs:** Apply DuPont™ ACELEPRYN® insecticide from early April to early September for preventative and early curative control of all the major white grub species infesting turfgrass. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. The higher rate listed for white grub control in Table 1 may be required [for early season (April and May) applications where a long residual is required or] in late August or early September when less sensitive mid-instar grubs are present at the time of application. Irrigate turf immediately after application or allow rainfall to move the product into the soil.

**Annual Bluegrass Weevil:** Apply ACELEPRYN® insecticide when overwintered adult annual bluegrass weevils are observed in late April or early May to prevent damage from first generation larvae in late-May and June. An application of ACELEPRYN® insecticide at this time will also provide excellent white grub control. The higher rates listed in Table 1 may be required for applications made after mid-May.

**Billbugs:** Apply ACELEPRYN® insecticide when overwintered adult billbugs are first observed. This will usually occur in late April or early May in regions with cool-season turfgrasses. An application of ACELEPRYN® insecticide at this time will also provide excellent white grub control. The higher rates listed in Table 1 may be required for applications made after early May or when billbug species other than bluegrass billbug are present.

**Chinch Bugs:** For suppression of chinch bugs, apply ACELEPRYN® insecticide before eggs hatch.

**European Crane Fly:** Apply ACELEPRYN® insecticide between September and November to control European crane fly larvae in turfgrass. The higher rate listed in Table 1 may be required to achieve control when applications are made in November.

**Spittlebugs:** ACELEPRYN® insecticide will provide control of two-lined spittlebug when applications are made in spring or summer.

**Turf Caterpillars:** ACELEPRYN® insecticide will provide excellent curative caterpillar control in turfgrass. To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the area being treated is maintained at a mowing height of greater than one inch, then the higher rate listed in Table 1 may be required during periods of high pest pressure.

**APPLICATION RATES FOR LAWNS, GOLF COURSES AND OTHER RECREATIONAL TURFGRASS AREAS**

For maximum residual effectiveness or for optimal control of large pest infestations, apply ACELEPRYN® insecticide at up to 24 fluid ounces per acre (= 0.55 fluid ounces per 1,000 square feet or 0.313 lb AI/A) to control any of the pests listed below. Apply ACELEPRYN® insecticide in sufficient water to provide optimal distribution in the treated area. Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Restriction: Do not apply more than 38.3 fluid ounces (equivalent to 0.5 lb of active ingredient) of product per acre per year in broadcast applications to turfgrass.

**TABLE 1: TURF APPLICATION RATES**

Target Pest	ACELEPRYN® Insecticide Turf Application Rates		
	Product per Acre	Product per 1,000 Square Feet	lb AI/A
Turf Caterpillars (including armyworms, cutworms and sod webworms)	2 to 4 fl.oz.	0.046 to 0.092 fl.oz.	0.026 to 0.052
White Grubs (including Aphodius spp., Asiatic garden beetle, black turfgrass ataenius, European chafer, green June beetle, Japanese beetle, May/June beetles (Phyllophaga spp.), northern masked chafer, oriental beetle and southern masked chafer)	8 to 16 fl.oz.	0.184 to 0.367 fl.oz.	0.104 to 0.208
European Crane Fly	8 to 16 fl.oz.	0.184 to 0.367 fl.oz.	0.104 to 0.208
Billbugs	8 to 20 fl.oz.	0.184 to 0.46 fl.oz.	0.104 to 0.26
Annual bluegrass weevil	12 to 20 fl.oz.	0.275 to 0.46 fl.oz.	0.157 to 0.26
Spittlebugs	12 to 20 fl.oz.	0.275 to 0.46 fl.oz.	0.157 to 0.26
Chinch bugs (suppression only)	8 to 20 fl.oz.	0.184 to 0.46 fl.oz.	0.104 to 0.26

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**TABLE 2: TURF APPLICATION DILUTION CHART**

Application Volume (Gallons per 1,000 Square Feet)	Turf Application Rates			Fluid ounces of DuPont™ ACELEPRYN® insecti- cide diluted to these volumes of finished spray			
	Product per Acre	Product per 1,000 Sq. Ft.	lb A/A	1 gallon	5 gallons	10 gallons	100 gallons
1	1 fl.oz.	0.023 fl.oz.	0.013	0.023	0.115	0.23	2.3
	2 fl.oz.	0.046 fl.oz.	0.026	0.046	0.23	0.46	4.6
	4 fl.oz.	0.092 fl.oz.	0.052	0.092	0.46	0.92	9.2
	8 fl.oz.	0.184 fl.oz.	0.104	0.184	0.92	1.84	18.4
	16 fl.oz.	0.367 fl.oz.	0.208	0.367	1.84	3.67	36.7
	20 fl.oz.	0.46 fl.oz.	0.26	0.46	2.3	4.6	46.0
	24 fl.oz.	0.55 fl.oz.	0.313	0.55	2.76	5.5	55.0
2	1 fl.oz.	0.023 fl.oz.	0.013	0.0115	0.058	0.115	1.15
	2 fl.oz.	0.046 fl.oz.	0.026	0.023	0.115	0.23	2.3
	4 fl.oz.	0.092 fl.oz.	0.052	0.046	0.23	0.46	4.6
	8 fl.oz.	0.184 fl.oz.	0.104	0.092	0.46	0.92	9.2
	16 fl.oz.	0.367 fl.oz.	0.208	0.184	0.92	1.84	18.4
	20 fl.oz.	0.46 fl.oz.	0.26	0.23	1.15	2.3	23.0
	24 fl.oz.	0.55 fl.oz.	0.313	0.275	1.38	2.75	27.5
3	1 fl.oz.	0.023 fl.oz.	0.013	0.0077	0.039	0.077	0.77
	2 fl.oz.	0.046 fl.oz.	0.026	0.015	0.077	0.15	1.5
	4 fl.oz.	0.092 fl.oz.	0.052	0.03	0.154	0.3	3.0
	8 fl.oz.	0.184 fl.oz.	0.104	0.06	0.308	0.6	6.0
	16 fl.oz.	0.367 fl.oz.	0.208	0.123	0.616	1.23	12.3
	20 fl.oz.	0.46 fl.oz.	0.26	0.153	0.77	1.53	15.3
	24 fl.oz.	0.55 fl.oz.	0.313	0.184	0.92	1.84	18.4
4	1 fl.oz.	0.023 fl.oz.	0.013	0.0058	0.029	0.058	0.58
	2 fl.oz.	0.046 fl.oz.	0.026	0.0115	0.058	0.115	1.15
	4 fl.oz.	0.092 fl.oz.	0.052	0.023	0.116	0.23	2.3
	8 fl.oz.	0.184 fl.oz.	0.104	0.046	0.23	0.46	4.6
	16 fl.oz.	0.367 fl.oz.	0.208	0.092	0.46	0.92	9.2
	20 fl.oz.	0.46 fl.oz.	0.26	0.115	0.58	1.15	11.5
	24 fl.oz.	0.55 fl.oz.	0.313	0.138	0.7	1.38	13.8
5	1 fl.oz.	0.023 fl.oz.	0.013	0.0046	0.023	0.046	0.46
	2 fl.oz.	0.046 fl.oz.	0.026	0.0092	0.046	0.092	0.92
	4 fl.oz.	0.092 fl.oz.	0.052	0.0184	0.092	0.184	1.84
	8 fl.oz.	0.184 fl.oz.	0.104	0.037	0.184	0.37	3.7
	16 fl.oz.	0.367 fl.oz.	0.208	0.074	0.368	0.74	7.4
	20 fl.oz.	0.46 fl.oz.	0.26	0.092	0.46	0.92	9.2
	24 fl.oz.	0.55 fl.oz.	0.313	0.11	0.55	1.1	11.0
10	1 fl.oz.	0.023 fl.oz.	0.013	0.0023	0.0115	0.023	0.23
	2 fl.oz.	0.046 fl.oz.	0.026	0.0046	0.023	0.046	0.46
	4 fl.oz.	0.092 fl.oz.	0.052	0.0092	0.046	0.092	0.92
	8 fl.oz.	0.184 fl.oz.	0.104	0.0184	0.092	0.184	1.84
	16 fl.oz.	0.367 fl.oz.	0.208	0.0367	0.184	0.367	3.67
	20 fl.oz.	0.46 fl.oz.	0.26	0.046	0.23	0.46	4.6
	24 fl.oz.	0.55 fl.oz.	0.313	0.55 fl.oz.	0.276	0.55	5.5

- To convert from fluid ounces to milliliters, multiply by 29.57.
- 1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
- Do not use household utensils to measure ACELEPRYN® insecticide

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## APPLICATION RATES FOR ORNAMENTAL PLANTS (EXTERIOR LANDSCAPES AND INTERIOR PLANTSCAPES)

### Foliar Applications:

DuPont™ ACELEPRYN® insecticide mixes readily with water and may be applied with many types of application equipment. Foliar treatment application rates are listed in Table 3. Mix the appropriate amount ACELEPRYN® insecticide with the required amount of water and apply as a full coverage foliar spray to control the selected target pest. Foliar applications offer locally systemic activity against insect pests. Repeat treatment as necessary to maintain control using higher application rates as pest pressure and foliage area increases. Repeat applications must be limited

to no more than once per seven days. Certain plant species or cultivars may be sensitive to the final spray solution. If local experience is not available, then a small number of plants should be treated and observed for phytotoxicity for at least one week before making an application to the entire planting. When making foliar applications to hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader/sticker is recommended. If concentrate or mist type spray equipment is used, an equivalent amount of product should be used on the area sprayed, as would be used in a dilute application. For outdoor landscape ornamentals, broadcast applications cannot exceed a total of 38.3 fluid ounces (equivalent to 0.5 lb of active ingredient) of product per acre per year.

TABLE 3: FOLIAR ORNAMENTAL APPLICATION RATES

ACELEPRYN® insecticide Ornamental Foliar Application Rates					
Target Pests	Product per 100 Gallons	lb AI per 100 Gallons	PPM	Percent AI (wt/vol)	Maximum Gallons per Acre per Year
Leaf-feeding caterpillars (such as bagworms and tussock moth caterpillars [including whitemarked tussock moth])	1.0 fl.oz.	0.013	15.6	0.00156	3840
	2.0 fl.oz.	0.026	31.3	0.00313	1920
For maximum residual control of the pests listed above	4.0 fl.oz.	0.052	62.5	0.0625	960
	8.0 fl.oz.	0.104	125	0.0125	480
	16.0 fl.oz.	0.208	250	0.025	240

### Soil Applications:

ACELEPRYN® insecticide is a systemic product and will be translocated upward into the plant from root uptake. Soil treatment application rates are listed in Table 4. To assure optimum effectiveness, the product must be placed where the growing portion of the target plant can absorb the active ingredient. For this reason, basal application within one to three feet of the root flare of trees and shrubs is recommended. Application can be made by soil injection, soil

drenches and broadcast sprays. When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. In some cases, this delay could be 60 days or longer. For this reason, applications should be made prior to anticipated pest infestation to achieve optimum levels of control.

TABLE 4: ORNAMENTAL SOIL TREATMENT APPLICATION RATES

Target Pests	Trees: Amount per inch of diameter (DBH)		Shrubs: Amount per foot of height	
	Product	AI	Product	AI
Lace bugs	0.0625 fl.oz.	0.0008 lb	0.0625 fl.oz.	0.0008 lb
Aphids, including apple aphid	0.125 fl.oz.	0.0016 lb	0.125 fl.oz.	0.0016 lb
	0.25 fl.oz.	0.0032 lb	0.25 fl.oz.	0.0032 lb
Birch leafminer	0.25 fl.oz.	0.0032 lb	0.25 fl.oz.	0.0032 lb

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The calculations for soil injection/drench applications of DuPont™ ACELEPRYN® insecticide involve five easy steps:

- Step 1:** Calibrate the application equipment to determine its flow rate in gallons per minute.
- Step 2:** Select an injection volume per inch of tree diameter at breast height (DBH) or foot of shrub height.
- Step 3:** Refer to the Table 5 below to determine the amount of time that is required to deliver the desired volume per injection site. The example highlighted in Table 5 shows that 10 seconds are required per inch of tree DBH or foot of shrub height when injecting 1 quart of solution per site using a flow rate of 1.5 gallons per minute.

**Step 4:** Determine how much solution to mix.

**Step 5:** Refer to the Table 6 below to determine the amount of ACELEPRYN® insecticide that must be mixed in the desired volume of water based on the injection volume identified above. The example highlighted in Table 6 shows that 25 fluid ounces of ACELEPRYN® insecticide must be mixed in 50 gallons of water when applying 0.125 fluid ounces of product per inch of DBH or foot of shrub height using one quart of solution per inch of DBH or foot of shrub height.

**TABLE 5: ORNAMENTAL SOIL TREATMENT APPLICATION CALIBRATION CHART**

Volume per Site*	Flow Rate (Gallons per minute)					
	0.5 gallons	0.75 gallons	1.0 gallons	1.5 gallons	2.0 gallons	3.0 gallons
1 pint	15.0 sec.	10.0 sec.	7.5 sec.	5.0 sec.	3.75 sec.	2.5 sec.
1 quart	30.0 sec.	20.0 sec.	15.0 sec.	10.0 sec.	7.5 sec.	5.0 sec.
2 quarts	1.0 min	40.0 sec.	30.0 sec.	20.0 sec.	15.0 sec	10.0 sec.
1 gallon	2.0 min.	1 min. 20 sec.	1.0 min.	40.0 sec.	30.0 sec.	20.0 sec.

\* Site = Soil injection site – the selected volume is applied per inch of tree DBH or foot of shrub height.

**TABLE 6: ORNAMENTAL SOIL TREATMENT APPLICATION MIXING CHART**

Volume per Site*	Application Rate Per Inch or Foot	Product per 100 Gallons	Product per 50 Gallons	Product per 25 Gallons	Product per 10 Gallons	Product per 1 Gallon
1 pint	0.0625 fl.oz.	50 fl.oz.	25 fl.oz.	12.5 fl.oz.	5 fl.oz.	0.5 fl.oz.
	0.125 fl.oz.	100 fl.oz.	50 fl.oz.	25 fl.oz.	10 fl.oz.	1 fl.oz.
	0.25 fl.oz.	200 fl.oz.	100 fl.oz.	50 fl.oz.	20 fl.oz.	2 fl.oz.
1 quart	0.0625 fl.oz.	25 fl.oz.	12.5 fl.oz.	6.25 fl.oz.	2.5 fl.oz.	0.25 fl.oz.
	0.125 fl.oz.	50 fl.oz.	25 fl.oz.	12.5 fl.oz.	5 fl.oz.	0.5 fl.oz.
	0.25 fl.oz.	100 fl.oz.	50 fl.oz.	25 fl.oz.	10 fl.oz.	1 fl.oz.
2 quarts	0.0625 fl.oz.	12.5 fl.oz.	6.25 fl.oz.	3.125 fl.oz.	1.25 fl.oz.	0.125 fl.oz.
	0.125 fl.oz.	25 fl.oz.	12.5 fl.oz.	6.25 fl.oz.	2.5 fl.oz.	0.25 fl.oz.
	0.25 fl.oz.	50 fl.oz.	25 fl.oz.	12.5 fl.oz.	5 fl.oz.	0.5 fl.oz.
1 gallon	0.0625 fl.oz.	6.25 fl.oz.	3.125 fl.oz.	1.56 fl.oz.	0.625 fl.oz.	0.0625 fl.oz.
	0.125 fl.oz.	12.5 fl.oz.	6.25 fl.oz.	3.125 fl.oz.	1.25 fl.oz.	0.125 fl.oz.
	0.25 fl.oz.	25 fl.oz.	12.5 fl.oz.	6.25 fl.oz.	2.5 fl.oz.	0.25 fl.oz.

**Broadcast Applications to Flower Beds and Groundcovers:** ACELEPRYN® insecticide may be applied for white grub control in flower beds and groundcovers. Flower bed and groundcover application rates are listed in Table 7. Apply in sufficient water to uniformly cover the area being treated (a minimum of 2 gallons per 1,000 square feet is recommended for flower bed and groundcover appli-

cations). Irrigate immediately after application or allow rainfall to move the product into the soil. ACELEPRYN® insecticide may be applied to flower beds and groundcovers either before planting or after plants have been established.

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**TABLE 7: ORNAMENTAL FLOWERS AND GROWDCOVERS SOIL TREATMENT APPLICATION RATES**

Target Pest	Product per Acre	Product per 1,000 Square Feet	lb AI/A
White Grubs (Asiatic garden beetle, European chafer, green June beetle, Japanese beetle, May/June beetles (Phyllophaga spp.), northern masked chafer, oriental beetle and southern masked chafer)	8.0 fl.oz.	0.184 fl.oz.	0.104
	16.0 fl.oz.	0.367 fl.oz.	0.208

**Bark Applications:**

Apply DuPont™ ACELEPRYN® insecticide to the trunks and lower branches of trees and shrubs to control clearwing moth borer larvae. Bark treatment application rates are listed in Table 8. Make applications after the emergence of adult moths and before their eggs hatch. Thorough coverage

of the bark is required for satisfactory control. Adult emergence varies according to pest species, host tree, environmental conditions and geographic location. Consult your local DuPont Professional Products representative, Cooperative Extension Service specialist or pest control advisor for regionally specific information regarding application timing.

**TABLE 8: ORNAMENTAL BARK TREATMENT APPLICATION RATES**

Target Pests	Product per 100 Gallons	lb AI per 100 Gallons	PPM	Percent AI (wt/vol)
Clearwing Borers, including peachtree borer	4.0 fl.oz.	0.052	62.5	0.00625
	8.0 fl.oz.	0.104	125	0.0125
	16.0 fl.oz.	0.208	250	0.025
For maximum residual control of the pests listed above.	32.0 fl.oz.	0.416	500	0.05

Formula for Determining the Active Ingredient Content of the Finished Spray Mixture:

The following formula may be used to determine the percent active ingredient (wt/wt) that is in the spray tank after mixing ACELEPRYN® insecticide.

$(18.4) \times (\text{Fluid ounces of ACELEPRYN® insecticide added to spray tank})$

$= \text{Percent Active Ingredient of spray mix}$

$(\text{Gallons of finished spray mix}) \times (128)$



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## APPLICATION EQUIPMENT PREPARATION

Application equipment must be clean and free of previous pesticide deposits before mixing DuPont™ ACELEPRYN® insecticide.

### Mixing Directions:

1. Use clean, well maintained and properly calibrated application equipment.
2. Fill sprayer tank 1/4 to 1/2 full of water.
3. Shake the container of ACELEPRYN® insecticide well before pouring.
4. Then add ACELEPRYN® insecticide directly to the sprayer tank.
5. Mix thoroughly to fully disperse the insecticide and continue agitation to keep the insecticide in suspension. Use mechanical or hydraulic agitation. Do not use air agitation.
6. It is recommended that the mixture not be stored in the spray or mix tank overnight.

### Tank-mixtures:

ACELEPRYN® insecticide may be tank-mixed with other pesticides. When tank-mixing ACELEPRYN® insecticide with other pesticides, observe all precautions and limitations on each separate product label. Do not exceed label dosage rates. ACELEPRYN® insecticide may not be mixed with any product containing a label prohibition against such mixing. The physical compatibility of ACELEPRYN® insecticide will vary with different sources of pesticide products and local cultural practices. For a tank-mixture test, prepare on a small scale (pint or quart jar) using the proper proportions of pesticides and water to ensure the physical compatibility of the mixture.

### Tank-mixing Sequence:

Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after the addition of each product.

1. Water soluble bags
2. Water dispersible granules
3. Wettable powders
4. ACELEPRYN® insecticide and other water-based suspension concentrates
5. Water soluble concentrates
6. Oil-based suspension concentrates
7. Emulsifiable concentrates
8. Adjuvants, surfactants, oils
9. Soluble fertilizers
10. Drift retardants

## APPLICATION EQUIPMENT CLEANING

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all application equipment to reduce the risk of forming hardened deposits that might become difficult to remove. Drain application equipment. Thoroughly rinse application equipment and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean equipment near wells,

water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

## INTEGRATED PEST MANAGEMENT (IPM) PROGRAMS

ACELEPRYN® insecticide is recommended for IPM programs on turf and landscape ornamentals because it does not directly impact natural arthropod predator and parasitoid populations including ladybird beetles, lacewings, minute pirate bugs and predatory mites. The feeding behavior of predatory beneficial arthropods will aid in extending natural control of other insect and mite pests and will reduce the possibility of secondary pest outbreaks. ACELEPRYN® insecticide will reduce the target pest species that may serve as a food source for beneficial arthropods. If ACELEPRYN® insecticide is tank-mixed with an insect control product that negatively impacts beneficial arthropods, then the full benefit of ACELEPRYN® insecticide to the IPM program may not be realized.

## RESISTANCE MANAGEMENT

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the labeled dosages fail to suppress the pest population below threshold levels. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of active classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local DuPont Professional Products representative, Cooperative Extension Service specialist or pest control advisor for the latest information on resistance management in your area.

### Restrictions:

- Do not formulate this product into other end-use products without written permission from DuPont Professional Products.
- Do not apply this product through any type of irrigation system.
- Do not apply this product with aerial application equipment.
- Do not apply this product in commercial nurseries and greenhouses.
- Do not apply more than 38.3 fluid ounces (equivalent to 0.5 lb of active ingredient) of product per acre per year in broadcast applications to turfgrass.
- Keep people and pets away from treated area until treatment has dried
- Wait a minimum of 7 days to retreat.
- Always shake container well before use.
- The following restrictions are required to permit use of ACELEPRYN® insecticide in the State of New York:

### Golf courses:

Greens, tee boxes: Do not apply this product within 25 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

Fairways: Do not apply this product within 50 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

All other use sites:

Do not apply this product within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Refer to the Net Contents section of this product's labeling for the applicable "Refillable Container" or "Nonrefillable Container" designation.

**For Small (Capacity Equal to or Less Than 5 Gallons) Nonrefillable Plastic Containers:**

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. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available 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.

**For Large (Capacity Greater Than 5 Gallons) Nonrefillable Plastic Containers:**

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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available 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.

**For All Refillable Containers:** Refillable container. Refill this container with chlorantraniliprole only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night.

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**LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read this Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. **WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.**

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

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