This information is for promotional purposes only. Space considerations may require information to be omitted.
Always refer to the actual package for complete label verbiage. This product may not yet be available or approved for sale or use in your area.

Not Registered for Sale, Sale Into, Distribution and/or Use in Nassau, Suffolk, Kings, or Queens Counties of New York State unless permitted under FIFRA Section 24(c) Special Local Need Registration.

ASENRA™

Contains chlorantraniliprole, the active ingredient used in Acelepryn®.

Insecticide

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.

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ACTIVE INGREDIENT:	**(% by weight)**
Chlorantraniliprole*	18.4%
OTHER INGREDIENTS:	81.6%
TOTAL:	100.0%

*CAS No. 500008-45-7

Chlorantraniliprole belongs to the anthranilic diamide chemical class.

Asenra is formulated as a suspension concentrate that contains 1.67 lb. chlorantraniliprole per gallon of product.

EPA Reg. No. 91234-365

KEEP OUT OF REACH OF CHILDREN

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

See below for additional Precautionary Statements and Directions for Use.

FIRST AID
HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at **1-844-685-9173** for emergency medical treatment information.

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

Asenra™ is not manufactured, or distributed by Syngenta Professional Products, seller of Acelepryn®.

Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

User Safety Requirements

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

User Safety Recommendations

Users should:

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

ENVIRONMENTAL HAZARDS

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

Surface Water Advisory

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

Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater 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).

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 Atticus, LLC immediately if you observe any adverse effects due to use of this product.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.

Asenra 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** section), and use sites that are outside of its scope (see **GOLF COURSES, LAWNS AND LANDSCAPES, AND INTERIOR PLANTSCAPES** section). Refer to the following boxes containing additional guidance regarding **AGRICULTURAL USE REQUIREMENTS** and **NON-AGRICULTURAL USE REQUIREMENTS**. Consult the respective sections for site-specific Use Restrictions.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms (sod farms included), forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable).

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

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

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
- 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

Asenra may be applied to control the insect pests that infest turfgrass and ornamental plants listed on the label.

Asenra may be applied to the following:

Uses Subject to Worker Protection Standards

- 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.

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Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

Uses NOT Subject to Worker Protection Standards

- 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)

Asenra 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 **Asenra** is tank-mixed with an insect control product that negatively impacts beneficial arthropods, the full benefit of **Asenra** to the IPM program may not be realized.

Resistance Management

For resistance management, **Asenra** contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to **Asenra** 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 **Asenra** 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):
  - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - o Mixtures with components having the same IRAC mode of action classifications are not recommended for insect resistance management.
  - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, 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 Atticus, LLC at 984-465-4800.

Atticus, LLC 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 Atticus, 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 38.3 fluid ounces (equivalent to 0.5 lb. of active ingredient) of **Asenra** per acre per year to plants produced or grown outdoors or to plants produced or grown indoors and outdoors in containers.
- **DO NOT** let people and pets enter the treated area until treatment has dried.

For New York State Only:

The following restrictions are required to permit use of **Asenra** in the State of New York:

- **Golf courses:**
  - o **Greens and Tee Boxes: DO NOT** apply this product within 25 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
  - o **Fairways: DO NOT** apply this product within 50 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- **All Other Use Sites: DO NOT** apply this product within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- Do not apply more than 0.2 lb. chlorantraniliprole per acre per calendar year for agricultural uses.
- Not Registered for Sale, Sale Into, Distribution and/or Use in Nassau, Suffolk, Kings, Queens Counties of New York State unless permitted under FIFRA Section 24(c) Special Local Need Registration.

APPLICATION DIRECTIONS

Methods of Application

Apply **Asenra** 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 handgun 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. **Asenra** is a systemic product that is translocated upward into the plant from root uptake when applied to the soil. To be effective, apply **Asenra** 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

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Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

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

Asenra 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** in the **COMMERCIAL ORNAMENTAL PLANT NURSERIES, GREENHOUSES AND SOD FARMS** and **GOLF COURSES, LAWNS AND LANDSCAPES, AND INTERIOR PLANTSCAPES** sections.

Mixing Directions

Asenra alone

1. Fill sprayer tank 1/4 to 1/2 full of water.
2. Always shake container well before use.
3. Add the required amount of **Asenra** 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-Mix Precautions

Asenra 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.

Tank-Mix Compatibility

The physical compatibility of **Asenra** 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.

Asenra in Tank Mixtures

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. **Asenra** 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 Asenra to control insect pests on: ornamental plants grown in commercial ornamental nurseries and greenhouses; and on turfgrass produced on sod farms. Consult your local Atticus, LLC representative, Cooperative Extension Service specialist, or pest control advisor for regionally specific information regarding application timing.

Commercial Nurseries and Greenhouses

- Apply **Asenra** as a foliar, bark or soil treatment. See the **APPLICATION DIRECTIONS** section for methods of application and the tables for specific directions for use.
- 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 **Asenra** 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.

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Manufactured for:
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Cary, NC 27513

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	Pot and Bedding Plants
Evergreens, including Conifers	Non-Bearing Fruit and Nut Trees[1]	Shrubs
Flowering Plants	Ornamental Grasses	Succulents
Flowers Grown for Seed Production	Ornamental Trees	Vines (Non-bearing)[1]
	Palms	

Target Pests	Product Dilution (Fl. Oz./100 Gal.)	Application Timing	Use Directions
Leaf-Feeding Caterpillars, Such as Bagworms and Tussock Moth, Caterpillars, including Whitemarked Tussock Moth	2.0 - 16.0 (0.026 - 0.208 lb. ai)	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 **Asenra** 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 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 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:**
  - o For indoor ornamental production and outdoor containerized production, do not apply more than 38.3 fl. oz. of **Asenra** per acre (0.88 fl. oz./1,000 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.
  - o For outdoor, field-grown production, **do not** apply more than 38.3 fl. oz. of **Asenra** 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 hr.

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[1]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.

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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 Bulb, Corm and Tuber Crops (such as Tulips, Calla Lilies) Evergreens, including Conifers Flowering Plants Flowers Grown for Seed Production	Foliage Plants Ground Covers Non-Bearing Fruit and Nut Trees[1] Ornamental Grasses Ornamental Trees Palms	Perennial Plants Pot and Bedding Plants Shrubs Succulents Vines (Non-bearing)[1]	
Target Pests	**Product Use Rate**	**Application Timing**	**Use Directions**
White Grubs, including Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, May/June Beetles *(Phyllophaga* Spp.*)*, Northern Masked Chafer, Oriental Beetle, and Southern Masked Chafer	8 - 16 fl. oz. per acre (0.104 - 0.208 lb. ai per acre) 0.18 - 0.37 fl. oz. per 1,000 sq. ft.	Apply immediately prior to egg hatch. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.	Apply using 1 - 2 pts. water or greater per sq. ft. of soil surface. Irrigate immediately after application or allow rainfall to move the product into the soil.

USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate: Do not** apply more than 38.3 fl. oz. of **Asenra** 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 hr.

[1]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.

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Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

Systemic Soil Treatments

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[1] Ornamental Trees		Palms Shrubs
Target Pests	**Product Use Rate[2]**	**Application Timing**	**Use Directions**
Lace Bugs Aphids, including Apple Aphid	0.0625 - 0.25 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.	Application can be made by soil injection, soil drenches, and broadcast sprays. Apply **Asenra** 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 the **Soil Application Methods (Injection/ Drench)** section for additional information on soil injection and soil drench applications.
Birch Leafminer	0.25 fl. oz. (0.0033 lb. ai) per inch DBH of tree or per foot of height of shrub		

USE RESTRICTIONS

- **Maximum Single Application Rate:** Do not apply more than 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:**
  - o For indoor production and outdoor containerized production, **do not** apply more than 38.3 fl. oz. of **Asenra** per acre (0.88 fl. oz./1,000 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.
  - o For outdoor, field-grown production, **do not** apply more than 38.3 fl. oz. of **Asenra** 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 hr.

SPECIMEN

[1]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.

[2]Amount of **Asenra** 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 Asenra to be Applied Per Inch DBH[1]	**Diameter at Breast Height (DBH) of Tree[1]**					
	1 Inch	**2 Inches**	**3 Inches**	**4 Inches**	**5 Inches**	**6 Inches**
0.0625 fl. oz.	265	128	85	64	51	42
0.25 fl. oz.	64	32	21	16	12	10

[1]For trees with a DBH greater than 6 inches, do not apply more than 1.5 fl. oz. per plant. Dilute the required amount of **Asenra** in a volume of water that ensures coverage (see the **APPLICATION DIRECTIONS** section for additional application instructions).

Maximum Number of Shrubs that Can be Treated per Acre at the Listed Rates						
Amount of Asenra to be Applied Per Foot Height of Shrub[1]	**Height of Shrub[1]**					
	1 Foot	**2 Feet**	**3 Feet**	**4 Feet**	**5 Feet**	**6 Feet**
0.0625 fl. oz.	265	128	85	64	51	42
0.25 fl. oz.	64	32	21	16	12	10

[1]For shrubs with a height greater than 6 feet, do not apply more than 1.5 fl. oz. per plant. Dilute the required amount of **Asenra** in a volume of water that ensures coverage (see the **APPLICATION DIRECTIONS** section for additional application instructions).

Manufactured for:
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Cary, NC 27513

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[1] Ornamental Trees		Palms Shrubs
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
Clearwing Moth Borer Larvae, including Peachtree Borer	4.0 - 32.0 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.	Apply **Asenra** 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 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate: Do not** apply more than 38.3 fl. oz. of **Asenra** 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 hr.

[1]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.

SPECIMEN

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Atticus, LLC
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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[1] Ornamental Trees	Palms Shrubs	
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
White Grubs, including Asiatic Garden Beetle European Chafer Green June Beetle Japanese Beetle May/June Beetles *(Phyllophaga* Spp.*)* Northern Masked Chafer Oriental Beetle Southern Masked Chafer	8.0 - 16.0 fl. oz. per 100 gallons (0.104 - 0.208 lb. ai 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 the solution to wet the entire container without leaching.
Lace Bugs Aphids, including Apple Aphid	8.0 - 32.0 fl. oz. per 100 gallons (0.104 - 0.416 lb. ai per 100 gallons)	To control aboveground 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.	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 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate:**
  - For indoor production, **do not** apply more than 38.3 fl. oz. of **Asenra** per acre (0.88 fl. oz./1,000 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 38.3 fl. oz. of **Asenra** 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 hr.

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[1]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.

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Production of Turfgrass Sod on Commercial Sod Farms

- For maximum residual control or heavy pest pressure, apply up to 20 fl. oz. per acre to control any of the pests listed in the **Broadcast Applications** table.
- 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 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 (Fl. Oz./Acre)**	**Application Information**
Annual Bluegrass Weevil	12.0 - 20.0 (0.157 - 0.26 lb. ai)	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	8.0 - 20.0 (0.104 - 0.26 lb. ai)	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)	8.0 - 16.0 (0.104 - 0.208 lb. ai)	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (Two-Lined)	12.0 - 20.0 (0.157 - 0.26 lb. ai)	Apply in spring or summer.
Turf Caterpillars, Including Armyworms, Cutworms, and Sod Webworms	2.0 - 4.0 (0.026 - 0.052 lb. ai)	Apply preventatively or after caterpillars have been observed. To ensure best control, delay watering (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 Ataenius, European Chafer, Green June Beetle, Japanese Beetle, May/June Beetles *(Phyllophaga* Spp.*)*, Northern Masked Chafer, Oriental Beetle and Southern Masked Chafer	8.0 - 16.0 (0.104 - 0.208 lb. ai)	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. Irrigate turf immediately after application or allow rainfall to move the product into the soil. 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.
Suppression: Chinch Bugs	8.0 - 20.0 (0.104 - 0.26 lb. ai)	Apply before eggs hatch.

USE RESTRICTIONS

- **Maximum Single Application Rate: Do not** apply more than 20 fl. oz. of **Asenra** per acre (0.46 fl. oz./1,000 sq. ft.)
- **Maximum Annual Application Rate:** Do not apply more than 38.3 fl. oz. of **Asenra** per acre per calendar year (0.5 lb. ai per acre per calendar year of chlorantraniliprole-containing products).
- **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 hr.

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GOLF COURSES, LAWNS AND LANDSCAPES, AND INTERIOR PLANTSCAPES

Apply **Asenra** to control listed insect pests of 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

Apply **Asenra** to control listed insect pests of 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.

- For maximum residual control or heavy pest pressure, apply at rates up to 20 fl. oz. per acre to control any of the pests listed in the **Broadcast Applications** table.
- 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 the **Broadcast Application Dilution Chart** and the **Soil Application Methods (Injection/Drench)** section 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	12 - 20 fl. oz. per acre (0.157 - 0.26 lb. ai per acre) 0.28 - 0.46 fl. oz. per 1,000 sq. ft.	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	8 - 20 fl. oz. per acre (0.104 - 0.26 lb. ai per acre) 0.18 - 0.46 fl. oz. per 1,000 sq. ft.	Apply when overwintered adult billbugs are observed 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)	8 - 16 fl. oz. per acre (0.104 - 0.208 lb. ai per acre) 0.18 - 0.37 fl. oz. per 1,000 sq. ft.	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (Two-Lined)	12 - 20 fl. oz. per acre (0.157 - 0.26 lb. ai per acre) 0.28 - 0.46 fl. oz. per 1,000 sq. ft.	Apply in spring or summer.
Turf Caterpillars, including Armyworms, Cutworms, and Sod Webworms	2 - 4 fl. oz. per acre (0.026 - 0.052 lb. ai per acre) 0.05 - 0.09 fl. oz. per 1,000 sq. ft.	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 Ataenius, European Chafer, Green June Beetle, Japanese Beetle, May/June Beetles *(Phyllophaga* spp.*)*, Northern Masked Chafer, Oriental Beetle, and Southern Masked Chafer	8 - 16 fl. oz. per acre (0.104 - 0.208 lb. ai per acre) 0.18 - 0.37 fl. oz. per 1,000 sq. ft.	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. 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. Irrigate turf immediately after application or allow rainfall to move the product into the soil.

(continued)

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Broadcast Applications *(continued)*

Turfgrass in golf courses, lawns on residential or commercial properties, and other recreational areas		
Target Pests	**Product Use Rate**	**Application Information**
Suppression: Chinch Bugs	8 - 20 fl. oz. per acre (0.104 - 0.26 lb. ai per acre) 0.18 - 0.46 fl. oz. per 1,000 sq. ft.	Apply before eggs hatch.
USE RESTRICTIONS		
• **Maximum Single Application Rate: Do not** apply more than 20 fl. oz. of **Asenra** per acre (0.46 fl. oz./1,000 sq. ft.) • **Maximum Annual Application Rate:** Do not apply more than 38.3 fl. oz. of **Asenra** per acre per calendar year (0.5 lb. ai per acre per calendar year of chlorantraniliprole-containing products). • **Do not** apply more than once every 7 days. • **Do not** enter or allow worker entry into treated areas during the restricted-entry interval of 4 hr.		

Ornamentals in Outdoor Landscapes and Interior Plantscapes

- Apply **Asenra** as a foliar, bark or soil treatment to control listed insect pests. See the tables below for specific Directions for Use.
- 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) Evergreens, including Conifers Flowering Plants Foliage Plants	Ground Covers Non-Bearing Fruit and Nut Trees[1] Ornamental Grasses Ornamental Trees Palms	Perennial Plants Shrubs Succulents Vines (Non-bearing)[1]	
Target Pests	**Product Dilution (Fl. Oz./100 Gal.)**	**Application Timing**	**Application Information**
Leaf-Feeding Caterpillars, Such as Bagworms, and Tussock Moth Caterpillars, including Whitemarked Tussock Moth	2.0 - 16.0 (0.026 - 0.208 lb. ai)	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.	Apply in a minimum spray volume of 1 gallon 1,000 sq. ft. as a full coverage foliar spray to control the target pests. If concentrate or mist-type spray equipment is used, apply an equivalent amount of product on the treated area as would be used in a dilute application. For hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader/sticker is recommended.
USE RESTRICTIONS			
• **Maximum Single Application Rate: Do not** apply more than 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.). • **Maximum Annual Application Rate: Do not** apply more than 38.3 fl. oz. of **Asenra** per acre per calendar year (0.5 lb. ai per acre per calendar year of any chlorantraniliprole-containing products). • **Do not** apply more than once every 7 days. • **Do not** enter or allow others to enter the treated areas until sprays have dried.			

[1] 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.

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Soil Applications for White Grubs

Ornamentals in outdoor landscapes and interior plantscapes		
Bulb, Corm and Tuber Crops (such as Tulips, Calla Lilies) Evergreens, including Conifers Flowering Plants Foliage Plants	Ground Covers Non-Bearing Fruit and Nut Trees[1] Ornamental Grasses Ornamental Trees Palms	Perennial Plants Shrubs Succulents Vines (Non-Bearing)[1]

Target Pests	Product Use Rate	Application Timing	Application Information
White Grubs, including Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, May/June Beetles *(Phyllophaga* spp.*)*, Northern Masked Chafer, Oriental Beetle, Southern Masked Chafer	8 - 16 fl. oz. per acre (0.104 - 0.208 lb. ai per acre) 0.18 - 0.37 fl. oz. per 1,000 sq. ft.	For best control, apply immediately prior to egg hatch. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.	Apply in sufficient water to uniformly cover the area being treated as a broadcast or banded treatment (a minimum of 2 gal. per 1,000 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 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate: Do not** apply more than 38.3 fl. oz. of **Asenra** per acre per calendar year (0.5 lb. ai per acre per calendar year of any chlorantraniliprole-containing products).
- **Do not** apply more than once every 7 days.
- **Do not** enter or allow others to enter the treated area until sprays have dried.

[1]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		
Evergreens, including Conifers Non-Bearing Fruit and Nut Trees[1]	Ornamental Trees Palms	Shrubs

Target Pests	Product Use Rate[2]	Application Timing	Use Directions
Lace Bugs Aphids, including Apple Aphid	0.0625 - 0.25 fl. oz. (0.00082 to 0.0033 lb. ai) per DBH of tree or 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. Make applications prior to pest infestation to achieve best control.	Application can be made by soil injection, soil drenches, and broadcast sprays. To be effective, **Asenra** 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.
Birch Leafminer	0.25 fl. oz. (0.0033 lb. ai) per DBH of tree or foot of height of shrub		

USE RESTRICTIONS

- **Maximum Single Application Rate: Do not** apply more than 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate: Do not** apply more than 38.3 fl. oz. of **Asenra** per acre per calendar year (0.5 lb. ai per acre per calendar year of any chlorantraniliprole-containing products).
- **Do not** apply more than once every 7 days.
- **Do not** enter or allow others to enter the treated area until sprays have dried.

[1]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.
[2]Amount of **Asenra** per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs.

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Maximum Number of Trees That Can Be Treated Per Acre at the Listed Rates						
Amount of Asenra to be Applied Per Inch DBH[1]	Diameter at Breast Height (DBH) of Tree[1]					
	1 Inch	2 Inches	3 Inches	4 Inches	5 Inches	6 Inches
0.0625 fl. oz.	256	128	85	64	51	42
0.25 fl. oz.	64	32	21	16	12	10

[1]For trees with a DBH greater than 6 inches, **do not** apply more than 1.5 fl. oz. of **Asenra** per plant. Dilute the required amount of **Asenra** in a volume of water that ensures adequate coverage (see the **APPLICATION DIRECTIONS** section for additional application instructions).

Maximum Number of Shrubs That Can Be Treated Per Acre at the Listed Rates						
Amount of Asenra to be Applied Per Foot Height of Shrub[1]	Height of Shrub[1]					
	1 Foot	2 Feet	3 Feet	4 Feet	5 Feet	6 Feet
0.0625 fl. oz.	256	128	85	64	51	42
0.25 fl. oz.	64	32	21	16	12	10

[1]For shrubs with a height greater than 6 feet, **do not** apply more than 1.5 fl. oz. of **Asenra** per plant. Dilute the required amount of **Asenra** in a volume of water that ensures coverage (see the **APPLICATION DIRECTIONS** section for additional application instructions).

Bark Applications

Ornamentals in outdoor landscapes and interior plantscapes			
Evergreens, including Conifers Non-Bearing Fruit and Nut Trees[1]	Ornamental Trees Palms	Shrubs	
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
Clearwing Moth Borer Larvae, including Peachtree Borer	4.0 - 32.0 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 information regarding application timing in your area.	Apply **Asenra** 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.

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USE RESTRICTIONS

- **Maximum Single Application Rate: Do not** apply more than 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate: Do not** apply more than 38.3 fl. oz. of **Asenra** per acre per calendar year (0.5 lb. ai per acre per calendar year of any chlorantraniliprole-containing products).
- **Do not** apply more than once every 7 days.
- **Do not** enter or allow others to enter the treated area until sprays have dried.

[1]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.

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Container Drench Applications

Ornamentals in outdoor landscapes and interior plantscapes			
Evergreens, including Conifers Foliage Plants	Non-Bearing Fruit and Nut Trees[1] Ornamental Trees	Palms Shrubs	
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
White Grubs, including Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, May/June Beetles *(Phyllophaga* spp.*)*, Northern Masked Chafer, Oriental Beetle, Southern Masked Chafer	8.0 - 16.0 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 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 soil surface. Apply a sufficient quantity of solution to drench the entire root zone.
Lace Bugs Aphids, including Apple Aphid	8.0 - 32.0 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. Make applications prior to pest infestation to achieve best control.	Mix required dose in water and uniformly apply the drench solution to the soil surface. Apply a sufficient quantity of solution to drench the entire root zone.

USE RESTRICTIONS

- **Maximum Single Application Rate: Do not** apply more than 16 fl. oz. of **Asenra** per acre (0.37 fl. oz./1,000 sq. ft.).
- **Maximum Annual Application Rate: Do not** apply more than 38.3 fl. oz. of **Asenra** per acre per calendar year (0.5 lb. ai per acre per calendar year of any chlorantraniliprole-containing products).
- **Do not** apply more than once every 7 days.
- **Do not** enter or allow others to enter the treated area until sprays have dried.

[1]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.

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ADDITIONAL RATE TABLES

Broadcast Application Dilution Chart

This table provides mixing instructions to produce 1, 5, 10, and 100 gallons of finished (diluted **Asenra**) spray solution on both a per acre and per 1,000 sq. ft. basis. For example, if you want to apply **Asenra** at the 4 fl. oz. per acre rate in a spray volume of 1 gallon of finished spray per 1,000 sq. ft., add 0.92 fl. oz. of **Asenra** to 10 gallons of water and mix thoroughly according to the mixing directions in the **APPLICATION DIRECTIONS** section (10 gallons of finished spray will cover 10,000 sq. ft.).

Note: 1 gallon per 1,000 sq. ft. = 44 gallons per acre.

Application Spray Volume (Gal./ 1,000 sq. ft.)	Product Application Rates			Fluid Ounces of Asenra Diluted to These Volumes of Finished Spray			
	Fl. oz./ Acre	Fl. oz./ 1,000 sq. ft.	Lb. ai/ Acre	1 Gallon	5 Gallons	10 Gallons	100 Gallons
1	1	0.02	0.013	0.02	0.12	0.23	2.3
	2	0.05	0.026	0.05	0.23	0.46	4.6
	4	0.09	0.052	0.09	0.46	0.92	9.2
	8	0.18	0.104	0.18	0.92	1.84	18.4
	16	0.37	0.208	0.37	1.84	3.67	36.7
	20	0.46	0.260	0.46	2.30	4.60	46.0

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Broadcast Application Dilution Chart *(continued)*

Application Spray Volume (Gal./ 1,000 sq. ft.)	Product Application Rates			Fluid Ounces of Asenra Diluted to These Volumes of Finished Spray			
	Fl. oz./ Acre	Fl. oz./ 1,000 sq. ft.	Lb. ai/ Acre	1 Gallon	5 Gallons	10 Gallons	100 Gallons
2	1	0.02	0.013	0.01	0.06	0.12	1.15
	2	0.05	0.026	0.02	0.12	0.23	2.30
	4	0.09	0.052	0.05	0.23	0.46	4.60
	8	0.18	0.104	0.09	0.46	0.92	9.20
	16	0.37	0.208	0.18	0.92	1.84	18.4
	20	0.46	0.260	0.23	1.15	2.30	23.0
3	1	0.02	0.013	0.01	0.04	0.08	0.77
	2	0.05	0.026	0.02	0.08	0.15	1.50
	4	0.09	0.052	0.03	0.15	0.30	3.00
	8	0.18	0.104	0.06	0.31	0.60	6.00
	16	0.37	0.208	0.12	0.62	1.23	12.3
	20	0.46	0.260	0.15	0.77	1.53	15.3
4	1	0.02	0.013	0.006	0.03	0.06	0.58
	2	0.05	0.026	0.01	0.06	0.12	1.15
	4	0.09	0.052	0.02	0.12	0.23	2.30
	8	0.18	0.104	0.05	0.23	0.46	4.60
	16	0.37	0.208	0.09	0.46	0.92	9.20
	20	0.46	0.260	0.12	0.58	1.15	11.5
5	1	0.02	0.013	0.005	0.02	0.05	0.46
	2	0.05	0.026	0.009	0.05	0.09	0.92
	4	0.09	0.052	0.018	0.09	0.18	1.84
	8	0.18	0.104	0.037	0.18	0.37	3.70
	16	0.37	0.208	0.074	0.37	0.74	7.40
	20	0.46	0.260	0.092	0.46	0.92	9.20
10	1	0.02	0.013	0.002	0.01	0.02	0.23
	2	0.05	0.026	0.005	0.02	0.05	0.46
	4	0.09	0.052	0.009	0.05	0.09	0.92
	8	0.18	0.104	0.018	0.09	0.18	1.84
	16	0.37	0.208	0.037	0.18	0.37	3.67
	20	0.46	0.260	0.046	0.23	0.46	4.60

- 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 **Asenra**.

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Soil Application Methods (Injection/Drench)

The calculations for soil injection/drench applications of **Asenra** 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 for Soil Application (Injection/Drench)** to determine the amount of time that is required to deliver the specified volume per injection/drench site (see the **Systemic Soil Treatments** section).
Step 4: Determine how much solution to mix.
Step 5: Refer to **Mixing Chart for Soil Application (Injection/Drench)** to determine the amount of **Asenra** 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 sec.	10.0 sec.	7.5 sec.	5.0 sec.	3.75 sec.	2.5 sec.
1 quart	30.0 sec.	20.0 sec.	15.0 sec.	10.0 sec.	7.5 sec.	5.0 sec.
2 quarts	1.0 min.	40.0 sec.	30.0 sec.	20.0 sec.	15.0 sec.	10.0 sec.
1 gallon	2.0 min.	1 min., 20 sec.	1.0 min.	40.0 sec.	30.0 sec.	20.0 sec.

- 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 **Asenra**.

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	0.0625	50	25	12.5	5	0.5
	0.25	200	100	50	20	2
1 quart	0.0625	25	12.5	6.25	2.5	0.25
	0.25	100	50	25	10	1
2 quarts	0.0625	12.5	6.25	3.125	1.25	0.125
	0.25	50	25	12.5	5	0.5
1 gallon	0.0625	6.25	3.125	1.56	0.625	0.0625
	0.25	25	12.5	6.25	2.5	0.25

- 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 **Asenra**.

*Amount of **Asenra** per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs.

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STORAGE AND DISPOSAL

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

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

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

CONTAINER HANDLING:

For plastic containers ≤ 5 gallons: Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

For plastic containers > 5 gallons: Nonrefillable container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

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

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

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Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513