

**Not 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.**

# SPECIMEN LABEL

CHLORANTRANILIPROLE GROUP 28 INSECTICIDE

# DIAMID™ T&O

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

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

#### MANUFACTURED BY:

Prime Source, a division of  
ALBAUGH, LLC  
1525 NE 36th Street,  
Ankeny, IA 50021

#### ACTIVE INGREDIENT:

Chlorantraniliprole (CAS No. 500008-45-7): ..... 34.05%

OTHER INGREDIENTS: ..... 65.95%

TOTAL: ..... 100.00%

Contains 3.34 pound of active ingredient per gallon.

Chlorantraniliprole belongs to the anthranilic diamide chemical class.

**KEEP OUT OF REACH OF CHILDREN**

**MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS**

#### **CAUTION/PRECAUCIÓN**

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

See booklet for complete First Aid, Precautionary Statements, Directions For Use, Storage and Disposal, and Conditions of Sale and Warranty.

**For 24-hour chemical spill, leak, fire, exposure or accident response information, call CHEMTREC toll free at 1-800-424-9300.**

**Para obtener información sobre derrames, fugas, incendios, exposiciones o accidentes químicos las 24 horas, llame a CHEMTREC sin cargo al 1-800-424-9300.**



EPA Reg. No. 89442-70

AD091824S

## FIRST AID

<b>IF IN EYES/ SI ENTRA EN CONTACTO CON LOS OJOS:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> <ul style="list-style-type: none"><li>• Mantenga los ojos abiertos y enjuáguelos lenta y cuidadosamente con agua, durante 15 a 20 minutos.</li><li>• Si utiliza lentes de contacto, retírelos después de los primeros 5 minutos, luego continúe enjuagando los ojos.</li><li>• Llame al centro de control de envenenamientos o a un médico para consejo de tratamiento.</li></ul>
<b>IF ON SKIN OR CLOTHING/SI CAE EN LA PIEL:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> <ul style="list-style-type: none"><li>• Quítese la ropa contaminada.</li><li>• Enjuague la piel inmediatamente con bastante agua por 15-20 minutos.</li><li>• Llame al centro de control de envenenamientos o a un médico para consejo de tratamiento.</li></ul>

*(continued)*

### **FIRST AID (cont.)**

#### **IF SWALLOWED/ SI SE INGIERE:**

- Call a poison control center or doctor immediately for treatment advice.
  - Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to do so by a poison control center or doctor.
  - Do not give anything by mouth to an unconscious person.
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- Llame de inmediato a un centro de control de envenenamientos o a un médico para consejo de tratamiento.
  - Si la persona puede tragarse, haga que beba un vaso de agua lentamente.
  - No induzca el vómito a menos que así se lo indique un centro de control de envenenamientos o un médico.
  - No administre nada por boca a una persona que haya perdido el conocimiento.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

Cuando llame a un centro de control de envenenamiento, o a un médico, o intente obtener tratamiento, tenga a la mano el envase o la etiqueta del producto. Para información sobre la exposición a este producto que nos sea emergencia, llame al 1-888-347-6732 (7 días/semana, 24-hr). Para emergencias medicas, llame al 911.

# **PRECAUTIONARY STATEMENTS**

## **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

## **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical resistant gloves, made of barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), neoprene rubber (> 14 mils), natural rubber (> 14 mils), polyethylene, polyvinyl chloride (> 14 mils), or viton (> 14 mils)
3. Shoes plus socks

*(continued)*

# **DECLARACIONES PREVENTIVAS**

## **RIESGOS PARA LOS SERES HUMANOS Y ANIMALES DOMÉSTICOS**

**PRECAUCIÓN:** Dañino si se absorbe por la piel. Dañino si se ingiere. Causa irritación moderada en los ojos. Evite el contacto con la piel, los ojos o ropa. Lávese minuciosamente con agua y jabón después de manipularlo y antes de comer, beber, mascar chicle, consumir tabaco o ir al baño. Quitar y lavar la ropa contaminada antes de usarla nuevamente.

## **EQUIPO DE PROTECCIÓN PERSONAL (PPE)**

Los aplicadores y otros manipuladores de pesticidas (plaguicidas) deben usar:

1. Camisa de manga larga, pantalones largos
2. Guantes resistentes a productos químicos laminado de barrera, caucho de butilo (>14 mils), caucho de nitrilo (>14 mils), caucho de neopreno (> 14 mils), caucho natural (> 14 mils), polietileno, cloruro de polivinilo (> 14 mils), o vitón (> 14 mils)
3. Calcetines y zapatos

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## **PERSONAL PROTECTIVE EQUIPMENT (PPE) (cont.)**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## **EQUIPO DE PROTECCIÓN PERSONAL (PPE) (cont.)**

Deseche la ropa y otros materiales absorbentes que hayan sido empapados o muy contaminados con el concentrado de este producto. **NO** los reutilices. Siga las instrucciones del fabricante para la limpieza/mantenimiento del equipo de protección personal (PPE, por sus siglas en inglés). En caso de no existir dichas instrucciones de lavado, utilice detergente y agua caliente. Mantenga y lave el PPE separadamente de otra ropa para lavar.

### **USER SAFETY RECOMMENDATIONS**

Users should:

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

### **RECOMENDACIONES DE SEGURIDAD PARA EL USUARIO**

Los usuarios deben usar:

1. Lávese las manos antes de comer, beber, masticar chicle, consumir tabaco o ir al baño.
2. Quítese la ropa inmediatamente si el pesticida entra. Luego lávese bien y póngase ropa limpia.
3. Quítese el EPP inmediatamente después de manipular este producto. Lave el exterior de los guantes antes de quitárselos. Tan pronto como sea posible, lávese bien y cámbiese a ropa limpia.

## **PHYSICAL AND CHEMICAL HAZARDS**

**DO NOT** mix or allow to come into contact with oxidizing agent. Hazardous Chemical reaction may occur.

## **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 rain water. 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.

**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.

## **DIRECTIONS FOR USE**

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

Read all label directions before use. All applications must be made according to the Use Directions that follow or exemptions under FIFRA (supplemental labels, special local need registration, FIFRA Section 18 exemptions).

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## **INSTRUCCIONES DE USO**

El uso de este producto de forma contraria a lo indicado en su etiqueta constituye una infracción de la ley federal.

Lea todas las instrucciones de la etiqueta antes de usar. Todas las solicitudes deben realizarse de acuerdo con las Instrucciones de uso que siguen o las exenciones conforme a FIFRA (etiquetas suplementarias, registro de necesidad local especial, exenciones de la Sección 18 de FIFRA).

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

Notify state and/or Federal authorities and Albaugh 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, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.**

Diamid™ T&O can be applied to use sites that are within the scope of the Worker Protection Standard for agricultural practice, 40 CFR part 170 (see Commercial Ornamental Plant Nurseries, Greenhouses and Sod Farms), and use sites that are outside of its scope (see Golf Courses, Lawns and Landscapes, and Interior Plantscapes). Refer to the following boxes containing additional guidance regarding Agricultural Use Requirements and Non-Agricultural Use Requirements. Consult the respective sections for use-specific Use Restrictions.

Para cualquier requisito específico de su estado o tribu, consulte con la agencia estatal o tribal responsable de la regulación de pesticidas.

Notifique a las autoridades estatales y/o federales y a Albaugh inmediatamente si observa algún efecto adverso debido al uso de este producto.

**NO SEGUIR LAS INSTRUCCIONES Y PRECAUCIONES DE ESTA ETIQUETA PUEDE PROVOCAR DAÑOS EN LOS CULTIVOS, CONTROL DEFICIENTE DE INSECTOS Y/O RESIDUOS ILEGALES.**

Diamid™ T&O se puede aplicar para usar sitios que están dentro del alcance de la Norma de protección del trabajador para prácticas agrícolas, 40 CFR parte 170 (ver Viveros de plantas ornamentales comerciales, invernaderos y granjas de césped), y usar sitios que están fuera de su alcance (ver Campos de golf, céspedes y paisajes, y paisajes vegetales interiores). Consulte los siguientes cuadros que contienen orientación adicional sobre los requisitos de uso agrícola y los requisitos de uso no agrícola. Consulte las secciones respectivas para conocer las Restricciones de uso específicas.

<b>AGRICULTURAL USE REQUIREMENTS</b>  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).  <b>DO NOT</b> 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.  <b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.  <i>(continued)</i>	<b>REQUISITOS DE USO AGRICOLA</b>  Utilice este producto solo de acuerdo con su etiqueta y el Estándar para la Protección del Trabajador Agrícola (WPS, por sus siglas en inglés), 40 CFR Parte 170. Esta ley contiene los requisitos para la protección de los trabajadores agrícolas en granjas, bosques, viveros e invernaderos, y para las personas que manipulan pesticidas agrícolas. Contiene requisitos de capacitación, descontaminación, notificación y asistencia de emergencia. También contiene instrucciones específicas y excepciones relacionadas con las declaraciones en la etiqueta sobre equipo de protección personal, intervalo de entrada restringida y notificación a los trabajadores (según corresponda).  <b>NO</b> aplique este producto de manera que entre en contacto con trabajadores u otras personas, ya sea directamente o por deriva. Solo los manipuladores protegidos pueden estar en el área durante la aplicación.  <b>NO</b> ingrese o permita el ingreso de trabajadores a las áreas tratadas durante el intervalo de acceso restringido (REI, por sus siglas en inglés) de 4 horas.  <i>(continuado)</i>
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## **AGRICULTURAL USE REQUIREMENTS (cont.)**

**EXCEPTION:** 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.

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
- Chemical resistant gloves, made of barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), neoprene rubber (> 14 mils), natural rubber (> 14 mils), polyethylene, polyvinyl chloride (> 14 mils), or viton (> 14 mils)
- Shoes plus socks

## **REQUISITOS DE USO AGRICOLA (cont.)**

**Excepción:** Si el producto se aplicado por empapado o incorpora al suelo, la Norma de Protección del Trabajador, bajo ciertas circunstancias, permite que los trabajadores ingresen al área tratada si no habrá contacto con nada que haya sido tratado. No se requiere REI después de una aplicación incorporada al suelo o empapada del suelo.

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
- Chemical resistant gloves, made of barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), neoprene rubber (> 14 mils), natural rubber (> 14 mils), polyethylene, polyvinyl chloride (> 14 mils), or viton (> 14 mils)
- 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, sod 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.

# **PRODUCT INFORMATION**

## **USE SITES**

Diamid™ T&O may be applied to control the insect pests that infest turfgrass and ornamental plants listed on the label. Diamid™ T&O may be applied to the following:

### **Uses Subject to Worker Protection Standards (Commercial Ornamental Plant Nurseries, Greenhouses and Sod Farms):**

- The following crops grown for production: Ornamental 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 indoor nurseries; greenhouses; outdoor nurseries (both field-grown and containerized plants); shade houses, lath houses, and hoop houses; and retail nurseries.
- Turfgrass grown on commercial sod farms.

### **Uses NOT Subject to Worker Protection Standards (Golf Courses, Lawns and Landscapes, and Interior Plantscapes):**

- Outdoor landscape ornamentals and interior plantscapes in or around residential, commercial, recreational and institutional properties.
- For use on plants and turfgrasses intended 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, wildlife plantings, parks, playgrounds, schools, day-care facilities, golf courses, athletic fields, and other landscaped

areas. Not for use on plants or turfgrass being grown for sale or other commercial use; commercial seed production; or for research purposes.

## PLANT SAFETY

Certain plant species or cultivars may be sensitive to the final spray solution. If local experience is not available, treat a small number of plants and observe for phytotoxicity for at least one week before treating the entire planting to ensure plant safety.

## INTEGRATED PEST MANAGEMENT (IPM)

Diamid™ T&O is recommended for IPM programs as 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. If Diamid™ T&O is tank-mixed with an insect control product that negatively impacts beneficial arthropods, the full benefit of Diamid™ T&O to the IPM program may not be realized.

## RESISTANCE MANAGEMENT

<b>CHLORANTRANILIPROLE</b>	<b>GROUP 28</b>	<b>INSECTICIDE</b>
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For resistance management, Diamid™ T&O contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to Diamid™ T&O and other Group 28 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of Diamid™ T&O or other Group 28 insecticides within a growing season, or among growing seasons, with different 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):

- 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.
- Mixtures with components having the same IRAC mode of action classifications are not recommended for insect resistance management.
- When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
- Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
- 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, crop rotation, 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 certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Albaugh at 1-800-247-8013.

Albaugh encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

## USE RESTRICTIONS

- **DO NOT** use for commercial grass seed production.
- **DO NOT** formulate this product into other end-use products without written permission from Albaugh, LLC.

- **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 19.15 fluid ounces (equivalent to 0.5 lb of active ingredient) of Diamid™ T&O per acre per year to plants produced or grown outdoors.
- **DO NOT** apply more than 19.15 fluid ounces (equivalent to 0.5 lb of active ingredient) of Diamid™ T&O per acre per crop to plants produced or grown indoors and outdoors in containers.
- **DO NOT** let people and pets enter the treated area until treatment has dried.
- Not 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.

The following restrictions are required to permit use of Diamid™ T&O in the state of New York:

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

## APPLICATION DIRECTIONS

### METHODS OF APPLICATION

Apply Diamid™ T&O to foliage or to the soil by ground equipment only.

Foliar applications offer locally systemic activity against listed insect pests and can be made with ground application equipment: boom sprayers, and 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. Diamid™ T&O is a systemic product that is translocated upward into the plant from root uptake when applied to the soil. To be effective, apply Diamid™ T&O where the root system of the target plant can readily absorb the active ingredient.

## **APPLICATION EQUIPMENT**

### **Cleaning of Application Equipment:**

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 can 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.

### **Calibration of Application Equipment:**

Proper maintenance and calibration of spraying equipment are essential for optimal insect pest control. If you have questions about calibration, contact a State Extension Service specialist, the equipment manufacturer or other experts.

## **APPLICATION VOLUME AND SPRAY COVERAGE**

Diamid™ T&O must be diluted with water before application. Apply in a volume of water that provides good coverage of the foliage or soil, but does not result in run-off or leaching, as specified in the Directions for Use.

## **MIXING DIRECTIONS**

### **Diamid™ T&O Alone:**

1. Fill sprayer tank ¼ to ½ full of water.
2. Always shake container well before use.
3. Add the required amount of Diamid™ T&O directly to the sprayer tank.
4. Mix thoroughly to fully disperse and continue agitation to keep the insecticide in suspension. Use mechanical or hydraulic agitation. **DO NOT** use air agitation.
5. It is recommended that the mixture is not stored in the spray or mix tank overnight.

### **Tank Mixtures:**

Diamid™ T&O may be tank-mixed with other pesticides. 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.

The physical compatibility of Diamid™ T&O will vary with different sources of pesticide products and local cultural practices. To ensure the physical compatibility of the mixture, prepare a mix on a small scale (such as a pint or quart jar) using the proper proportions of pesticides and water.

Always shake each product container well before use. 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. Diamid™ T&O and other water-based suspension concentrates
5. Water-soluble concentrates
6. Emulsifiable concentrates
7. Adjuvants, surfactants, oils
8. Soluble fertilizers
9. Drift retardants

#### **Spray Additives:**

When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Council of Producers and Distributors of Agrotechnology (CPDA) adjuvant certification is recommended.

When making foliar applications to hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader/ sticker is recommended.

### **COMMERCIAL ORNAMENTAL PLANT NURSERIES, GREENHOUSES, AND SOD FARMS**

Apply Diamid™ T&O to control insect pests on ornamental plants grown in commercial ornamental nurseries and greenhouses; and on turfgrass produced on sod farms. Consult your local Albaugh representative, Cooperative Extension Service specialist, or pest control advisor for regionally specific information regarding application timing.

#### **Commercial Nurseries and Greenhouses:**

- Apply Diamid™ T&O as a foliar, bark or soil treatment.
- For maximum residual control, apply at highest listed application rate.

- Apply in a volume of water sufficient to uniformly cover the area being treated (a minimum of 1 gallon per 1,000 square feet).
- For soil applications, apply in a volume of water sufficient to reach the root zone where soil pests are feeding and for systemic uptake (apply Diamid™ T&O to moist soil to achieve even distribution throughout the soil profile).
- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.
- Refer to the **AGRICULTURAL USE REQUIREMENTS** box for compliance with the Worker Protection standard.

### Foliar Applications

**Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.**

Breeding Crops	Foliage plants	Perennial plants
Bulb, Corm and Tuber Crops (such as tulips, calla lilies)	Ground covers Non-bearing fruit and nut trees <sup>1</sup>	Pot and bedding plants Shrubs Succulents
Evergreens, including conifers	Ornamental grasses Ornamental trees	Vines (non-bearing) <sup>1</sup>
Flowering plants	Palms	
Flowers grown for seed production		

*(continued)*

### Foliar Applications (cont.)

TARGET PESTS	PRODUCT DILUTION	APPLICATION TIMING
Leaf-feeding caterpillars such as: Bagworms, Eastern tent caterpillar*, and tussock moth caterpillars, including whitemarked tussock moth Bristly roseslug sawfly* Japanese beetle* Viburnum leaf beetle*	1 – 8 fl oz per 100 gallons (0.026 – 0.208 lb ai per 100 gallons)	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
Fall webworm* Gypsy moth caterpillar*	0.5 – 4 fl oz per 100 gallons (0.013 – 0.104 lb ai per 100 gallons)	
Zimmerman pine moth*	8 fl oz per 100 gallons (0.208 lb ai per 100 gallons)	
Japanese beetle adults*	2 – 4 fl oz per 100 gallons (0.052 – 0.104 lb ai per 100 gallons)	Begin applications before the onset of high pest populations and reapply as needed.
Sawfly larvae*	1 – 2 fl oz per 100 gallons (0.026 – 0.052 lb ai per 100 gallons)	

(continued)

## Foliar Applications (cont.)

### USE DIRECTIONS

Mix Diamid™ T&O with the required amount of water and apply as a full-coverage foliar spray. When applying to hard-to-wet foliage, such as holly, pine, or ivy, the addition of a spreader/sticker is recommended. If the concentrate or mist-type spray equipment is used, apply an equivalent amount of product as would be used in a dilute application.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** DO NOT apply more than 8 fl oz of Diamid™ T&O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&O per 1000 sq ft).
- **Maximum Annual Application Rate:**
  - For indoor ornamental production and outdoor containerized production, DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (0.44 fl oz of Diamid™ T&O per 1000 sq ft) per crop or 0.5 lb ai per acre per crop from any chlorantraniliprole-containing products. DO NOT apply to more than 6 crops per year.
  - For outdoor, field-grown production, DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
- DO NOT apply more than once every 7 days.
- DO NOT apply aerially.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval of 4 hours.

\*NOT for use in California.

<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.

## Soil Applications for White Grubs

**Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.**

Breeding Crops	Foliage plants	Perennial plants
Bulb, Corm and Tuber Crops (such as tulips, calla lilies)	Ground covers	Pot and bedding plants
Evergreens, including conifers	Non-bearing fruit and nut trees <sup>1</sup>	Shrubs
Flowering plants	Ornamental grasses	Succulents
Flowers grown for seed production	Ornamental trees	Vines (non-bearing) <sup>1</sup>
	Palms	

TARGET PESTS	PRODUCT DILUTION	APPLICATION TIMING
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, and Southern masked chafer.	0.09 – 0.185 fl oz per 1000 sq. ft.  4 – 8 fl oz per acre  (0.104 – 0.208 lb ai per acre)	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.

### USE DIRECTIONS

Apply using 1-2 pints of water or greater per square foot of soil surface. Irrigate immediately after application or allow rainfall to move the product into the soil.

*(continued)*

## Soil Applications for White Grubs (cont.)

<b>USE RESTRICTIONS</b>
<ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> DO NOT apply more than 8 fl oz of Diamid™ T&amp;O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&amp;O per 1000 sq ft).</li> <li>• <b>Maximum Annual Application Rate:</b> DO NOT apply more than 19.15 fl oz of Diamid™ T&amp;O per acre (0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.</li> <li>• DO NOT apply more than once every 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 hours.</li> </ul>

<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.

### Systemic Soil Treatments

<b>Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.</b>		
Evergreens, including conifers	Non-bearing fruit and nut trees <sup>1</sup>	Palms Shrubs
Foliage plants	Ornamental trees	
<b>TARGET PESTS</b>	<b>PRODUCT USE RATE<sup>2</sup></b>	<b>APPLICATION TIMING</b>
Lace bugs Aphids, including apple aphid	0.03125 – 0.125 fl oz (0.00082 to 0.0033 lb ai)  per inch DBH of tree OR per foot of height of shrub	When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Applications should be made prior to pest infestation to achieve best control.
Birch leafminer Rhododendron lace bug* Hemlock woolly adelgid* Magnolia scale * False oleander scale*	0.125 fl oz (0.0033 lb ai)  per inch DBH of tree OR per foot of height of shrub	

## Systemic Soil Treatments

### USE DIRECTIONS

Application can be made by soil injection, soil drenches, and broadcast sprays. Apply Diamid™ T&O within 1-3 feet of the root flare of trees and shrubs. Apply product in sufficient water volume to reach the root zone for optimal systemic uptake.

Refer to **Soil Application Methods (Injection/Drench)** for additional information on soil injection and soil drench applications.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** DO NOT apply more than 8 fl oz of Diamid™ T&O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&O per 1000 sq ft).
- **Maximum Annual Application Rate:**
  - For indoor production and outdoor containerized production, DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (0.44 fl oz of Diamid™ T&O per 1000 sq ft) per crop or 0.5 lb ai per acre per crop from any chlorantraniliprole-containing products. DO NOT apply to more than 6 crops per year.
  - For outdoor, field-grown production, DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
- DO NOT apply more than once every 7 days.
- DO NOT apply aerially.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval of 4 hours.

\*NOT for use in California

<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.

<sup>2</sup>Amount of Diamid™ T&O 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 that can be Treated per Acre at the Listed Rates

Amount of Diamid™ T&O to be applied per inch DBH <sup>1</sup>	Diameter at Breast Height (DBH) of Tree <sup>1</sup>					
	1 inch	2 inches	3 inches	4 inches	5 inches	6 inches
0.03125 fl oz	256	128	85	64	51	42
0.125 fl oz	64	32	21	16	12	10

<sup>1</sup>For trees with a DBH greater than 6 inches, **DO NOT** apply more than 0.75 fl oz per plant. Dilute the required amount of Diamid™ T&O in a volume of water that ensures coverage.

### Maximum Number of Shrubs that can be Treated per Acre at the Listed Rates

Amount of Diamid™ T&O to be applied per foot height of shrub <sup>1</sup>	Height of Shrub <sup>1</sup>					
	1 foot	2 feet	3 feet	4 feet	5 feet	6 feet
0.03125 fl oz	256	128	85	64	51	42
0.125 fl oz	64	32	21	16	12	10

<sup>1</sup>For shrubs with a height greater than 6 feet, **DO NOT** apply more than 0.75 fl oz per plant. Dilute the required amount of Diamid™ T&O in a volume of water that ensures coverage.

### Bark Applications

**Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.**

Evergreens, including conifers

Foliage plants

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

Ornamental trees

Palms

Shrubs

(continued)

## Bark Applications (cont.)

TARGET PESTS	PRODUCT DILUTION	APPLICATION TIMING
Clearwing moth borer larvae, including peachtree borer	2 – 16 fl oz per 100 gallons (0.052 – 0.416 lb ai per 100 gallons)	Make applications after the emergence of adult moths and before their eggs hatch. Adult emergence varies according to pest species, host tree, environmental conditions and geographic location. Consult local Cooperative Extension Service specialist or pest control advisor for regionally specific information regarding application timing.

### USE DIRECTIONS

Apply Diamid™ T&O to the trunks and lower branches of trees and shrubs to control clearwing moth borer larvae.

Thorough surface spray coverage of the bark is required for control. Apply until bark is soaked thoroughly, but not to the point of runoff.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** DO NOT apply more than 8 fl oz of Diamid™ T&O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&O per 1000 sq ft).
- **Maximum Annual Application Rate:** DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
- DO NOT apply more than once every 7 days.
- DO NOT apply aerially.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval of 4 hours.

<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.

## Container Drench Applications

Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.		
Evergreens, including conifers Foliage plants	Non-bearing fruit and nut trees <sup>1</sup> Ornamental trees	Palms Shrubs
<b>TARGET PESTS</b>	<b>PRODUCT DILUTION</b>	<b>APPLICATION TIMING</b>
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, and Southern masked chafer.	4 – 8 fl oz per 100 gallons (0.104 – 0.208 lb ai per 100 gallons)	For best results, apply immediately prior to egg hatch. The need for application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.
Lace bugs Aphids, including apple aphid	4 – 16 fl oz per 100 gallons (0.104 – 0.416 lb ai per 100 gallons)	To control above-ground pests, especially those with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Applications should be made prior to anticipated pest infestation to achieve best control.

*(continued)*

## Container Drench Applications (cont.)

### USE DIRECTIONS

For White Grubs: Mix required dose in water and uniformly apply the drench solution to the container surface. Apply the solution to wet the entire container without leaching.

For Lace bugs and Aphids: Apply the drench solution uniformly to the soil to wet the entire container without leaching.

### USE RESTRICTIONS

- **Maximum Single Application Rate:** DO NOT apply more than 8 fl oz of Diamid™ T&O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&O per 1000 sq ft).
- **Maximum Annual Application Rate:**
  - For indoor production, DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (0.44 fl oz of Diamid™ T&O per 1000 sq ft) per crop or 0.5 lb ai per acre per crop from any chlorantraniliprole-containing products. DO NOT apply to more than 6 crops per year.
  - For outdoor production, DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
- DO NOT apply more than once every 7 days.
- DO NOT apply aerially.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval of 4 hours.

<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.

### Production of Turfgrass Sod on Commercial Sod Farms:

- For maximum residual control or heavy pest pressure, apply up to 10 fl oz per acre to control any of the listed pests.
- Apply in a volume of water sufficient to uniformly cover the area being treated (a minimum of 1 gallon per 1,000 square feet).
- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.
- Refer to **ADDITIONAL RATE TABLES** for the **Broadcast Application Dilution Chart**.
- Refer to the **AGRICULTURAL USE REQUIREMENTS** box for compliance with the Worker Protection standard.

## Broadcast Applications

Turfgrass Sod Produced on Commercial Sod Farms		
TARGET PESTS	PRODUCT USE RATE	APPLICATION INFORMATION
Annual bluegrass weevil	6 – 10 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply 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. The higher rates listed may be required for applications made after mid-May. An application at this time will also provide white grub control.
Billbugs	4 – 10 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply when overwintered adult billbugs are first observed. This will usually occur in late April or early May in regions with cool-season turfgrass. The higher rates listed may be required for applications made after early May or when billbug species other than bluegrass billbug are present. An application at this time will also provide white grub control.
European crane fly (larvae)	4 – 8 fl oz per acre (0.104 – 0.208 lb ai per acre)	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (two-lined)	6 – 10 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply in spring or summer.

*(continued)*

## Broadcast Applications (cont.)

Turfgrass Sod Produced on Commercial Sod Farms		
TARGET PESTS	PRODUCT USE RATE	APPLICATION INFORMATION
Turf caterpillars, including armyworms, cutworms, and sod webworms	1 – 2 fl oz per acre (0.026 – 0.052 lb ai per acre)	<p>Apply preventatively or after caterpillars have been observed.</p> <p>To ensure best control, delay water (irrigation) or mowing for 24 hours after application.</p> <p>If the area being treated is maintained at a mowing height greater than one inch, the higher rate listed may be required during periods of high pest pressure.</p>
White grubs, including <i>Aphodius</i> spp., Asiatic garden beetle, black turfgrass ataenius, European chafer, green June Beetle, Japanese beetle, May/June Beetles ( <i>Phyllophaga</i> spp.), Northern Masked chafer, oriental beetle, and Southern masked chafer	4 – 8 fl oz per acre (0.104 – 0.208 lb ai per acre)	<p>Apply from early April to early September for preventative control. The higher rate listed 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.</p> <p>Irrigate turf immediately after application or allow rainfall to move the product into the soil.</p> <p>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.</p>

*(continued)*

## Broadcast Applications (cont.)

Turfgrass Sod Produced on Commercial Sod Farms		
TARGET PESTS	PRODUCT USE RATE	APPLICATION INFORMATION
<b>SUPPRESSION ONLY:</b> Chinch bugs	4 – 10 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply before eggs hatch.
USE RESTRICTIONS		
<ul style="list-style-type: none"><li><b>Maximum Single Application Rate:</b> DO NOT apply more than 10 fl oz of Diamid™ T&amp;O (0.26 lb ai) per acre (0.23 fl oz Diamid™ T&amp;O per 1000 sq ft).</li><li><b>Maximum Annual Application Rate:</b> DO NOT apply more than 19.15 fl oz of Diamid™ T&amp;O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.</li><li>DO NOT apply more than once every 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 hours.</li></ul>		

## GOLF COURSES, LAWNS AND LANDSCAPES, AND INTERIOR PLANTSCAPES

Apply Diamid™ T&O to control listed insect pests on turf and ornamental plants grown in, on, or around golf courses, lawns and landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, athletic fields and interior plantscapes.

### Golf Course, Lawn, and Recreational Area Turf:

- For maximum residual control or heavy pest pressure, apply at rates up to 10 fl oz per acre to control any of the listed pests.
- Apply as a broadcast spray using a boom sprayer, hand-gun sprayer or similar ground equipment.
- Apply in a volume of water sufficient to uniformly cover the area being treated (a minimum of 2 gallons per 1,000 square feet).

- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.
- Refer to **ADDITIONAL RATE TABLES** for the **Broadcast Application Dilution Chart** and **SOIL APPLICATION METHODS (INJECTION/DRENCH)** for soil application directions.

### Broadcast Applications

Turfgrass in Golf Courses, Lawns on Residential or Commercial Properties, and Other Recreational Areas		
TARGET PESTS	PRODUCT USE RATE	APPLICATION INFORMATION
Annual bluegrass weevil	0.14 – 0.23 fl oz per 1000 sq ft  6 – 10 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply 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. The higher rates listed may be required for applications made after mid-May.  An application at this time will also provide white grub control.
Billbugs	0.09 – 0.23 fl oz per 1000 sq ft  4 – 10 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply when overwintered adult billbugs are first observed. This will usually occur in late April or early May in regions with cool-season turfgrass. The higher rates listed may be required for applications made after early May or when billbug species other than bluegrass billbug are present.  An application at this time will also provide white grub control.

*(continued)*

## Broadcast Applications (*cont.*)

<b>Turfgrass in Golf Courses, Lawns on Residential or Commercial Properties, and Other Recreational Areas</b>		
<b>TARGET PESTS</b>	<b>PRODUCT USE RATE</b>	<b>APPLICATION INFORMATION</b>
European crane fly (larvae)	0.09 – 0.185 fl oz per 1000 sq ft  4 – 8 fl oz per acre (0.104 – 0.208 lb ai per acre)	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (two-lined)	0.14 – 0.23 fl oz per 1000 sq ft  6 – 10 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply in spring or summer.
Turf caterpillars, including armyworms, cutworms, and sod webworms	0.025 – 0.045 fl oz per 1000 sq ft  1 – 2 fl oz per acre (0.026 – 0.052 lb ai per acre)	Apply preventatively or after caterpillars have been observed. To ensure best control, delay water (irrigation) or mowing for 24 hours after application.  If the area being treated is maintained at a mowing height greater than one inch, the higher rate listed may be required during periods of high pest pressure.

*(continued)*

## Broadcast Applications (cont.)

Turfgrass in Golf Courses, Lawns on Residential or Commercial Properties, and Other Recreational Areas		
TARGET PESTS	PRODUCT USE RATE	APPLICATION INFORMATION
White grubs, including <i>Aphodius</i> spp., Asiatic garden beetle, black turfgrass ataenius, European chafer, green June Beetle, Japanese beetle, May/June Beetles ( <i>Phyllophaga</i> spp.), Northern Masked chafer, oriental beetle, and Southern masked chafer	0.09 – 0.185 fl oz per 1000 sq ft 4 – 8 fl oz per acre (0.104 – 0.208 lb ai per acre)	<p>Apply from early April to early September for preventative control. The higher rate listed 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.</p> <p>Irrigate turf immediately after application or allow rainfall to move the product into the soil.</p> <p>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.</p>
<b>SUPPRESSION ONLY:</b> Chinch bugs	0.09 – 0.23 fl oz per 1000 sq ft 4 – 10 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply before eggs hatch.

*(continued)*

## Broadcast Applications (*cont.*)

### Turfgrass in Golf Courses, Lawns on Residential or Commercial Properties, and Other Recreational Areas

#### USE RESTRICTIONS

- **Maximum Single Application Rate:** DO NOT apply more than 10 fl oz of Diamid™ T&O (0.26 lb ai) per acre (0.23 fl oz Diamid™ T&O per 1000 sq ft).
- **Maximum Annual Application Rate:** DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
- DO NOT apply more than once every 7 days.
- DO NOT enter or allow others to enter treated areas until sprays have dried.

### Ornamentals in Outdoor Landscapes and Interior Plantscapes:

- Apply Diamid™ T&O as a foliar, bark or soil treatment to control listed insect pests.
- For maximum residual control, apply at highest listed rate.
- Apply in a volume of water sufficient to cover the area being treated (a minimum of 1 gallon per 1,000 square feet).
- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.

#### Foliar Applications

### Ornamentals in Outdoor Landscapes and Interior Plantscapes

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

(continued)

### Foliar Applications (cont.)

TARGET PESTS	PRODUCT DILUTION	APPLICATION TIMING
Leaf-feeding caterpillars such as: Bagworms, Eastern tent caterpillar*, and tussock moth caterpillars, including whitemarked tussock moth Bristly roseslug sawfly* Japanese beetle* Viburnum leaf beetle*	1 – 8 fl oz per 100 gallons (0.026 – 0.208 lb ai per 100 gallons)	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
Fall webworm* Gypsy moth caterpillar*	0.5 – 4 fl oz per 100 gallons (0.013 – 0.104 lb ai per 100 gallons)	
Zimmerman pine moth*	8 fl oz per 100 gallons (0.208 lb ai per 100 gallons)	
Japanese beetle adults*	2 – 4 fl oz per 100 gallons (0.052 – 0.104 lb ai per 100 gallons)	Begin applications before the onset of high pest populations and reapply as needed.
Sawfly larvae*	1 – 2 fl oz per 100 gallons (0.026 – 0.052 lb ai per 100 gallons)	

(continued)

## Foliar Applications (cont.)

### USE DIRECTIONS

Apply in a minimum spray volume of 1 gallon per 1000 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 8 fl oz of Diamid™ T&O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&O per 1000 sq ft).
  - **Maximum Annual Application Rate:** DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
- DO NOT apply more than once every 7 days.
- DO NOT enter or allow others to enter the treated area until sprays have dried.

\*NOT for use in California.

<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.

## Soil Applications for White Grubs

### Ornamentals in Outdoor Landscapes and Interior Plantscapes

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

(continued)

## Soil Applications for White Grubs (cont.)

TARGET PESTS	PRODUCT USE RATE	APPLICATION TIMING
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, and Southern masked chafer.	0.09 – 0.185 fl oz per 1000 sq. ft. 4 – 8 fl oz per acre (0.104 – 0.208 lb ai per acre)	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.

### USE DIRECTIONS

Apply in sufficient water to uniformly cover the area being treated as a broadcast or banded treatment (a minimum of 2 gallons per 1000 sq ft). 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 8 fl oz of Diamid™ T&O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&O per 1000 sq ft).
- **Maximum Annual Application Rate:** DO NOT apply more than 19.15 fl oz of Diamid™ T&O per acre (0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
- **DO NOT** apply more than once every 7 days.
- **DO NOT** enter or allow others to enter the treated area until sprays have dried.

<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.

## Systemic Soil Treatments

Ornamentals in Outdoor Landscapes and Interior Plantscapes		
Target Pests	Product Use Rate <sup>2</sup>	Application Timing
Evergreens, including conifers	Non-bearing fruit and nut trees <sup>1</sup> Ornamental trees	Palms Shrubs
Lace bugs Aphids, including apple aphid	0.03125 – 0.125 fl oz (0.00082 to 0.0033 lb ai) per inch DBH of tree OR per foot of height of shrub	When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Applications should be made prior to pest infestation to achieve best control.
Birch leafminer Rhododendron lace bug* Hemlock woolly adelgid* Magnolia scale * False oleander scale*	0.125 fl oz (0.0033 lb ai) per inch DBH of tree OR per foot of height of shrub	
Use Directions		
Application can be made by soil injection, soil drenches, and broadcast sprays. To be effective, Diamid™ T&O must be placed within 1-3 feet of the root flare of trees and shrubs with sufficient solution volume to reach the root zone for optimal systemic uptake.		
Use Restrictions		
<ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> DO NOT apply more than 8 fl oz of Diamid™ T&amp;O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&amp;O per 1000 sq ft).           <ul style="list-style-type: none"> <li>◦ <b>Maximum Annual Application Rate:</b> DO NOT apply more than 19.15 fl oz of Diamid™ T&amp;O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.</li> </ul> </li> <li>• DO NOT apply more than once every 7 days.</li> <li>• DO NOT enter or allow others to enter the treated area until sprays have dried.</li> </ul> <p>*NOT for use in California.</p>		

<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.

<sup>2</sup>Amount of Diamid™ T&O per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs.

Maximum Number of Trees that can be Treated per Acre at the Listed Rates						
Amount of Diamid™ T&O to be applied per inch DBH <sup>1</sup>	Diameter at Breast Height (DBH) of Tree <sup>1</sup>					
	1 inch	2 inches	3 inches	4 inches	5 inches	6 inches
0.03125 fl oz	256	128	85	64	51	42
0.125 fl oz	64	32	21	16	12	10

<sup>1</sup>For trees with a DBH greater than 6 inches, **DO NOT** apply more than 0.75 fl oz per plant. Dilute the required amount of Diamid™ T&O in a volume of water that ensures coverage.

Maximum Number of Shrubs that can be Treated per Acre at the Listed Rates						
Amount of Diamid™ T&O to be applied per foot height of shrub <sup>1</sup>	Height of Shrub <sup>1</sup>					
	1 foot	2 feet	3 feet	4 feet	5 feet	6 feet
0.03125 fl oz	256	128	85	64	51	42
0.125 fl oz	64	32	21	16	12	10

<sup>1</sup>For shrubs with a height greater than 6 feet, **DO NOT** apply more than 0.75 fl oz per plant. Dilute the required amount of Diamid™ T&O in a volume of water that ensures coverage.

## Bark Applications

Ornamentals in Outdoor Landscapes and Interior Plantscapes		
Evergreens, including conifers	Non-bearing fruit and nut trees <sup>1</sup> Ornamental trees	Palms Shrubs
Target Pests	Product Dilution	Application Timing
Clearwing moth borer larvae, including peachtree borer	2 – 16 fl oz per 100 gallons (0.052 – 0.416 lb ai per 100 gallons)	Make applications after the emergence of adult moths and before their eggs hatch. Consult local Cooperative Extension Service specialist or pest control advisor for regionally specific information regarding application timing.
Use Directions		
<p>Apply Diamid™ T&amp;O to the trunks and lower branches of trees and shrubs to control clearwing moth borer larvae.</p> <p>Thorough surface spray coverage of the bark is required for control. Apply until bark is soaked thoroughly, but not to the point of runoff.</p>		
Use Restrictions		
<ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> DO NOT apply more than 8 fl oz of Diamid™ T&amp;O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&amp;O per 1000 sq ft).</li> <li><b>Maximum Annual Application Rate:</b> DO NOT apply more than 19.15 fl oz of Diamid™ T&amp;O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.</li> <li><b>DO NOT</b> apply more than once every 7 days.</li> <li><b>DO NOT</b> enter or allow others to enter the treated area until sprays have dried.</li> </ul>		

<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.

## Container Drench Applications

<b>Ornamentals in Outdoor Landscapes and Interior Plantscapes</b>		
<b>TARGET PESTS</b>	<b>PRODUCT DILUTION</b>	<b>APPLICATION TIMING</b>
Evergreens, including conifers Foliage plants	Non-bearing fruit and nut trees <sup>1</sup> Ornamental trees	Palms Shrubs
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, and Southern masked chafer.	4 – 8 fl oz per 100 gallons (0.104 – 0.208 lb ai per 100 gallons)	For optimal control, apply immediately prior to egg hatch. The need for application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.
Lace bugs Aphids, including apple aphid	4 – 16 fl oz per 100 gallons (0.104 – 0.416 lb ai per 100 gallons)	When making drench applications to plants, especially those with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Applications should be made prior to anticipated pest infestation to achieve best control.

*(continued)*

## Container Drench Applications (cont.)

USE DIRECTIONS
Mix required dose in water and uniformly apply the drench solution to the container surface. Apply a sufficient quantity of solution 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 8 fl oz of Diamid™ T&amp;O (0.208 lb ai) per acre (0.185 fl oz Diamid™ T&amp;O per 1000 sq ft).<ul style="list-style-type: none"><li>◦ <b>Maximum Annual Application Rate:</b> DO NOT apply more than 19.15 fl oz of Diamid™ T&amp;O per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.</li></ul></li><li>• DO NOT apply more than once every 7 days.</li><li>• DO NOT enter or allow others to enter the treated area until sprays have dried.</li></ul>

<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.

## ADDITIONAL RATE TABLES

### Broadcast Application Dilution Chart:

This table provides mixing instructions to produce 1, 5, 10, and 100 gallons of finished (diluted Diamid™ T&O) spray solution on both a per-acre and per-1000 sq ft basis. For example, if you want to apply Diamid™ T&O at the 2 fl oz per acre rate in a spray volume of 1 gallon of finished spray per 1000 sq ft, add 0.46 fl oz of Diamid™ T&O to 10 gallons of water and mix thoroughly according to the mixing directions.

Note: 1 gallon per 1000 sq ft = 44 gallons per acre.

- 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 Diamid™ T&O.

Application Spray Volume (gal/1000ft <sup>2</sup> )	Product Application Rates			Fluid Ounces of Diamid™ T&O Diluted to These Volumes of Finished Spray			
	Fl oz Diamid™ T&O per acre	Fl oz Diamid™ T&O per 1000ft <sup>2</sup>	Pounds AI per acre	1 gallon	5 gallons	10 gallons	100 gallons
1	0.5	0.01	0.013	0.01	0.06	0.115	1.15
	1	0.025	0.026	0.025	0.115	0.23	2.30
	2	0.045	0.052	0.045	0.23	0.46	4.60
	4	0.09	0.104	0.09	0.46	0.92	9.20
	8	0.185	0.208	0.185	0.92	1.835	18.35
	10	0.23	0.260	0.23	1.15	2.30	23.00
2	0.5	0.01	0.013	0.005	0.03	0.06	0.575
	1	0.025	0.026	0.01	0.06	0.115	1.15
	2	0.045	0.052	0.025	0.115	0.23	2.30
	4	0.09	0.104	0.045	0.23	0.46	4.60
	8	0.185	0.208	0.09	0.46	0.92	9.20
	10	0.23	0.260	0.115	0.575	1.15	11.50
3	0.5	0.01	0.013	0.005	0.02	0.04	0.385
	1	0.025	0.026	0.01	0.04	0.075	0.75
	2	0.045	0.052	0.015	0.075	0.15	1.50
	4	0.09	0.104	0.03	0.155	0.30	3.00
	8	0.185	0.208	0.06	0.31	0.615	6.15
	10	0.23	0.260	0.075	0.385	0.765	7.65
4	0.5	0.01	0.013	0.003	0.015	0.03	0.29
	1	0.025	0.026	0.005	0.03	0.06	0.575
	2	0.045	0.052	0.01	0.06	0.115	1.15
	4	0.09	0.104	0.025	0.115	0.23	2.30
	8	0.185	0.208	0.045	0.23	0.46	4.60
	10	0.23	0.260	0.06	0.29	0.575	5.75

(continued)

Application Spray Volume (gal/1000ft <sup>2</sup> )	Product Application Rates			Fluid Ounces of Diamid™ T&O Diluted to These Volumes of Finished Spray			
	Fl oz Diamid™ T&O per acre	Fl oz Diamid™ T&O per 1000ft <sup>2</sup>	Pounds Al per acre	1 gallon	5 gallons	10 gallons	100 gallons
5	0.5	0.01	0.013	0.0025	0.01	0.025	0.23
	1	0.025	0.026	0.0045	0.025	0.045	0.46
	2	0.045	0.052	0.009	0.045	0.09	0.92
	4	0.09	0.104	0.0185	0.09	0.185	1.85
	8	0.185	0.208	0.037	0.185	0.37	3.70
	10	0.23	0.260	0.046	0.23	0.46	4.60
10	0.5	0.01	0.013	0.001	0.005	0.01	0.115
	1	0.025	0.026	0.0025	0.01	0.025	0.23
	2	0.045	0.052	0.0045	0.025	0.045	0.46
	4	0.09	0.104	0.009	0.045	0.09	0.92
	8	0.185	0.208	0.0185	0.09	0.185	1.835
	10	0.23	0.260	0.023	0.115	0.23	2.30

### Soil Application Methods (Injection/Drench):

The calculations for soil injection/drench applications of Diamid™ T&O to trees and shrubs involve the following steps:

**Step 1:** Calibrate the application equipment to determine the specified flow rate in gallons per minute.

**Step 2:** Select an injection/drench volume per inch of tree diameter at breast height (DBH) or foot of shrub height.

**Step 3:** Refer to the **CALIBRATION CHART** below to determine the amount of time that is required to deliver the specified volume per injection/drench site.

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

**Step 5:** Refer to the **MIXING CHART** below to determine the amount of Diamid™ T&O that must be mixed in the desired volume of water based on the injection/drench volume identified above.

### Calibration Chart for Soil Application (Injection/Drench)

Volume 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	15.0	10.0	7.5	5.0	3.75	2.5
1 quart	30.0	20.0	15.0	10.0	7.5	5.0
2 quarts	60.0	40.0	30.0	20.0	15.0	10.0
1 gallon	120.0	80.0	60.0	40.0	30.0	20.0

### Mixing Chart for Soil Application (Injection/Drench)

Volume per Tree or Shrub	Application Rate (fl oz)*	Fl oz Product per 100 Gallons	Fl oz Product per 50 Gallons	Fl oz Product per 25 Gallons	Fl oz Product per 10 Gallons	Fl oz Product per 1 Gallon
1 pint	0.03125	25	12.5	6.25	2.5	0.25
	0.125	100	50	25	10	1
1 quart	0.03125	12.5	6.25	3.125	1.25	0.125
	0.125	50	25	12.5	5	0.5
2 quarts	0.03125	6.25	3.125	1.5625	0.625	0.0625
	0.125	25	12.5	6.25	2.5	0.25
1 gallon	0.03125	3.125	1.5625	0.78	0.3125	0.03125
	0.125	12.5	6.25	3.125	1.25	0.125

\*Amount of Diamid™ T&O per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs.

## **STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** **DO NOT** freeze. **DO NOT** store below 40°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 around the home.

**PESTICIDE DISPOSAL:** **DO NOT** contaminate water, food or feed by storage or disposal. Dispose of excess waste or pesticide by use according to label directions or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

*(continued)*

## **ALMACENAMIENTO Y DESECHO**

**NO** contamine agua, comida ni forrajes mediante el almacenamiento y desecho.

### **ALMACENAMIENTO DE PESTICIDAS:**

**NO** congelar. **NO** lo almacene por debajo de 40°F. Guarde el producto en su envase original únicamente en un lugar inaccesible a niños y mascotas.

**NO** contamine el agua, otros pesticidas, fertilizantes, alimentos o piensos mientras esté almacenado. No para uso ni almacenamiento en el hogar.

### **DESECHO DE PESTICIDAS:** **NO**

contamine agua, comida ni forrajes mediante el almacenamiento y desecho.

Deseche el exceso o los desechos de pesticidas utilizándolos de acuerdo con las instrucciones de la etiqueta, o comuníquese con la agencia estatal de control ambiental o de pesticidas, o con el representante de desechos peligrosos de la oficina regional de la EPA más cercana para obtener orientación.

*(continuado)*

## **STORAGE AND DISPOSAL**

*(cont.)*

### **CONTAINER HANDLING less than or equal to 5 gallons:**

Non-refillable 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 by other procedures approved by state and local authorities.

## **ALMACENAMIENTO Y DESECHO (cont.)**

### **MANIPULACIÓN DE RECIPIENTES ≤ 5 galones:**

Recipientes no recargables. **NO** reutilice ni rellene este recipiente. Enjuague tres veces el recipiente (o equivalente) inmediatamente después de vaciarlo. Enjuague tres veces de la siguiente manera: Vacíe el contenido restante en el equipo de aplicación o en un tanque de mezcla y drene durante 10 segundos después de que el flujo comience a gotear. Llene 1/4 del recipiente con agua y vuelva a tapar. Agitar durante 10 segundos. Vierta el enjuague en el equipo de aplicación o en un tanque de mezcla o almacene el enjuague para su uso o eliminación posterior. Drene durante 10 segundos después de que el flujo comience a gotear. Repita este procedimiento dos veces más. Luego ofrézcalo para reciclarlo, si está disponible, o perfórelo y deséchelo en un vertedero sanitario, o mediante incineración, o mediante otros procedimientos aprobados por las autoridades estatales y locales.

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