

# DEFORO<sup>TM</sup>

## 600 SC

Contains chlorantraniliprole, the active ingredient used in Durentis<sup>®</sup> Insecticide.

**For Foliar and Systemic Control of Insect Pests in or on Golf Courses;  
Sports and Recreation Turf; Lawns and Landscaped Areas on and Around Residential,  
Commercial and Institutional Properties and Interior Plantscapes.  
For Foliar and Systemic Control of Insect Pests in Commercial Ornamental Nurseries  
and Greenhouses; and Commercial Sod Farms.**

**ACTIVE INGREDIENT:**

Chlorantraniliprole\*

(3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino) carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide) ..... 47.85%

**OTHER INGREDIENTS:** ..... 52.15%

**TOTAL** ..... 100.00%

Contains 5.00 lbs. of chlorantraniliprole per gallon.

\*CAS No 500008-45-7.

Deforo 600 SC is a suspension concentrate that is in the anthranilic diamide chemical class.

EPA Reg. No.: 91234-460

### 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.)

See below for additional Precautionary Statements.

Not Registered for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, Queens Counties of New York State unless permitted under FIFRA Section 24(c) Special Local Need Registration.

#### 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 SafetyCall at **1-844-685-9173** for emergency medical treatment information.

**For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident,  
Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

Deforo<sup>TM</sup> 600 SC is not manufactured, or distributed by FMC Corporation, seller of Durentis<sup>®</sup> Insecticide.

## PRECAUTIONARY STATEMENTS

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and other handlers must wear:

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

### USER SAFETY REQUIREMENTS

After the product has been diluted in accordance with label direction for use, shirt, pants, socks, and shoes are sufficient Personal Protection Equipment (PPE). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

##### Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into 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.

### SURFACE WATER ADVISORY

This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having 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 chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

### GROUNDWATER 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.

## DIRECTIONS FOR USE

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

**Deforo 600 SC** must be used only in accordance with the directions on this label, or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

Notify state and/or Federal authorities and Atticus, LLC immediately if you observe any adverse effects due to use of this product.

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY AND POOR INSECT CONTROL.**

## 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 this label about personal protective equipment (PPE), restricted-entry interval, notification to workers (as applicable). The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

#### Exceptions:

- The Worker Protection Standard does not apply when any pesticide is applied on an agricultural establishment or involving the production of plants that are in ornamental gardens, parks, golf courses and public or private lawns and grounds, and that are intended only for aesthetic purposes or climatic modification.
- If product is drenched or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. No REI is required following a soil-incorporated or a soil-drench application.

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:

- Long-sleeved shirt and long pants
- 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. WPS applicable uses include:

- Commercial or research nurseries or greenhouses.
- Turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

Professional applications to golf courses, residential, industrial and commercial lawns and sports fields are not within the scope of the Worker Protection Standard.

**Re-entry Statement:** Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried.

## RESISTANCE MANAGEMENT

For resistance management, **Deforo 600 SC** contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to **Deforo 600 SC** and other Group 28 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same area. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of **Deforo 600 SC** or other Group 28 insecticides within a growing season, or among growing seasons with different insecticide groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture

repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):

- o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
- o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
- o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
- o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
- o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or pest control advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of turf and weed biotypes.

For further information or to report suspected resistance, contact Atticus, LLC at 984-465-4800.

## INTEGRATED PEST MANAGEMENT

Atticus, LLC supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

## GENERAL INFORMATION

**Deforo 600 SC** is a suspension concentrate that contains 5.00 lbs. of chlorantraniliprole per gallon of product.

**Deforo 600 SC** is a member of the anthranilic diamide class of insecticides with a mode of action acting on insect ryanodine receptors. **Deforo 600 SC** is effective through ingestion of treated plant material. After exposure to **Deforo 600 SC** affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 - 3 days. Time applications to the most susceptible insect pest stage, typically at egg lay, egg hatch and/or newly hatched larvae before populations reach damaging levels. When pest populations are high, use the highest listed application rate for that pest.

This product will control the following listed pests. Specific information on how to control these pests can be found in the use specific sections of this label.

Annual Bluegrass Weevil (Hyperodes) Aphids Armyworms Bagworms Billbugs Birch leafminer Chinch Bugs* Clearwing moth borer larvae Cutworms European Crane Fly (larvae) Lace bugs Leaf feeding caterpillars Spittlebugs (two-lined) Sod Webworm	White Grubs including Asian Garden Beetle Black Turfgrass Ataenius (Adult) Japanese Beetle European Masked Chafer Northern Masked Chafer Southern Masked Chafer Oriental Beetle Green June Beetle May/June Beetle
*Suppression only	

## USE RESTRICTIONS

- DO NOT let people and pets enter the treated area until treatment has dried.
- DO NOT use for commercial grass seed production.
- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product with aerial application equipment.
- DO NOT apply more than 12.8 fl. oz. (379 mL) of **Deforo 600 SC** (equivalent to 0.5 lb. of any Chlorantraniliprole-containing products) per acre per calendar year to plants produced or grown outdoors.
- DO NOT apply more than 12.8 fl. oz. (379 mL) of this product (equivalent to 0.5 lb. of any Chlorantraniliprole-containing products) per acre per crop to plants produced or grown indoors and outdoors in containers.
- DO NOT use household utensils to measure **Deforo 600 SC**.

## APPLICATION DIRECTIONS

### METHODS OF APPLICATION

- Apply **Deforo 600 SC** to foliage or to the soil by ground equipment only.
- Foliar applications offer locally systemic activity against listed pests and can be made with the following ground equipment: boom sprayers, hand-wand and hand-gun sprayers.
- Soil applications can be made by soil injection, soil and container drenches, and broadcast, banded and directed sprays using boom sprayers, and hand-wand and hand-gun sprayers. To be effective, apply **Deforo 600 SC** where the root system of the target plant can readily absorb the active ingredient.
- **Deforo 600 SC** is a systemic insecticide and is most effective when it is applied so that the roots are at, or near, the site of application.
- Maintaining adequate soil moisture will ensure that **Deforo 600 SC** is available for plant root uptake and translocation for improved efficacy against listed pests.

### Use of Adjuvants

An adjuvant may be used with **Deforo 600 SC** unless otherwise specified in the use directions. **Deforo 600 SC** is compatible with most products, however not all have been tested. Use the compatibility jar test to ensure physical compatibility.

### Spray Tank Preparation

It is important that spray equipment is clean and free of existing pesticide deposits before using this product. Follow the spray tank clean out procedures specified on the label of product previously applied before adding **Deforo 600 SC** to the tank.

**Use Deforo 600 SC spray mixture immediately after mixing. Do not store the mixture.**

## DEFORO 600 SC ALONE

This product must be diluted with water before application. Fill spray tank 1/4 to 1/2 full of water. Add **Deforo 600 SC** directly to spray tank. Mix thoroughly to fully disperse the insecticide, once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation.

## DEFORO 600 SC ALONE + TANK-MIX PARTNERS

This product can be mixed with pesticide products that are labeled for use on the same crops as **Deforo 600 SC**.

Do not exceed labeled dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.

**Deforo 600 SC** may be mixed with certain liquid fertilizers for at-plant soil applications. Do not mix **Deforo 600 SC** directly with pure liquid fertilizers.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Before using a tank mix for the first time, always determine the compatibility of **Deforo 600 SC** with the tank mixtures by using a jar test.

**Deforo 600 SC** is a water-soluble liquid formulation and has been found to be compatible with most herbicides, fungicides, insecticides and growth regulators commonly used in turf and ornamental plant management. However, the physical compatibility of **Deforo 600 SC** with tank-mix partners should be tested before use. To determine the physical compatibility of **Deforo 600 SC** with other product, use a jar test, as described below.

**Jar Test Procedure:** Using a quart jar, add the proportionate amount of the products to 1/2 quart of water. Add wettable powders and water dispersible granular product first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, add the remaining 1/2 quart of water, shake and let stand for at least 5 minutes. If the combination remains mixed or can be remixed easily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients into the spray tank.

Provided the jar test indicates the mixture to be compatible, prepare the tank mixture as follows: Fill the tank 1/4 full with water. With the agitator operating, add the amount of ingredients using the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product before adding the next product.

1. Water soluble bag (WSB)
2. Water soluble granules (SG)
3. Water dispersible granules (WG, XP, DF)
4. Wettable powders (WP)
5. **Deforo 600 SC** and other water-based suspension concentrates (SC)
6. Water soluble concentrates (SL)
7. Suspoemulsions (SE)
8. Oil based suspension concentrates (OD)
9. Emulsifiable concentrates (EC)
10. Surfactants, oils, adjuvants
11. Soluble fertilizers
12. Drift retardants

Read and observe mixing instructions of all tank mix partners. Also read each product label for Directions for Use, Precautionary Statements and Restrictions and Limitations. The most restrictive labeling applies in all tank mixtures. No label dosage rate should be exceeded. Tank mixture recommendations are for use only in states where the companion products and application site are registered. In addition, certain states or geographical regions may have established dosage rate limitations. Consult your state Pesticide Control Agency for additional information regarding the maximum use rates.

## Sprayer Equipment Clean-Out

Immediately after spraying **Deforo 600 SC** and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove sediment and residues. In addition, thoroughly flush sprayer hoses, boom, and nozzles with clean water.
2. Fill the tank 1/2 full with clean water, and add appropriate detergent or ammonia (follow manufacturer's directions for use). Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom, and nozzles.
3. Drain the sprayer system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray tips and screens separately.
4. Properly dispose of all cleaning solution and rinsate in accordance with Federal, State and local regulations and guidelines.

DO NOT drain or flush equipment on or near wells, water sources or flush equipment on or near desirable trees or plants. Do not contaminate any body of water including irrigation water that may be used on other plants.

## SPECIFIC USE DIRECTIONS

### NON-AGRICULTURAL USES

**Golf courses, sports and recreation turf, lawns and landscaped areas on and around residential, commercial and institutional properties and interior landscapes**

For foliar and systemic control of insect pests in or on golf courses; sports and recreation turf; lawns and landscaped areas on and around residential, commercial and institutional properties and interior landscapes.

### USE RESTRICTIONS

- DO NOT let people and pets enter the treated area until treatment has dried.
- DO NOT use for commercial grass seed production.
- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product with aerial application equipment.
- DO NOT apply more than 12.8 fl. oz. (379 mL) of **Deforo 600 SC** (equivalent to 0.5 lb. of any Chlorantraniliprole-containing products) per acre per calendar year to plants produced or grown outdoors.
- DO NOT apply more than 12.8 fl. oz. (379 mL) of this product (equivalent to 0.5 lb. of any Chlorantraniliprole-containing products) per acre per crop to plants produced or grown indoors and outdoors in containers.

The following restrictions are required by New York to permit use of this product in the State.

- **Golf course greens and tee boxes:**
  - o DO NOT apply this product within 25 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- **Golf course fairways:**
  - o DO NOT apply this product within 50 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- **Other Use Sites:**
  - o DO NOT apply this product within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

## TURFGRASS

Use Sites: Residential, institutional, public, commercial, and industrial buildings, golf courses, parks, and recreational areas and athletic fields.			
Target Pests	Product Application Rate		Application Instructions
	Fl. Oz./ 1,000 sq. ft.	Fl. Oz./Acre	
Annual bluegrass weevil ( <i>Hyperodes</i> )	0.093 - 0.153 (0.004 - 0.006 lb. a.i.)	4.06 - 6.68 (0.158 - 0.260 lb. a.i.)	Applications should be made in April or early May to prevent damage from first generation larvae in late May and June. The higher rates listed may be required for applications made after mid-May. Higher rates may be required for later applications. Applications made at this time will also provide preventative white grub control.
Armyworms Cutworms Sod webworm	0.016 - 0.031 (0.0006 - 0.001 lb. a.i.)	0.68 - 1.33 (0.026 - 0.052 lb. a.i.)	To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then the higher of the listed application rates 0.031 fl. oz./1,000 sq. ft. (1.33 fl. oz./acre) may be required during periods of high pest pressure.
Billbugs	0.062 - 0.153 (0.002 - 0.006 lb. a.i.)	2.68 - 6.68 (0.104 - 0.260 lb. a.i.)	Apply when overwintered adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide preventative control of white grubs.
Chinch bugs (Suppression only)	0.062 - 0.153 (0.002 - 0.006 lb. a.i.)	2.68 - 6.68 (0.104 - 0.260 lb. a.i.)	Chinch Bugs can be one of the most difficult pests to control in grasses – apply before eggs hatch.
European crane fly (larvae)	0.062 - 0.123 (0.002 - 0.005 lb. a.i.)	2.68 - 5.37 (0.104 - 0.209 lb. a.i.)	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (two lined)	0.093 - 0.153 (0.004 - 0.006 lb. a.i.)	4.06 - 6.68 (0.158 - 0.260 lb. a.i.)	Apply in spring or summer.
White grubs including: Asian garden beetle Black turfgrass ataenius Japanese beetle European masked chafer Northern masked chafer Southern masked chafer Oriental beetle Green June beetle May/June beetle	0.062 - 0.123 (0.002 - 0.005 lb. a.i.)	2.68 - 5.37 (0.104 - 0.209 lb. a.i.)	Irrigation of at least 0.1" - 0.2" is recommended to help move the active ingredient into the soil. Best results will be achieved from preventative applications made just prior to peak activity when grubs are nearest the soil surface. Treatment should be applied in April through early September, with suggested application before June. The higher rate listed may be required in late August or early September when less-sensitive mid-instar grubs are present at the time of application. Exact application timing should be confirmed by the local Agricultural Extension Service in your geographic area. Confirmation of the need for treatment may be based on historical records of the site, current adult trap counts or scouting, or other applicable methods.
<b>USE RESTRICTIONS</b> • <b>Maximum Single Application Rate:</b> Do not apply more than 6.68 fl. oz. of product/acre (0.26 lb. a.i./acre) (0.153 fl. oz./1,000 sq. ft.). • <b>Maximum Annual Application Rate:</b> Do not apply more than 12.8 fl. oz. of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.). • Do not apply more than once per 7 days. • Do not enter or allow others to enter treated areas until spray has dried.			



### Turfgrass Use Rate Conversions

Product/1,000 sq. ft.			Product/Acre		
Fl. oz.	mL	Lb. a.i.	Fl. oz.	mL	Lb. a.i.
0.016	0.5	0.0006	0.68	20	0.026
0.031	0.9	0.001	1.33	39	0.052
0.062	1.8	0.002	2.68	79	0.104
0.093	2.8	0.004	4.06	120	0.158
0.123	3.6	0.005	5.37	159	0.209
0.153	4.5	0.006	6.68	198	0.260
0.290	8.6	0.011	12.8	379	0.500

### FOLIAR APPLICATIONS

**Use Sites: Ornamentals in outdoor landscapes and interiorscapes. Applications can be made to plants growing in containers, benches, flats, plugs and beds in shadehouses, outdoor nurseries, field plantings, retail nurseries, interiorscapes, residential, public and commercial landscape areas.**

Bulb, corm and tubers crops (such as tulips, calla lilies) Evergreens, including conifers Flowering plants Foliage Plants	Ground covers Non-bearing fruit and nut trees <sup>1</sup> Ornamental grasses Ornamental trees Palms	Perennial plants Shrubs Succulents Vines (non-bearing) <sup>1</sup>
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<sup>1</sup>Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

Target Pests	Product Application Rate	Application Timing	Application Instructions
	Fl. Oz./100 Gallons		
Leaf-feeding caterpillars, such as: bagworms and tussock moth caterpillars, including whitemarked tussock moth	0.7 - 5.3 (0.026 - 0.208 lb. a.i.)	Apply preventatively or after caterpillars have been observed.  Repeat treatment to maintain control using the higher listed application rates as pest pressure and foliage area increases.	For maximum control, apply at the highest rate listed. Apply in a minimum spray volume of 1 gallon per 1,000 sq. ft. as a full coverage foliar spray to control the target pests. If concentrate or mist-type spray equipment is used, apply an equivalent amount of product on the treated area as would be used in a dilute application. For hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader/ sticker is recommended.

#### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.3 fl. oz. (157 mL) of product/acre (0.208 lb. a.i./acre) (0.122 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:** Do not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do not apply more than once per 7 days.
- Do not enter or allow others to enter treated area until sprays have dried.

### Foliar Application Use Rate Conversions

Product/100 Gallons		
Fl. oz.	mL	Lb. A.i.
0.7	21	0.026
5.3	157	0.208

### SOIL APPLICATION For Control of White Grubs

Use Sites: Ornamentals in outdoor landscapes and interior landscapes				
Bulb, corm and tuber crops (such as tulips, calla lilies)		Ground covers		Perennial plants
Evergreens, including conifers		Non-bearing fruit and nut trees <sup>1</sup>		Shrubs
Flowering plants		Ornamental grasses		Succulents
Foliage Plants		Ornamental trees		Vines (non-bearing) <sup>1</sup>
		Palms		
<sup>1</sup> Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.				
Target Pests	Product Application Rate		Application Timing	Application Instructions
	Fl. Oz./ 1,000 sq. ft.	Fl. Oz./Acre		
White grubs, including Asiatic garden beetle European chafer Green June beetle Japanese beetle May/June beetles ( <i>Phyllophaga</i> spp.) Northern masked chafer Oriental beetle Southern masked chafer	0.062 - 0.123 (0.002 - 0.005 lb. a.i.)	2.68 - 5.37 (0.104 - 0.209 lb. a.i.)	For best control, apply immediately prior to egg hatch. 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.	Apply in sufficient water to uniformly cover the area being treated as a broadcast or banded treatment (a minimum of 2 gals. per 1,000 sq. ft.). Irrigate immediately after application or allow rainfall to move the product into the soil.
<b>USE RESTRICTIONS</b>				
<ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> Do not apply more than 5.37 fl. oz. of product/acre (0.209 lb. a.i./acre) (0.123 fl. oz./1,000 sq. ft.).</li><li>• <b>Maximum Annual Application Rate:</b> Do not apply more than 12.8 fl. oz. of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).</li><li>• Do not apply more than once per 7 days.</li><li>• Do not enter or allow others to enter treated area until sprays have dried.</li></ul>				

### Soil Application Use Rate Conversions

Product/1,000 sq. ft.			Product/Acre		
Fl. oz.	mL	Lb. a.i.	Fl. oz.	mL	Lb. a.i.
0.062	1.8	0.002	2.68	79	0.104
0.123	3.6	0.005	5.37	159	0.209
0.290	8.6	0.011	12.8	379	0.500

### SYSTEMIC SOIL TREATMENTS

#### Use Sites: Ornamental plants in outdoor landscaped areas and in interior plantscapes

Evergreens including conifers      Ornamental Trees      Shrubs  
Non-bearing fruit and nut trees<sup>1</sup>      Palms

<sup>1</sup>Non-bearing fruit and nut trees are those trees that will not bear edible fruit or nuts for one year after application.

Target Pests	Product Use Rates*	Application Timing	Application Instructions
	Fl. Oz./DBH of Tree or Foot of Height of Shrub		
Lace bugs Aphids, including apple aphid	0.021 - 0.084 (0.6 - 2.5 mL) (0.0008 - 0.0033 lb. a.i.)	Application to soil to protect woody plants should be made up to 60 days prior to pest infestation to allow for the insecticide to be adequately taken up by the plant.	Applications can be made through soil injection, soil drenches and broadcast sprays. For effective control apply product within 1 - 3 feet of the root flare of trees and shrubs. Use sufficient volume to reach the root zone to maximum systemic uptake.
Birch leafminer	0.084 (2.5 mL) (0.0033 lb. a.i.)		

#### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.37 fl. oz. (159 mL) of product/acre (0.209 lb. a.i./acre) (0.123 fl. oz. per 1,000 sq. ft.).
- **Maximum Annual Application Rate:** Do Not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do not apply more than once per 7 days.
- Do not enter or allow others to enter treated area until sprays have dried.

\* Amount of **Deforo 600 SC** per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs. See restrictions regarding the number of tree or shrubs that can be treated per acre in the following tables.



Maximum Number of Trees/Shrubs that Can be Treated per Acre at the Listed Rates						
Amount of Product to be Applied per Inch DBH <sup>1</sup> or Foot Height of Shrub	Diameter of Tree in Inches at Breast Height (DBH) or Height of Shrubs in Feet					
	1	2	3	4	5	6
0.021 fl. oz. (0.6 mL)	256	128	85	64	51	42
0.084 fl. oz. (2.5 mL)	64	32	21	16	12	10
<sup>1</sup> When trees have DBH greater than 6-inches and shrubs have a height greater than 6 feet, do not apply more than 0.5 fl. oz. (14.8 mL) of <b>Deforo 600 SC</b> per tree or shrub. Dilute the correct amount of <b>Deforo 600 SC</b> in a water volume that will ensure adequate coverage.						

Do not use household utensils to measure **Deforo 600 SC**

1 fluid ounce = 29.57 mL = 2 tablespoons = 6 teaspoons

To convert from fluid ounces to milliliters, multiply by 29.57.

When determining the amount of **Deforo 600 SC** to use in soil injections/drench application, the following must be addressed:

1. Calibrate the application equipment to determine the specified flow rate in gallons per minute.
2. Select an injection/drench volume per inch of tree diameter at breast height (DBH) or foot of shrub height.
3. Use the following table to determine the amount of time that is required to deliver the specified volume per injection/drench site.

Volume Selected per Tree or Shrub	Flow Rate (Gallons per Minute) and Time to Apply (Seconds)					
	0.5 Gallon	0.75 Gallon	1 Gallon	1.5 Gallons	2 Gallons	3 Gallons
1 Pint	15 sec.	10 sec.	7.5 sec.	5 sec.	3.75 sec.	2.5 sec.
1 Quart	30 sec.	20 sec.	15 sec.	10 sec.	7.5 sec.	5 sec.
2 Quarts	1 min.	40 sec.	30 sec.	20 sec.	15 sec.	10 sec.

4. Determine how much solution to mix.

5. Use the following table to determine the amount of product that must be mixed in the desired volume of water based on the injection/drench volume identified above.

### Mixing Chart for Selected Application Volumes for Soil Injection/Drench Applications

Volume Selected per Tree or Shrub	Application Rate* (fl. oz.)	Fl. Oz. Product per 1 Gallon	Fl. Oz. Product per 10 Gallons	Fl. Oz. Product per 25 Gallons	Fl. Oz. Product per 50 Gallons	Fl. Oz. Product per 100 Gallons
1 Pint	0.021	0.168	1.68	4.20	8.40	16.8
	0.084	0.670	6.70	16.75	33.5	67.0
1 Quart	0.021	0.084	0.84	2.10	4.20	8.4
	0.084	0.335	3.35	8.375	16.75	33.5
2 Quarts	0.021	0.042	0.42	1.05	2.10	4.2
	0.084	0.168	1.675	4.188	8.38	16.75
1 Gallon	0.021	0.021	0.210	0.525	1.05	2.10
	0.084	0.084	0.838	2.094	4.188	8.375

\* Amount of **Deforo 600 SC** per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs.

### BARK APPLICATIONS

**Use Sites: Ornamentals plants in outdoor landscaped areas and in interior plantscapes**

Evergreens including conifers  
Non-bearing fruit and nut trees<sup>1</sup>

Ornamental Trees  
Palms

Shrubs

<sup>1</sup> Non-bearing fruit and nut trees are those trees that will not produce edible fruit or nuts for one year after application.

Target Pest	Product Application Rate	Application Timing	Application Instructions
	Fl. Oz./ 100 Gallons		
Clearwing moth borer larvae, including peachtree borer	1.33 - 10.7 (0.052 - 0.416 lb. a.i.)	Applications should be made after adult emergence and before their eggs hatch. Consult local Cooperative Extension Agent or local pest control advisor for specific timing in your area.	Apply <b>Deforo 600 SC</b> to trunks and lower branches of trees and shrubs to control clearwing moth borer larvae. Thorough bark surface coverage is needed for control. Apply to the bark until it is thoroughly covered, but not yet to the point of runoff.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.37 fl. oz. (159 mL) of product/per acre (0.209 lb. a.i./acre) (0.123 fl. oz./1,000 sq ft).
- **Maximum Annual Application Rate:** Do Not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do Not apply more than once per 7 days.
- Do Not enter or allow others to enter treated area until sprays have dried.

### Bark Application Use Rate Conversions

Product/100 Gallons		
Fl. oz.	mL	Lb. A.i.
1.33	39	0.052
10.7	316	0.416

### CONTAINER DRENCH APPLICATIONS

Use Sites: Ornamentals plants in outdoor landscaped areas and in interior plantscapes			
Evergreens including conifers Foliage plants		Non-bearing fruit and nut trees <sup>1</sup> Ornamental Trees	Palms Shrubs
<sup>1</sup> Non-bearing fruit and nut trees are those trees that will not produce edible fruit or nuts for one year after application.			
Target Pests	Product Dilution	Application Timing	Application Instructions
	Fl. Oz./ 100 Gallons		
White Grubs, including Asiatic garden beetle European chafer Green June beetles Japanese beetle May/June beetles ( <i>Phyllophaga</i> spp.) Northern masked chafer Oriental beetle Southern masked chafer	2.7 - 5.3 (0.104 - 0.208 lb. a.i.)	Apply just before egg hatch. Historical site data or site monitoring may indicate the need for treatment.	Mix the required dose and apply it uniformly to the soil surface. Ensure to use sufficient volume to drench the entire root zone.
Lace bugs, Aphids, including apple aphid	2.7 - 10.7 (0.104 - 0.416 lb. a.i.)	Drench applications to woody plants may take up to 60 days for the active ingredient to be translocated through-out the plant.	Mix the required dose and apply it uniformly to the soil surface. Ensure to use sufficient volume to drench the entire root zone.
USE RESTRICTIONS			
<ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> Do not apply more than 5.37 fl. oz. (159 mL) of product/acre (0.209 lb. a.i./acre) (0.123 fl. oz. per 1,000 sq. ft.).</li><li>• <b>Maximum Annual Application Rate:</b> Do Not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).</li><li>• Do Not apply more than once per 7 days.</li><li>• Do Not enter or allow others to enter treated area until sprays have dried.</li></ul>			

### Container Drench Application Use Rate Conversions

Product/100 Gallons		
Fl. oz.	mL	Lb. A.i.
2.7	80	0.104
5.3	157	0.208
10.7	316	0.416

### AGRICULTURAL USES

#### Sod farms, Commercial ornamental nurseries, and Greenhouses

For foliar and systemic control of insect pests in commercial ornamental nurseries and greenhouses; and commercial sod farms.

Refer to the **AGRICULTURAL USE REQUIREMENTS** box for compliance with the Worker Protection standard for the following crops grown for agricultural production: Turfgrass grown on sod farms; ornamental non-food plants, vines, shrubs and trees; ornamental bulb, corm and tuber crops; conifers (including conifer nurseries) and Christmas trees; and non-bearing fruit and nut trees commercially produced in nurseries; greenhouses; outdoor nurseries (both field-grown and containerized plants); shade houses, lath houses and hoop houses; and retail nurseries.

### USE RESTRICTIONS

- DO NOT let people and pets enter the treated area until treatment has dried.
- DO NOT use for commercial grass seed production.
- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product with aerial application equipment.
- DO NOT apply more than 12.8 fl. oz. (379 mL) of **Deforo 600 SC** (equivalent to 0.5 lb. of any Chlorantraniliprole-containing products) per acre per calendar year to plants produced or grown outdoors.
- DO NOT apply more than 12.8 fl. oz. (379 mL) of this product (equivalent to 0.5 lb. of any Chlorantraniliprole-containing products) per acre per crop to plants produced or grown indoors and outdoors in containers.

## SOD FARMS

Target Pests	Broadcast Product Application Rate Uniform application is necessary to provide good pest control.		Application Instructions
	Fl. Oz. Product/ 1,000 sq. ft.	Fl. Oz. Product/ Acre	
Annual bluegrass weevil ( <i>Hyperodes</i> )	0.093 - 0.153 (0.004 - 0.006 lb. a.i.)	4.06 - 6.68 (0.158 - 0.260 lb. a.i.)	Applications should be made in April or early May to prevent damage from first-generation larvae in late May and June. The higher rates listed may be required for applications made after mid-May. Higher rates may be required for later applications. Applications made at this time will also provide preventative white grub control.
Armyworms Cutworms Sod webworm	0.016 - 0.031 (0.0006 - 0.001 lb. a.i.)	0.68 - 1.33 (0.026 - 0.052 lb. a.i.)	To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then the higher rate. (1.33 fl. oz. (39 mL) per acre) may be required during periods of high pest pressure.
Billbugs	0.062 - 0.153 (0.002 - 0.006 lb. a.i.)	2.68 - 6.68 (0.104 - 0.260 lb. a.i.)	Apply when overwintered adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide preventative control of white grubs.
Chinch bugs (Suppression only)	0.062 - 0.153 (0.002 - 0.006 lb. a.i.)	2.68 - 6.68 (0.104 - 0.260 lb. a.i.)	Chinch Bugs can be one of the most difficult pests to control in grasses - apply before eggs hatch.
European crane fly (larvae)	0.062 - 0.123 (0.002 - 0.005 lb. a.i.)	2.68 - 5.37 (0.104 - 0.209 lb. a.i.)	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (two lined)	0.093 - 0.153 (0.004 - 0.006 lb. a.i.)	4.06 - 6.68 (0.158 - 0.260 lb. a.i.)	Apply in spring or summer.
White grubs including: Asian garden beetle Black turfgrass atanius Japanese beetle European masked chafer Northern masked chafer Southern masked chafer Oriental beetle Green June beetle May/June beetle	0.062 - 0.123 (0.002 - 0.005 lb. a.i.)	2.68 - 5.37 (0.104 - 0.209 lb. a.i.)	Irrigation of at least 0.1" - 0.2" is recommended to help move the active ingredient into the soil. Best results will be achieved from preventative applications made just prior to peak activity when grubs are nearest the soil surface. Treatment should be applied in April through early September, with suggested application before June. The higher rate listed may be required in late August or early September when less-sensitive mid-instar grubs are present at the time of application. Exact application timing should be confirmed by the local Agricultural Extension Service in your geographic area. Confirmation of the need for treatment may be based on historical records of the site, current adult trap counts or scouting, or other applicable methods.
<b>USE RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> Do not apply more than 6.68 fl. oz. of product/acre (0.26 lb. a.i./acre) (0.153 fl. oz./1,000 sq. ft.).</li> <li>• <b>Maximum Annual Application Rate:</b> Do not apply more than 12.8 fl. oz. of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).</li> <li>• Do not apply more than once per 7 days.</li> <li>• Do not apply aerially.</li> <li>• Do not enter or allow worker entry into treated areas during the restricted-entry interval of 4 hr.</li> </ul>			

### Sod Farms Use Rate Conversions

Product/1,000 sq. ft.			Product/Acre		
Fl. oz.	mL	Lb. a.i.	Fl. oz.	mL	Lb. a.i.
0.016	0.5	0.0006	0.68	20	0.026
0.031	0.9	0.001	1.33	39	0.052
0.062	1.8	0.002	2.68	79	0.104
0.093	2.8	0.004	4.06	120	0.158
0.123	3.6	0.005	5.37	159	0.209
0.153	4.5	0.006	6.68	198	0.260
0.290	8.6	0.011	12.8	379	0.500

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## FOLIAR APPLICATIONS

**Use Sites: Ornamentals commercially produced in indoor nurseries, outdoor nurseries (including both containerized and field-grown plants), greenhouses, shade house, lath houses, and hoop houses**

Bulb, corm and tuber crops (such as tulips, calla lilies)	Ground covers	Perennial plants
Evergreens, including conifers	Non-bearing fruit and nut trees <sup>1</sup>	Shrubs
Flowering plants	Ornamental grasses	Succulents
Foliage Plants	Ornamental trees	Vines (non-bearing) <sup>1</sup>
	Palms	

<sup>1</sup>Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

Target Pest	Product Dilution	Application Timing	Application Instructions
	Fl. Oz./ 100 Gallons		
Leaf-feeding caterpillars, such as bagworms and tussock moth caterpillars, including whitemarked tussock moth	0.7 - 5.3 (0.026 - 0.208 lb. a.i.)	Apply preventatively or after caterpillars have been observed. Repeat treatment to maintain control using the higher listed application rates as pest pressure and foliage area increases.	For maximum control, apply at the highest rate listed. Apply in a minimum spray volume of 1 gallon per 1,000 sq. ft. as a full coverage foliar spray to control the target pests. If concentrate or mist-type spray equipment is used, apply an equivalent amount of product on the treated area as would be used in a dilute application. For hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader/sticker is recommended.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.3 fl. oz. of product/acre (0.208 lb. a.i./acre) (0.122 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:**
  - o For indoor ornamental product and outdoor containerized product, do not apply more than 12.8 fl. oz. (379 mL) of product (or 0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.). Do not apply more than 6 times per year.
  - o For outdoor, field-grown production, do not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do not apply more than once per 7 days.
- Do not apply aerially.
- Do not enter or allow worker entry into treated areas during the restricted-entry interval of 4 hr.

### Foliar Application Use Rate Conversions

Product/100 Gallons		
Fl. oz.	mL	Lb. A.i.
0.7	21	0.026
5.3	157	0.208
10.7	316	0.416

## SOIL APPLICATION For Control of White Grubs

**Use Sites: Ornamentals commercially produced in indoor nurseries, outdoor nurseries (including both containerized and field-grown plants), greenhouses, shade house, lath houses, and hoop houses**

Bulb, corm and tuber crops (such as tulips, calla lilies) Evergreens, including conifers Flowering plants Foliage Plants	Ground covers Non-bearing fruit and nut trees <sup>1</sup> Ornamental grasses Ornamental trees Palms	Perennial plants Shrubs Succulents Vines (non-bearing) <sup>1</sup>
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<sup>1</sup> Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

Target Pests	Product Application Rate		Application Timing	Application Instructions
	Fl. Oz./ 1,000 sq. ft.	Fl. Oz./Acre		
White grubs, including Asiatic garden beetle European chafer Green June beetle Japanese beetle May/June beetles ( <i>Phyllophaga</i> spp.) Northern masked chafer Oriental beetle Southern masked chafer	0.062 - 0.123 (0.002 - 0.005 lb. a.i.)	2.68 - 5.37 (0.104 - 0.209 lb. a.i.)	Apply immediately prior to egg hatch. 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.	Apply using 1 - 2 pts. of water or greater per sq. ft. of soil surface. Irrigate immediately after application or allow rainfall to move the product into the soil.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.37 fl. oz. of product/acre (0.209 lb. a.i./acre). (0.123 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:** Do not apply more than 12.8 fl. oz. of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do not apply more than once per 7 days.
- Do not apply aerially.
- Do not enter or allow worker entry into treated areas during the restricted-entry interval of 4 hr.

### Soil Application Use Rate Conversions

Product/1,000 sq. ft.			Product/Acre		
Fl. oz.	mL	Lb. a.i.	Fl. oz.	mL	Lb. a.i.
0.062	1.8	0.002	2.68	79	0.104
0.123	3.6	0.005	5.37	159	0.209
0.290	8.6	0.011	12.8	379	0.500

## SYSTEMIC SOIL TREATMENTS

**Use Sites: Ornamentals commercially produced in indoor nurseries, outdoor nurseries (including both containerized and field-grown plants), greenhouses, shade house, lath houses, and hoop houses**

Evergreens including conifers Non-bearing fruit and nut trees <sup>1</sup>	Ornamental Trees Palms	Shrubs
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<sup>1</sup>Non-bearing fruit and nut trees are those trees that will not bear edible fruit or nuts for one year after application.

Target Pests	Product Use Rates*	Application Timing	Application Instructions
	Fl. Oz./DBH of Tree or Foot of Height of Shrub		
Lace bugs Aphids, including apple aphid	0.021 - 0.084 (0.6 - 2.5 mL) (0.0008 - 0.0033 lb. a.i.)	Application to soil to protect woody plants should be made up to 60 days prior to pest infestation to allow for the Insecticide to be adequately taken up by the plant.	Applications can be made through soil injection, soil drenches and broadcast sprays. For effective control apply product within 1 - 3 feet of the root flare of trees and shrubs. Use sufficient volume to reach the root zone to maximum systemic uptake.
Birch leafminer	0.084 (2.5 mL) (0.0033 lb. a.i.)		

### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.37 fl. oz. (159 mL) of product/acre (0.209 lb. a.i./acre) (0.123 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:**
  - o For indoor ornamental product and outdoor containerized product, do not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.). Do not apply more than 6 times per year.
  - o For outdoor, field-grown production, do not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do not apply more than once per 7 days.
- Do not apply aerially.
- Do not enter or allow others to enter treated area until sprays have dried.
- \* Amount of **Deforo 600 SC** per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs. See restrictions regarding the number of tree or shrubs that can be treated per acre in the following tables.

### Maximum number of trees/shrubs that can be treated per acre at the listed rates

Amount of Product to be Applied per Inch DBH <sup>1</sup> or Foot Height of Shrub	Diameter of tree in inches at breast height (DBH) or Height of shrubs in feet					
	1	2	3	4	5	6
0.021 fl. oz. (0.6 mL)	256	128	85	64	51	42
0.084 fl. oz. (2.5 mL)	64	32	21	16	12	10

<sup>1</sup>When trees have DBH greater than 6-inches and shrubs have a height greater than 6 feet, do not apply more than 0.5 fl. oz. (14.8 mL) of **Deforo 600 SC** per tree or shrub. Dilute the correct amount of **Deforo 600 SC** in a water volume that will ensure adequate coverage.

Do not use household utensils to measure **Deforo 600 SC**

1 fluid ounce = 29.57 mL = 2 tablespoons = 6 teaspoons

To convert from fluid ounces to milliliters, multiply by 29.57.

When determining the amount of **Deforo 600 SC** to use in soil injections/drench application, the following must be addressed:

1. Calibrate the application equipment to determine the specified flow rate in gallons per minute.
2. Select an injection/drench volume per inch of tree diameter at breast height (DBH) or foot of shrub height.
3. Use the following table to determine the amount of time that is required to deliver the specified volume per injection/drench site.

Volume Selected per Tree or Shrub	Flow Rate (Gallons per Minute) and Time to Apply (Seconds)					
	0.5 Gallon	0.75 Gallon	1 Gallon	1.5 Gallons	2 Gallons	3 Gallons
1 Pint	15 sec.	10 sec.	7.5 sec.	5 sec.	3.75 sec.	2.5 sec.
1 Quart	30 sec.	20 sec.	15 sec.	10 sec.	7.5 sec.	5 sec.
2 Quarts	1 min.	40 sec.	30 sec.	20 sec.	15 sec.	10 sec.

4. Determine how much solution to mix.

5. Use the following table to determine the amount of product that must be mixed in the desired volume of water based on the injection/drench volume identified above.

Mixing Chart for Selected Application Volumes for Soil Injection/Drench Applications						
Volume Selected per Tree or Shrub	Application Rate* (fl. oz.)	Fl. Oz. Product per 1 Gallon	Fl. Oz. Product per 10 Gallons	Fl. Oz. Product per 25 Gallons	Fl. Oz. Product per 50 Gallons	Fl. Oz. Product per 100 Gallons
1 Pint	0.021	0.168	1.68	4.20	8.40	16.8
	0.084	0.670	6.70	16.75	33.5	67.0
1 Quart	0.021	0.084	0.84	2.10	4.20	8.4
	0.084	0.335	3.35	8.375	16.75	33.5
2 Quarts	0.021	0.042	0.42	1.05	2.10	4.2
	0.084	0.168	1.675	4.188	8.38	16.75
1 Gallon	0.021	0.021	0.210	0.525	1.05	2.10
	0.084	0.084	0.838	2.094	4.188	8.375

\* Amount of **Deforo 600 SC** per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs.

## BARK APPLICATIONS

**Use Sites: Ornamentals commercially produced in indoor nurseries, outdoor nurseries (including both containerized and field-grown plants), greenhouses, shade house, lath houses, and hoop houses**

Evergreens including conifers  
Non-bearing fruit and nut trees<sup>1</sup>

Ornamental Trees  
Palms

Shrubs

<sup>1</sup> Non-bearing fruit and nut trees are those trees that will not produce edible fruit or nuts for one year after application.

Target Pest	Product Dilution	Application Timing	Application Instructions
	Fl. Oz./ 100 Gallons		
Clearwing moth borer larvae, including peachtree borer	1.33 - 10.7 (0.052 - 0.416 lb. a.i.)	Applications should be made after adult emergence and before their eggs hatch. Consult local Cooperative Extension Agent or local pest control advisor for specific timing in your area.	Apply <b>Deforo 600 SC</b> to trunks and lower branches of trees and shrubs to control clearwing moth borer larvae. Thorough bark surface coverage is needed for control. Apply to the bark until it is thoroughly covered, but not yet to the point of runoff.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.37 fl. oz. (159 mL) of product/acre (0.209 lb. a.i./acre). (0.123 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:** Do Not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do Not apply more than once per 7 days.
- Do not apply aerially.
- Do not enter or allow worker entry into treated areas during the restricted-entry interval of 4 hr.

### Bark Application Use Rate Conversion

Product/100 Gallons		
Fl. oz.	mL	Lb. A.i.
1.33	39	0.052
10.7	316	0.416

### CONTAINER DRENCH APPLICATIONS

**Use Sites: Ornamentals commercially produced in indoor nurseries, outdoor nurseries (including both containerized and field-grown plants), greenhouses, shade house, lath houses, and hoop houses**

Evergreens including conifers  
Foliage plants

Non-bearing fruit and nut trees<sup>1</sup>  
Ornamental Trees

Palms  
Shrubs

<sup>1</sup> Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

Target Pests	Product Dilution	Application Timing	Application Instructions
	Fl. Oz. / 100 Gallons		
White Grubs, including Asiatic garden beetle European chafer Green June beetles Japanese beetle May/June beetles ( <i>Phyllophaga</i> spp.) Northern masked chafer Oriental beetle Southern masked chafer	2.7 - 5.3 (0.104 - 0.208 lb. a.i.)	Apply just before egg hatch. Historical site data or site monitoring may indicate the need for treatment.	Mix the required dose in water and apply it uniformly to the container soil surface. Apply the solution to wet the entire container without leaching.
Lace bugs Aphids, including apple aphid	2.7 - 10.7 (0.104 - 0.416 lb. a.i.)	Drench applications to woody plants may take up to 60 days for the active ingredient to be translocated throughout the plant.	Mix the required dose in water and apply it uniformly to the container soil surface. Apply the solution to wet the entire container without leaching.

#### USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 5.37 fl. oz. (159 mL) of product/acre (0.209 lb. a.i./acre) (0.123 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:**
  - o For indoor ornamental production, do not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.). Do not apply more than 6 times per year.
  - o For outdoor production (containerized and field-grown plants), do not apply more than 12.8 fl. oz. (379 mL) of product (0.5 lb. a.i. of any chlorantraniliprole-containing products) per acre per calendar year (0.29 fl. oz./1,000 sq. ft.).
- Do not apply more than once per 7 days.
- Do not apply aerially.
- Do not enter or allow others to enter treated area until sprays have dried.

**Container Drench Application Use Rate Conversions**

Product/100 Gallons		
Fl. oz.	mL	Lb. A.i.
2.7	80	0.104
5.3	157	0.208
10.7	316	0.416

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## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER HANDLING:

**For plastic containers ≤ 5 gallons: 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 other procedures allowed by state and local authorities.

**For plastic containers > 5 gallons: 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. Recap 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 other procedures allowed by state and local authorities.

## LIMITATION OF WARRANTY AND LIABILITY

**IMPORTANT: READ BEFORE USE.** Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of Atticus, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Atticus, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither Atticus, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

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