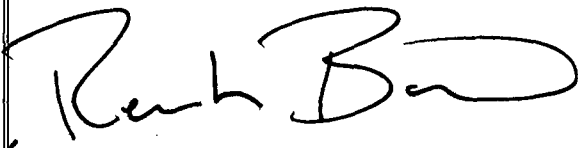


100-1422

2/7/2014

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 U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460	EPA Reg. Number: 100-1422	Date of Issuance: FEB - 7 2014
	Term of Issuance: Unconditional	
	Name of Pesticide Product: A16901B Ornamental Insecticide	
NOTICE OF PESTICIDE: ☒ Registration ☐ Reregistration (under FIFRA, as amended)		
Name and Address of Registrant (include ZIP Code): John Abbott Syngenta Crop Protection, LLC PO Box 18300 Greensboro, NC 27419		
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.		
On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This product is unconditionally registered in accordance with FIFRA section 3(c)(5). You must: 1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data. 2. Make the following label changes before you release the product for shipment: • Revise the EPA Registration Number to read, "EPA Reg. No 100-1422."		
Signature of Approving Official:  for Meredith Laws, Chief Insecticide-Rodenticide Branch, Registration Division (7505P)		Date: 02/07/2014

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A copy of the label stamped "accepted with comments" is enclosed for your records. Please also note that the record for this product currently contains the following Confidential Statements of Formula (CSFs):

- Basic CSF, dated 7/1/2013
- Alternate #1 CSF, dated 7/1/2013
- Alternate #2 CSF, dated 7/1/2013
- Alternate #3 CSF, dated 7/1/2013
- Alternate #4 CSF, dated 7/1/2013

If you have any questions, please contact Tom Harris at 703-308-9423 or harris.thomas@epa.gov.

Meredith Laws, Chief
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

3/26

Sale, use, and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

A16901B Ornamental

GROUP 4A 28 INSECTICIDE

Insecticide

For foliar and systemic control of listed insect pests in ornamental plants, fruit and nut trees (non-bearing), forest seedlings (liner production and field application) and listed vegetables grown for transplant.

Active Ingredient:

Thiamethoxam ¹	20.0%
Cytraniliprole ²	20.0%
Other Ingredients:	60.0%
Total:	100.0%

¹CAS No. 153719-23-4

²CAS No. 736994-63-1

A16901B Ornamental is a water-dispersible granule that contains 3.2 ounces of active ingredient of thiamethoxam and 3.2 ounces of cytraniliprole per pound of formulated product.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use in booklet[on bag].

EPA Reg. No. 100-RUEE

EPA Est. [placeholder]

SCP A16901B Ornamental DRAFT NEW PRODUCT - F

[Net contents placeholder]

Net Weight

[Refillable/Non-refillable] contents

000100-0RUEE.201200606F.A16901BOrnamental

ACCEPTED
With COMMENTS
In EPA Letter Dated:
FEB - 7 2014

Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No:

100 - 1422

4/
26

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the 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 for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material – Category A (e.g., natural rubber ≥14 mils)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS:

User Safety Recommendations

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.

Environmental Hazards

This pesticide is toxic to wildlife and highly toxic to aquatic invertebrates, oysters and shrimp. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds and may cause possible effects to pollinators from exposure to translocated residues in blooming crops. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging in/or adjacent to the treatment area.

- **Surface Water Advisory**

This product may impact surface water quality due to spray drift and 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 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 thiamethoxam water from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours. (See manual at the following internet address:
<http://www.wsi.nrcs.usda.gov/products/W2Q/pest/core4.html>).

- **Ground Water Advisory**

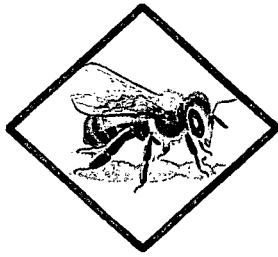
This product has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

- **Spray Drift Advisory**

Do not allow this product to drift.

6/26

PROTECTION OF POLLINATORS



APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:

<http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to:

www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

See individual use sites for specific pollinator protection application restrictions. If none exist, follow these directions for foliar applications to commercially-grown plants and ornamentals that are attractive to pollinators and non-agricultural use sites:

FOR FOOD/FEED CROPS AND COMMERCIALY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS



Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55°F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

FOR NON-AGRICULTURAL USES



- Do not apply A16901B Ornamental while bees are foraging. Do not apply A16901B Ornamental to plants that are flowering. Only apply after all flower petals have fallen off.

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

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

This labeling must be in the possession of the user at the time of application.

Sale, use, and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

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) and restricted-entry interval. 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 except for automatic fogger use in greenhouses (See "Automatic Cold Fogger Use in Greenhouses" below).**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material – Category A (e.g., natural rubber ≥ 14 mils).
- Shoes plus socks

Automatic Cold Fogger Use in Greenhouses

- If there is no ventilation, the REI is 24 hours.

Early Entry based upon Ventilation Criteria

- Early entry is permitted (with the PPE listed above) and respiratory protection consisting of a protection factor (PF) 10 respirator fitted with an organic-vapor removing filter) after four (4) hours to perform short duration activities such as opening windows or turning on fans or ventilation systems.
- Early entry is permitted (with the PPE listed above) after two (2) hours of ventilation using fans or other mechanical ventilation systems.
- Early entry is permitted (with the PPE listed above) after four (4) hours of ventilation using vents, windows or other passive ventilation.
- Early entry is permitted (with the PPE listed above) after ten (10) complete air exchanges have been completed.

After 12 hours, if the greenhouse has been ventilated according to the above criteria, no PPE is required to enter the treated area.

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

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

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

USE INFORMATION

A16901B Ornamental is a broad-spectrum insecticide that is effective when applied at label rates to the foliage, soil and growing media. A16901B Ornamental is active against listed sucking and chewing insect pests by contact and ingestion.

Plant Safety

A16901B Ornamental is safe on most ornamental plants. Determine the plant safety of A16901B Ornamental applied alone to a particular plant or with a particular tank mix, including adjuvants. Test A16901B Ornamental alone or the mixture to be applied on a small number of plants to determine any adverse plant safety effects before making large scale applications.

Among container-grown ornamentals and ornamentals grown in planting or liner beds, some plant species may be sensitive to fertilizers. Determine the plant safety of A16901B Ornamental applied with fertilizers. Test the mixture on a small number of plants to determine any adverse plant safety effects before making large scale applications..

Applications of A16901B Ornamental to yellow varieties of Honey Locust (*Gleditsia triacanthos*) may result in leaf chlorosis and leaf abscission. The effects are temporary. Test A16901B Ornamental alone or the mixture to be applied on a small number of the Honey Locust varieties you intend to treat and determine any adverse plant safety effects before making large scale applications..

Resistance Management

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

A16901B Ornamental contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry) and a Group 28 insecticide (cyantraniliprole, belonging to the diamide class of chemistry). Insect biotypes with acquired or inherent resistance to Group 4A or Group 28 insecticides may eventually dominate the insect population if Group 4A or Group 28 insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by A16901B Ornamental or other Group 4A or Group 28 insecticides.

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 company representative or agricultural advisor for the best alternative method of control for your area.

In order to maintain susceptibility to these classes of chemistry:

- Avoid using Group 4A and/or Group 28 insecticides exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply A16901B Ornamental or other Group 4A and/or Group 28 insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated in the Directions for Use) of the Group 4A and/or Group 28 insecticides. Do not exceed the maximum A16901B Ornamental allowed per growing season.
- Following a treatment window of Group 4A and/or Group 28 insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 4A and/or Group 28 insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to these classes of chemistry.
- If resistance is suspected, do not reapply A16901B Ornamental or other Group 4A or Group 28 insecticides.

Other Insect Resistance Management (IRM) practices include:

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field and greenhouse efficacy.
- Using tank-mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

For additional information on Insect Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org/>.

POLLINATOR PRECAUTIONS

- A16901B Ornamental is highly toxic to bees exposed to direct treatment on blooming crops or weeds and may cause possible effects to pollinators from exposure to translocated residues in blooming crops.
- Do not apply A16901B Ornamental or allow it to drift to blooming crops while bees are foraging in/or adjacent to the treatment area. This is especially critical if there are adjacent orchards that are blooming (Refer to **Spray Drift Precautions** for additional information).
- If bees are foraging in the ground cover and it contains any blooming plants or weeds, always remove flowers before making an application. This may be accomplished by mowing, disking, mulching, flailing, or applying a labeled herbicide.

12/
26

- Consult with your local cooperative extension service or state agency responsible for regulating pesticide use for additional pollinator safety practices.

MIXING PROCEDURES

Prepare only the amount of spray mixture that is needed for the immediate application. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation.

Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

A16901B Ornamental Applied Alone

Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the A16901B Ornamental to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the A16901B Ornamental has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Tank Mix Compatibility

A16901B Ornamental is compatible with most insecticide, fungicide, and foliar nutrients products. However, test the physical compatibility of A16901B Ornamental with tank-mix partners before use. To determine the physical compatibility of A16901B Ornamental with other products, use a jar test, as described below.

Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

A16901B Ornamental + Tank Mixtures

Add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. Add the tank mix partners in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) such as A16901B Ornamental, liquid flowables, liquids and 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 the mixture has been applied.

Note: When using A16901B Ornamental in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including A16901B Ornamental. 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.

When an adjuvant is to be used with this product, use an adjuvant that meets the standard of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program. A16901B Ornamental is compatible with most commonly used pesticides, crop oils, adjuvants, and nutritional sprays. However, since it is not possible to test all possible mixtures, the user should pre-test to assure the physical compatibility and lack of phytotoxic effect of any proposed mixtures with A16901B Ornamental.

If using A16901B Ornamental in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. Do not exceed any label dosage rate, and follow the most restrictive label precautions and limitations. Do not mix this product with any product, which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

APPLICATION PROCEDURES

Do not make ground applications within 25' of lakes, rivers, reservoirs, permanent streams, marshes, natural ponds, estuaries, or coastal areas. Do not cultivate within 25' of the aquatic area to allow growth of a vegetative filter strip.

Foliar Applications

Make foliar applications in an adequate water volume to achieve thorough and uniform coverage without excessive runoff (to drip). Use of an adjuvant applied with A16901B Ornamental may increase efficacy. Select an adjuvant that does not bind A16901B Ornamental to the leaf surface, limiting absorption into the foliage. A16901B Ornamental can be applied in a range of spray volumes (concentrate to dilute spray volumes), provided thorough and uniform coverage is obtained.

Handheld Application Equipment

Applications can be made through most types of low pressure handheld application equipment.

DO NOT apply through any type of handheld fogger equipment.

DO NOT apply with aerial equipment.

Automatic Cold Fogger Applications – Greenhouses

Applications can be made in greenhouses with automatic cold fogger equipment. Apply the same amount of A16901B Ornamental per unit area as would be applied in a dilute spray volume over the same area.

Do not apply through fogger equipment requiring workers to be present in the greenhouse during the fogger application.

Important: Read and follow the REI and PPE requirements for “**Automatic Cold Fogger Use in Greenhouses**” in the Worker Protection Standard **AGRICULTURAL USE REQUIREMENTS** box.

Soil or Soil-less Medium Applications

A16901B Ornamental is effective as a soil and systemic insecticide when applied to the soil using band, broadcast or drench applications. When applying A16901B Ornamental as a drench to plants in pots and containers, apply enough solution to sufficiently wet $\frac{1}{2}$ - $\frac{3}{4}$ of the root zone without allowing runoff out of the container. With irrigation or rainfall, move A16901B Ornamental into the root zone of plants or the location of soil-dwelling pests, preferably within 3 days of treatment and, optimally, within 24 hours. Excessive watering or heavy rainfall may reduce the effectiveness of A16901B Ornamental. Allow a minimum of 7 days after watering-in for maximum uptake of A16901B Ornamental by the plant's root system.

Do not apply to soils or growing media above field or pot capacity. Do not apply to waterlogged soil or growing media.

Application Timing

Begin foliar applications when labeled pests first appear or when economic thresholds have been reached.

For applications made to growing media (soil or soil-less media), A16901B Ornamental must move to the feeding site of the target pest, whether this is in the root zone or the above ground portion of the host plant. Therefore, control of pests from the systemic activity of A16901B Ornamental may be delayed for 1 or more weeks depending on plant size, rate of uptake from the soil, or rate of translocation within the plant, etc.

Systemic activity in large plants such as those in field nurseries may require several weeks for control of stem and foliar pests. Apply A16901B Ornamental preventatively to plants having low economic thresholds or are prone to infestation by listed insect pests.

Application through Irrigation Systems

Apply A16901B Ornamental only through micro-irrigation systems (for example, drip, trickle, spaghetti tubes, and micro-sprinklers), overhead irrigation, ebb and flood irrigation, or hand held or motorized calibrated irrigation equipment. Do not apply this product through any other type of irrigation equipment. Do not overwater for a minimum of 7 days after watering-in for maximum uptake of A16901B Ornamental by the plant's root system. See additional precautions regarding irrigation system application below.

Chemigation

Uniform Water Distribution and System Calibration: The irrigation system must provide uniform distribution of treated water. Plant injury, lack of effectiveness, or illegal pesticide residues in the plant may result from non-uniform distribution of treated water.

The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

Chemigation Monitoring: A person knowledgeable of the Chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Required System Safety Devices: The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or Venturi injector) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Instructions for Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or Venturi injector) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Ebb and Flow and Flood Floor Application

To determine the water volume uptake of A16901B Ornamental in ebb and flow and flood floor applications, bring a minimum of 10 plants up to a known field capacity and allow them to dry out for one to two days. Re-wet these plants to determine how much water on average each plant will absorb to bring it back to field capacity. Use the water volume absorbed per plant, multiply by the number of pots of the same size being treated, and add the minimum water volume to irrigate the area. This should minimize the return back to the storage tank. Re-use the returned volume with subsequent irrigation or nutrients on the same plants. Dilute A16901B Ornamental in a minimum of 100 gallons for ebb flow and flood floor application.

Spray Drift Precautions

As with all crop protection products, it is important to avoid off-target movement. Do not allow spray to drift onto adjacent land, crops, or aquatic areas. To avoid spray drift:

- Make applications when wind velocity favors on-target product deposition (approximately 3-10 mph). Do not apply when wind velocity exceeds 10 mph. Do not make applications when wind gusts approach 10 mph.
- Do not make applications when wind direction is toward the aquatic area to reduce the risk of exposure to sensitive aquatic areas.
- Do not make applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with increased height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift, and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage. Do not make applications more than 10 ft. above the crop canopy.

SPECIFIC USE DIRECTIONS

Foliar Applications

Ornamental plants, fruit and nut trees (non-bearing), and forest seedlings grown in greenhouses, lath and shade houses, containers, field nurseries and interiorscapes

Pests	Rate	Use Restrictions
Ants (excluding harvester, carpenter and Pharaoh ants) Aphids Beet Armyworm Cabbage Looper Cabbage Webworm Corn Earworm Diamondback Moth Fall Armyworm Flea Beetles Imported Cabbageworm Southern Armyworm Sugarbeet Armyworm Yellowstriped Armyworm	2.5-5.0 oz./100 gal. or 5-10.0 oz./A	• Make the first application when economic action levels for the target pest are reached. For crops without action levels, make the first application before pest populations cause significant damage to the host plant. Re-apply as needed, but no sooner than every 14 days. Apply higher use rates in rate range for longer control or high insect populations. For leaf gall forming insects, apply during egg laying of the generation being targeted.
Adelgids (including Hemlock Woolly Adelgid) Lace Bugs Leaf Beetles Leafhoppers Leafminers Leaf gall forming insects Mealybugs Midges Plant Bug Psyllids (including Asian Citrus Psyllid) Sawflies Soft Scales Thrips – foliar feeding Whiteflies	10.5 oz./100 gal. or 10.5 oz./A	For concentrated spray volumes, apply the same amount of product per unit area as would be applied with dilute spray volumes.

- Do not exceed 21 oz./A per crop or year.
- For specific information about developmental stages of the target pest, associated damage and action thresholds to properly time applications, consult with your State Cooperative Extension Service.

Applications to Soil or Other Growing Media

Ornamental plants, fruit and nut trees (non-bearing) and forest seedlings grown in greenhouses, lath and shade houses, containers, field nurseries and interiorscapes

Pests	Rate	Use Restrictions
Aphids Fungus gnats Leaf Beetles Leafminers Mealybugs Root Aphid Root Weevil larvae (including <i>Diaprepes abbreviatus</i>) Soft Scales Thrips – foliar feeding (suppression) Whiteflies	5-10.5 oz./100 gal. or 10.5 oz./A	Apply to the soil or growing media to help prevent pests in situations where tolerance of insects or damage is low. Allow a minimum of 1 week for smaller plants and at least 2 weeks for large plants (typically found in nurseries, plantations) to translocate A16901B Ornamental to feeding sites of the target pest. Wait at least 14 days before applying a second application, if needed. Apply as a broadcast, band or drench.
Larvae (Grubs) of: <i>Aphodius</i> spp. Asiatic garden beetle Billbugs European chafer Green June beetle Japanese beetle May or June beetle Northern masked chafer Oriental beetle Scarab beetle Southern masked chafer	7.5-10.5 oz./100 gal.	Apply from adult flight through peak egg hatch of the targeted species. Apply as a drench treatment to containers and over the active root zone. For drench and chemigation applications made to containerized plant material, apply sufficient volume to moisten the media around the root zone without loss from the bottom of the container.
Fire Ants	1.3-3.8 oz./10 gal.	Individual Mound Treatment: For small mounds (<6 inch in diameter) apply 1 gal. of water per mound and for larger mounds apply 2-3 gal. of dilute solution per mound for optimum control. Direct the application to the center of the mound, including a 6-inch diameter circle.

- For broadcast applications, typical water volume is 1.5 - 5 gals./1,000 sq. ft.
- Do not exceed 21 oz./A per crop or year.
- Do not over-water for a minimum of 7 days after watering in for maximum uptake of A16901B Ornamental by the plant root system.
- For specific information about developmental stages of the target pest, associated damage, and action thresholds to properly time applications, consult with your State Cooperative Extension Service.

20/26

Banded Application

For banded applications, apply uniformly over the row or active root zone in a minimum water volume of 5 gallons per 1,000 linear feet. For optimum activity, rainfall or irrigation is necessary within 24 hours of application.

A16901B Ornamental rate (ounces of product) per 1,000 linear feet of row for specific row spacing.

Rate/A	Lb ai./A	Row Spacing										
		3 ft.	4 ft.	4.5 ft.	5 ft.	6 ft.	7 ft.	8 ft.	9 ft.	10 ft.	11 ft.	12 ft.
10.5 oz./A	0.26	0.7	1.0	1.1	1.2	1.4	1.7	1.9	2.2	2.41	2.66	2.9

Drench Application

When applying A16901B Ornamental as a drench, apply enough solution to sufficiently wet $\frac{1}{2}$ - $\frac{3}{4}$ of the root zone without allowing runoff out of the container. Use the following chart as a guideline for the number of pots that this volume will treat based on the size of the pot and drench volume. Use higher drench volumes for woody ornamentals, containers having multiple plants, and those crops with longer production times or needing longer protection.

Note: Drench volumes will vary based on the porosity of the growing media. Conduct your own tests to determine correct drench volumes for your growing media.

Pot Size	Suggested Drench Volume fl. oz./pot	Pots Treated per 100 gal.
4 inch standard	2-3	6,400 - 4,267
6 inch standard	3-4	4,267 - 3,200
8 inch standard	5-10	2,560 - 1,280
10 inch standard	12.5 - 25	1,024 - 512

Foliar Application to Vegetable Plants Grown for Re-sale to Consumers

For tomatoes, peppers, eggplant, and cucurbit plants grown for re-sale to consumers

Crop	Pests	Rate	Use Restrictions
Fruiting Vegetables Eggplant Ground-cherry Pepino Peppers (bell, chili, cooking, pimento, and sweet) Tomatillo Tomato	Aphids Beet Armyworm Colorado Potato Beetle Fall Armyworm Flea Beetles Hornworm species Leafhoppers Leafminers Loopers Potato Psyllid Southern Armyworm Thrips Tomato Fruitworm Tomato Pinworm Whiteflies Yellowstriped Armyworm	5.0–7.0 oz./A or 0.6–0.8 oz./ 5,000 sq. ft.	Apply before pests reach damaging levels. Apply higher rates within the listed rate range for heavy infestations.

- Do not exceed 14.0 oz./A (0.8 oz./5,000 sq. ft.) of A16901B Ornamental per crop.
- Allow at least 5 days between applications.

Cucurbit Vegetables Chayote Chinese waxgourd Citron melon Cucumber Edible gourd Gherkin <i>Momordica</i> species Muskmelon Pumpkin Squash: summer and winter Watermelon	Aphids Cabbage Looper Corn Earworm Cucumber Beetles Flea Beetles Leafminers Melonworm Pickleworm Rindworm species complex Tobacco Budworm Whiteflies	5.0–7.0 oz./A or 0.6–0.8 oz./ 5,000 sq. ft.	Apply before pests reach damaging levels. Apply higher rates within the listed rate range for heavy infestations.
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- Do not exceed 14 oz./A (1.26 oz./5,000 sq. ft.) of A16901B Ornamental per crop.
- Allow at least 5 days between applications.

Brassica (Cole) Leafy Vegetables	Alfalfa Looper	5.0–7.0 oz./A	Apply before pests reach damaging levels. Apply higher rates within the listed rate range for heavy infestations.
Head & Stem	Aphids	or	
Brassica	Beet Armyworm	0.6–0.8 oz./ 5,000 sq. ft.	
Broccoli, Broccoli	Cabbage Looper		
Chinese (gai lon)	Cabbage Webworm		
Brussels sprouts	Corn Earworm		
Cabbage	Diamondback Moth		
Cabbage, Chinese	Fall Armyworm		
(napa)	Flea Beetles		
Cabbage, Chinese	Imported		
mustard (gai choy)	Cabbageworm		
Cauliflower	Leafminers (larvae)		
Cavalo broccolo	Sugarbeet		
Kohlrabi	Armyworm		
Leafy Brassica	Thrips (Foliage Feeding)		
Greens	Whiteflies		
Broccoli raab (rapini)	Yellowstriped		
Cabbage, Chinese	Armyworm		
(bok choy)			
Collards			
Kale			
Mizuna			
Mustard greens			
Mustard spinach			
Rape greens			

- Do not exceed 14 oz./A (1.26 oz./5,000 sq. ft.) of A16901B Ornamental per crop.
- Allow at least 5 days between applications.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place.

Pesticide Disposal

Pesticide wastes may be toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Container Handling

Non-refillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

[Product name], the ALLIANCE FRAME, the SYNGENTA Logo, and the PURPOSE ICON are Trademarks of a Syngenta Group Company

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For non-emergency (e.g., current product information) call
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

(Non-detachable Base Label)

Sale, use, and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

A16901B Ornamental

GROUP	4A 28	INSECTICIDE
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Insecticide

For foliar and systemic control of listed insect pests in ornamental plants, fruit and nut trees (non-bearing), forest seedlings (liner production and field application) and listed vegetables grown for transplant.

Active Ingredient:

Thiamethoxam ¹	20.0%
Cyantraniliprole ²	20.0%

Other Ingredients:	60.0%
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Total:	100.0%
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¹CAS No. 153719-23-4

²CAS No. 736994-63-1

A16901B Ornamental is a water-dispersible granule and contains that contains 3.2 ounces of active ingredient of thiamethoxam and 3.2 ounces of cyantraniliprole per pound of formulated product

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-RUEE

EPA Est. [placeholder]

[Net contents placeholder]

Net Weight

[Refillable/Non-refillable] container

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. . Wash thoroughly with soap and water after handling, and before drinking, eating, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt, long pants, socks, shoes, and chemical-resistant gloves (such as natural rubber, Selection Category A).

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the 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 for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372	

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Refer to Environmental Hazards and Physical or Chemical Hazards and Chemigation sections in booklet.

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Syngenta Crop Protection, LLC

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