

RESTRICTED USE PESTICIDE**Toxic to fish and other aquatic organisms.**

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

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

OpteraPro® DUO[®] GC

BIFENTHRIN	GROUP	3A	INSECTICIDE
CHLORANTRANILIPROLE	GROUP	2B	INSECTICIDE

INSECTICIDE**FOR INDOOR & OUTDOOR USE FOR CONTACT AND SYSTEMIC INSECT CONTROL ON TURF AND ORNAMENTALS****ACTIVE INGREDIENTS:**

Bifenthrin*	By Wt.	7.20%
Chlorantraniliprole**		9.35%

OTHER INGREDIENTS		83.45%
TOTAL		100.00%

*CAS No. 82657-04-3 Cis isomers 97% minimum, trans isomers 3% maximum.

**CAS No. 500008-45-7

Contains 0.64 lb. Bifenthrin and 0.83 lb. Chlorantraniliprole per gallon. Chlorantraniliprole belongs to the anthranilic diamide chemical class. Bifenthrin belongs to the pyrethroid chemical class.

**KEEP OUT OF REACH OF CHILDREN
WARNING/AVISO**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 INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE

For Medical Emergencies,
Call (877) 325-1840For Chemical Spill, Leak, Fire, or
Exposure, Call CHEMTREC
(800) 424-9300**Scan for Spanish****Escanee para Español****FIRST AID**

IF SWALLOWED	• Call a poison control center or doctor immediately for 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.
IF ON SKIN OR CLOTHING	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor immediately for treatment advice.

HOTLINE 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 (877) 325-1840 for emergency medical treatment information.

NOTE TO PHYSICIANThis product contains a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible, fats, oils, or alcohol may increase absorption and so should be avoided. **For Emergency Assistance Call (877) 325-1840.****EPA REG. NO. 228-769**EPA Est. No. indicated by the first two letters
of the batch number on this package
(AL) 228-IL-002, (VL) 70815-GA-001MANUFACTURED FOR
NUFARM AMERICAS INC.
11901 S. AUSTIN AVENUE
ALSIP, IL 60803**Net Contents
2.5 Gal. (9.46 liters)
Non-refillable**

PRECAUTIONARY STATEMENTS

WARNING/AVISO

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, Mixers, Loaders and other handlers must 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, polyvinyl chloride ≥ 14 mils or viton ≥ 14 mils.
- Shoes plus socks

Mixers and Loaders must 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, polyvinyl chloride ≥ 14 mils or viton ≥ 14 mils.
- Shoes plus socks
- Protective eyewear

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/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY REQUIREMENTS

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

PHYSICAL-CHEMICAL HAZARDS

DO NOT mix or allow to come into contact with oxidizing agents. Hazardous chemical reactions may occur.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. This product is toxic to oysters and shrimp. Use with care when applying in areas adjacent to any body of water. **DO NOT** apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. **DO NOT** make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment wash-waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms. The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

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 – Chlorantraniliprole 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

Restricted Use Pesticide

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Failure to follow the use directions and precautions on this label may result in turf injury, poor disease control, and/or illegal residues. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

RESTRICTIONS

- **DO NOT** use for commercial grass seed production.
- **DO NOT** formulate this product into other end-use products without written permission from this manufacturer.
- **DO NOT** apply this product with aerial application equipment.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply a broadcast application to interior surfaces of homes
- **DO NOT** apply this product in a way that will contact any person or pet either directly or through drift
- **DO NOT** apply to pets, food crops, or sources of electricity
- **DO NOT** use on edible crops
- **DO NOT** apply more than 77 fl. oz. (equivalent to 0.5 lb. of chlorantraniliprole active ingredient) of this product per acre per year to plants produced or grown outdoors or grown indoors and outdoors in containers.
- **DO NOT** apply more than 40 fl. oz. (equivalent to 0.2 lb. of bifenthrin active ingredient) of this product per acre per crop per year.
- Not Registered for Sale, Sale Into, Distribution and/or use in Nassau, Suffolk, Kings, Queens Counties of New York State.
- **DO NOT** apply this product through any irrigation system.
- **DO NOT** apply directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. **DO NOT** allow the product to enter any drain during or after application.
- For soil or foliar applications. **DO NOT** apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Apply this product directly to the lawn or ornamentals. Water treated area as directed on this label. **DO NOT** apply or irrigate to the point of runoff.
- **DO NOT** make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours). Rainfall within 24 hours after application may cause unintended runoff of pesticide application.
- **DO NOT** apply when the wind speed is greater than 15 mph.
- **DO NOT** apply to any impervious surfaces.

The following restrictions are required to permit use of this product by 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).
- **DO NOT** make a repeat application within two weeks of the initial application.
- Not for use on sod farms.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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 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:

- Coveralls
- Shoes plus socks
- Chemical resistant gloves made of barrier laminate, butyl rubber $\geq$ 14 mils, nitrile rubber $\geq$ 14 mils, neoprene rubber $\geq$ 14 mils, polyvinyl chloride $\geq$ 14 mils or viton $\geq$ 14 mils

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. Ornamental use in landscapes are not within the scope of the Worker Protection Standard.

Do not enter treated areas without protective clothing until sprays have dried.

PRODUCT INFORMATION

USE SITES

This product may be applied for the control of listed foliar and soil pests that infest turfgrass and ornamental plants listed on the label. This product can be applied to the following crops grown for production: Ornamental plants, vines, shrubs and trees; ornamental bulb, corm and tuber crops; conifers (including conifer nurseries) 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.

This product may also be applied to 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.

PLANT TOLERANCE

NOTE TO USER: The "Directions for Use" of this product reflect the cumulative inputs from both historical field use and product testing programs. However, it is not possible to test this product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem. Wait 5-7 days after treatment to evaluate results before making large scale applications.

INTEGRATED PEST MANAGEMENT

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.

SCOUTING

Monitor insect populations to determine whether there is a need for application of this product based on locally determined economic thresholds and pest management guidelines. More than one treatment of this product may be required to control a population of pests.

INSECT RESISTANCE MANAGEMENT

For resistance management, this product contains bifenthrin, a Group 3A pyrethroid insecticide, and chlorantraniliprole, a Group 28 anthranilic diamide insecticide. Repeated and exclusive use of this product or other Group 3A or Group 28 insecticides may lead to the buildup of resistant strains of insects in some crops.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, this product may be used as part of a resistance management strategy established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these instructions to delay the development of insecticide resistance:

- Avoid using the same mode of action (IRAC group number) on consecutive generations of insect pests.
- Apply this product using a "treatment window" approach to avoid exposure of successive insect pest generations to the same mode of action.
- A "treatment window" is defined as the period of residual activity provided by single or sequential applications of products with the same mode of action. This "treatment window" should not exceed approximately the length of one generation of the target pest.
- Within the "treatment window", make no more than 2 applications of this product or other product that contains a Group 28 insecticide within a single generation of the target pest on a crop or within a 30-day period to the same insect species on a crop.
- Following a "treatment window", rotate to a treatment window of effective products with a different mode of action. This window should approximate the duration of one generation of the target pest.
- Target the most susceptible insect life stages, whenever possible.
- **DO NOT** use less than the labeled rates of this product when applied alone or in tank mixtures.
- Monitor insect populations for product effectiveness.

If resistance to this product develops in your area, this product or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local Nufarm representative or agricultural advisor for the best alternate method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

APPLICATION DIRECTIONS

This product may be applied with all types of spray equipment used for ground applications to foliage or to soil on indicated turf and ornamental plant types and sites. 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.

- 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.
- Apply this product in sufficient water to obtain adequate uniform coverage of the foliage or soil.
- 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 interval should be adjusted depending on host susceptibility, disease pressure, resistance management practices and environmental conditions.

MIXING AND SPRAYING

This product must be diluted with water before application. Thorough, uniform coverage is essential for insect control.

Slowly invert product container several times to ensure uniform mixture. Prepare only the amount of spray mixture required for immediate use. Agitation is necessary for proper dispersal of the product. Maintain agitation throughout the spraying operation. **DO NOT** allow spray mixture to stand overnight or for prolonged periods in the spray tank. Spraying equipment should be thoroughly cleaned immediately after the application.

Product Alone: Fill the spray tank with half of the required amount of water with the agitator running, add this product to the spray tank. Continue agitation while adding the remainder of the water. Begin application of the solution after this product has completely dispersed into the mix water. Maintain agitation until all the mixture has been applied.

Tank Mixtures: This product is physically compatible with many products recommended for control of diseases, liquid fertilizers, growth regulators, insecticides, and biological control products.

If tank mixes are desired, read and follow all directions, precautions, and limitations on labeling of all products used. This product must not be mixed with any product which prohibits such mixing. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended site. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

This product is generally compatible with the products mentioned above, provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of this product with tank mix partners should be evaluated before use. A jar test should be conducted with the intended tank-mix products prior to preparation of large volumes. Use the following procedure:

Jar Compatibility Test:

1. Determine and add the recommended proportions of the products for test volume into a suitable container of water.
2. Add according to order of addition standards.
3. Mix thoroughly.
4. Allow to stand for 5 minutes.

If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that this product should not be used in the tank mix.

Consult compatibility charts or your local or state agricultural authorities for additional compatibility information.

To prepare spray solution:

- Add ½ of the required amount of water to the mix/sprayer tank.
- Start the agitator running before adding any tank mix partners.
- Add the tank mix partners in the following order:
 - Products packaged in water-soluble packaging
 - Wettable powders
 - Wettable granules (dry flowables)
 - Liquid flowables (such as this product)
 - Liquids
 - Emulsifiable concentrates
- Always allow each tank mix partner to become fully dispersed before adding the next product.
- Provide sufficient agitation while adding the remainder of the water.
- Maintain agitation until all of the mixture has been applied.

- When using this product in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including this product.
- Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.
- Use a pump with capacity to maintain the correct rated pressure for the nozzles selected.
- Maintain sufficient agitation to keep mixture in suspension.
- Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation.
- Use screens to prevent nozzles from clogging. Use 50-mesh or coarser screens placed after the tank and before the nozzles. Check nozzle manufacturer's recommendations.
- For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations.

Use of Adjuvants

In some situations where coverage is difficult to achieve such as closed canopy, dense foliage, plants with waxy leaf surfaces, or less than optimum application equipment, an adjuvant may improve performance. Use only adjuvant products that are labeled for use and follow the directions on the manufacturer's label. Always conduct a premix test for compatibility.

MANDATORY SPRAY DRIFT MANAGEMENT

Ground Boom Applications:

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

Importance of Droplet Size

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

CONTROLLING DROPLET SIZE – GROUND BOOM

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the largest spray volume and droplet size.
- Spray nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

BOOM HEIGHT – Ground Boom

- For ground equipment, the boom should remain level with the crop and have minimal bounce.

SHIELDED SPRAYERS

- Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

- When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

- Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicate an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

TURFGRASS INSECT CONTROL

This product is for use to control foliar and soil borne insect pests of turfgrass 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, sod farms, and other landscaped areas. Not for use in commercial seed production; or for research purposes.

1. Apply as a preventive or curative based upon site history and insect activity.
2. Apply in sufficient water to ensure thorough coverage and product location for pest.
3. Apply after mowing or allow sprayed area to completely dry before mowing.
4. For control of foliar insects, allow sprayed area to completely dry before irrigation.
5. For optimum turf quality and insect control, use this product in conjunction with turf management practices that promote good plant health and recovery.
6. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
7. Before use of any insecticide, proper diagnosis of the organism causing the event is important. Identification of the insect organism is essential to determine the best control measures.

Use Rate (fl. oz./A)	Bifenthrin (lb ai/A)	Chlorantraniliprole (lb ai/A)
4	0.02	0.03
6	0.03	0.04
8	0.04	0.05
10	0.05	0.06
16	0.08	0.10
20	0.1	0.13
24	0.12	0.16
32	0.16	0.208
40	0.2	0.26

Target Pest	Use Rate per Acre	Application information
Annual Bluegrass Weevil (formerly Hyperodes)(Adult) Billbugs (Adult) Black Turfgrass Ataenius (Adult) Centipedes Chinch Bugs Crickets Earwigs Fleas (Adult) Grasshoppers Leafhoppers Millipedes Pillbugs Sowbugs	20 – 40 fl. oz.	Annual Bluegrass Weevil (formerly Hyperodes) adults: Applications should be timed to control adult weevils as they leave their overwintering sites and move into turf areas. This movement (1 st generation) generally begins when Forsythia is in full bloom and concludes when flowering dogwood (<i>Cornus florida</i>) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing. Billbug adults: Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Chinch Bugs: Infest the base of turf plants and are often found in the thatch layer. Irrigation of the turf area before treatment will optimize the penetration of the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.
Crane Flies (Larvae) Fleas (Larvae) Japanese Beetle (Adult) Ticks (such as American dog, Lonestar, and Deer)	20-40 fl. oz.	Crane Flies: Treatments can be made to control early to mid-season larvae (approximately August – February) as they feed on plant crowns. Treatments made to late-season larvae (approximately March, April) may require the highest application rate to provide effective control. Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Ticks: DO NOT make spot applications. Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. A repeat application, seven days after the first, may be necessary to achieve control. DO NOT allow public use of treated areas during application or until sprays have dried.
Ants, Nuisance Bermudagrass Mite Mealybugs Mole Crickets	40 fl. oz.	Mole Crickets: Applications should be made late in the day and watered in. If the soil is not moist at application, then irrigate prior to application.
Spittlebugs (two-lined)	24 to 40 fl. oz.	Apply in spring or summer.
Turf caterpillars, including armyworms, cutworms, and sod webworms	4-8 fl. oz.	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.
White Grubs, including Aphodius spp., Asiatic garden beetle, Black turfgrass ataeinius, European chafer, green June beetle, Japanese beetle, May/June beetles (<i>Phyllophaga</i> spp.), Northern masked chafer, Oriental beetle, Southern masked chafer	16-32 fl. oz.	Apply this product from April to September for preventive and early curative control. For maximum control apply from mid-May to late June for preventative control. The higher rate listed may be required for early or late-season applications where long residual or early curative is required, respectively. The need for an application and ideal timing may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods. Irrigate turf after application or allow rainfall to move the product into the soil.

ORNAMENTAL INSECT CONTROL

This product is for use to control foliar and soil borne insect pests of ornamental plants indicated in following table that are commercially produced or maintained in indoor nurseries; greenhouses; outdoor nurseries (both field-grown and containerized plants); shade houses, lath houses, and hoop houses; and retail nurseries and Outdoor landscape ornamentals and interior plantscapes in or around residential, commercial, recreational, and institutional properties.

Table 1 - Foliar Applications to Ornamentals

Bulb, corm and tuber crops (such as tulips, calla lilies) Evergreens, including conifers Flowering plants Flowers grown for seed production Perennial plants Pot and bedding plants Shrubs		Succulents Vines (non-bearing) Foliage plants Ground covers Non-bearing fruit and nut trees Ornamental grasses Ornamental trees Palms	
Target Pests	Use Rate per Acre	Application Timing	Specific Directions
Aphids Beetles Brown soft scales Broad mites California red scale Crickets Diaprepes (Adult) Earwigs Elm leaf beetles European red mite Flea beetle Fungus gnat (Adult) Grasshoppers Lace bugs Leaf Feeding Caterpillars (such as bagworms) beet armyworm black vine weevil budworm cabbage looper cutworm fall webworm gypsy moth southern armyworm tent caterpillar tussock moth caterpillars (including white marked tussock moth) Leaf hoppers Leaf rollers Mealybugs Millipedes Mites Plant bugs (Including <i>Lygus</i> spp.) Pillbugs Pine needle scale San Jose scale Sowbugs Spider mites Thrips Tip moths Twig borers Weevils Whitefly	10-20 fl. oz.	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.	Mix with the required amount of water and apply as a full coverage foliar spray. Spray volume may range from 50 to 300 gallons of finished spray per acre depending upon plant species and plant growth stage. When applying to hard-to-wet foliage, such as holly, pine, or ivy, the addition of a spreader/sticker is recommended. If concentrate or mist type spray equipment is used, apply an equivalent amount of product as would be used in a dilute application. Beetles: Treat trunks, stems and twigs in addition to plant foliage.

(continued)

Table 1 - Foliar Applications to Ornamentals (cont.)

Target Pests	Use Rate per Acre	Application Timing	Specific Directions
Leafminers Japanese beetle Stinkbug (including brown marmorated) Pecan Leaf Scorch Mite Pine Shoot Beetle	20-32 fl. oz.		
Use Restrictions			
1) Maximum Single Application Rate: DO NOT apply more than 32 fl oz of this product per acre (0.73 fl oz of this product per 1000 sq ft) or 0.208 lb chlorantraniliprole and 0.16 lb bifenthrin per acre. 2) Maximum Annual Application Rate: - For indoor and ornamental production and outdoor containerized production, DO NOT apply more than 77 fl. oz. of this product per acre (1.77 fl oz 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 77 fl oz of this product per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year. 3) DO NOT apply more than once every 7 days. 4) Per the State of New York, the minimum application interval is 14 days.			

Table 2 - Media and Container Drench Applications to Ornamentals.

Evergreens, including conifers Foliage Plants	Non-bearing Fruit and Nut trees Ornamental trees	Palms Shrubs	
Target Pests	Product Dilution	Application Timing	Specific Instructions
Black vine weevil (larvae) 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	20-32 fl. oz. per 100 gallons	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.	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.
Aphids Lace bugs	20-32 fl. oz. 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.	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			
1) Maximum Single Application Rate: DO NOT apply more than 32 fl oz of this product per acre (0.73 fl oz of this product per 1000 sq ft) or 0.208 lb chlorantraniliprole and 0.16 lb bifenthrin per acre. 2) Maximum Annual Application Rate: - For indoor and ornamental production and outdoor containerized production, DO NOT apply more than 77 fl. oz. of this product per acre (1.77 fl oz 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 77 fl oz of this product per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year. 3) DO NOT apply more than once every 7 days. 4) Per the State of New York, the minimum application interval is 14 days.			

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store above 28°F or agitate before use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by 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. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

DO NOT pour or dispose down-the-drain or sewer.

CONTAINER HANDLING:

NOTE: This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Non refillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type / size.

Non-refillable Containers 5 Gallons or Less: Non-refillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Non-refillable Containers Larger than 5 Gallons: Non-refillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Containers Larger than 5 Gallons: Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing 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.

Refillable Container: Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1-800-345-3330 to arrange for return of the empty refillable container.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you **DO NOT** agree with or **DO NOT** accept any of the directions for use, the warranty disclaimers, or limitations on liability, **DO NOT** use the product, and return it unopened to the Seller, and the purchase price will be refunded.

RV072726[1]

PULL HERE TO OPEN

19004000

RV072726[1]

RESTRICTED USE PESTICIDE
Toxic to fish and other aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

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

OpteraPro

DUO
GC

BIFENTHRIN	GROUP	3A	INSECTICIDE
CHLORANTRANILIPROLE	GROUP	2B	INSECTICIDE

INSECTICIDE

FOR INDOOR & OUTDOOR USE FOR CONTACT AND SYSTEMIC INSECT CONTROL ON TURF AND ORNAMENTALS

ACTIVE INGREDIENTS:

Bifenthrin* **By Wt.** 7.20%

Chlorantraniliprole** 9.35%

OTHER INGREDIENTS 83.45%

TOTAL 100.00%

*CAS No. 82657-04-3 Cis isomers 97% minimum, trans isomers 3% maximum.

**CAS No. 500008-45-7

Contains 0.64 lb. Bifenthrin and 0.83 lb. Chlorantraniliprole per gallon. Chlorantraniliprole belongs to the anthranilic diamide chemical class. Bifenthrin belongs to the pyrethroid chemical class.

KEEP OUT OF REACH OF CHILDREN
WARNING/AVISO

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 INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE

FIRST AID	
IF SWALLOWED	• Call a poison control center or doctor immediately for 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.
IF ON SKIN OR CLOTHING	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor immediately for treatment advice.
HOTLINE 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 (877) 325-1840 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible, fats, oils, or alcohol may increase absorption and so should be avoided. For Emergency Assistance Call (877) 325-1840.	

PRECAUTIONARY STATEMENTS
WARNING/AVISO

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PHYSICAL-CHEMICAL HAZARDS

DO NOT mix or allow to come into contact with oxidizing agents. Hazardous chemical reactions may occur.

DIRECTIONS FOR USE
Restricted Use Pesticide

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Failure to follow the use directions and precautions on this label may result in turf injury, poor disease control, and/or illegal residues. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

For Medical Emergencies, Call (877) 325-1840

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

STORAGE AND DISPOSAL

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EPA REG. NO. 228-769

EPA Est. No. indicated by the first two letters of the batch number on this package (AL) 228-IL-002, (VL) 70815-GA-001

MANUFACTURED FOR
NUFARM AMERICAS INC.
11901 S. AUSTIN AVENUE
ALSIP, IL 60803

Net Contents
2.5 Gal. (9.46 liters)
Non-refillable