



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

88847-7

Date of Issuance:

2/29/2024

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Basin®

Name and Address of Registrant (include ZIP Code):

Vestaron Corporation
4025 Stirrup Creek Drive, Suite 400
Durham, NC 27703

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention 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 (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her 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 the 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) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Digitally signed by
ALAN REYNOLDS
Date: 2024.02.29
10:23:04 -05'00'

for

Michael Mendelsohn, Branch Chief
Emerging Technologies Branch
Biopesticides and Pollution Prevention Division (7511M)
Office of Pesticide Programs

Date:

2/29/2024

2. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 88847-7."
3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.


Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to EPA's Office of Enforcement and Compliance Assurance.

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

- Basic CSF dated 05/22/2023
- Alternate CSF A dated 03/12/2021
- Alternate CSF B dated 03/12/2021

If you have any questions, please contact Stephanie Kelly via email at kelly.stephanie@epa.gov.

Sincerely,

 Digitally signed by
ALAN REYNOLDS
Date: 2024.02.29
10:23:38 -05'00' for

Michael Mendelsohn, Branch Chief
Emerging Technologies Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

Enclosure

MASTER LABEL - containing:

Sublabel A, BASIN®-T: Greenhouse

Sublabel B, BASIN® Flex: Greenhouse in Tank Mixes with Bt

ACCEPTED

02/29/2024

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 88847-7

GROUP UNP INSECTICIDE

BASIN®

**In Water Soluble Packets
Biological Insecticide/Miticide**

Active Ingredient:

U1-AGTX-Ta1b-QA.....8.5%

Other Ingredients91.5%

Total100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCION**

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

See Inside Booklet for Additional Precautionary Statements and Directions for Use

FIRST AID

If 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 eye.
- Call a poison control center or doctor for treatment advice.

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.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-535-5053 for emergency medical treatment information and chemical emergency assistance.

EPA Reg. No.: 88847-XXXX
Net Contents: _____ [lbs][2.5 lbs]
Made in USA

EPA Est. No.: XXXXX-XX-XXX
Lot No: XXXX

Manufactured for:
Vestaron Corporation
4025 Stirrup Creek Drive, Suite 400
Durham, NC 27703

Sublabel A:
Greenhouse and Indoor
Nurseries

BASIN®-T

GROUP

UNP

INSECTICIDE

**In Water Soluble Packets
Biological Insecticide/Miticide**

Active Ingredient:

U1-AGTX-Ta1b-QA 8.5%

Other Ingredients: 91.5%

Total: 100.0%

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(If you do not understand the label, find someone to explain it to you in detail.)

See Inside Booklet for Additional Precautionary Statements, Directions for Use and Storage and Disposal.

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Produced for:

Vestaron Corporation
4025 Stirrup Creek Drive, Suite 400
Durham, NC 27703
Made in USA

EPA Reg. No.: 88847-XXXX

EPA Est. No.: Printed on Container

Lot No.: Printed on Container

NET CONTENTS: 10 x 4 oz. packets (2.5 lbs.)

Approval Date: x/x/xxxx

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals - CAUTION. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wear protective eyewear and waterproof gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- protective eyewear
- Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N*, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with an HE filter. (Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.)

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

USER SAFETY RECOMMENDATIONS

Users should:

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

Environmental Hazards: For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. 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.

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.

Do not enter or allow workers to enter the treated greenhouse or enclosed space until the ventilation requirements in 40 CFR 170.405(b)(3) have been met and the Restricted Entry Interval (REI) of 12 hours has expired. Until then, only handlers wearing the appropriate personal protective equipment can enter the greenhouse or enclosed space.

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
- waterproof gloves
- shoes plus socks
- protective eyewear

PRODUCT INFORMATION

BASIN-T may only be used to treat plants grown indoors or in greenhouses. **BASIN-T** is a biological insecticide and miticide that contains the peptide active ingredient U1-AGTX-Ta1b-QA. It is for use on ornamental plants and edible crops as an effective means for controlling pests such as aphids, broad mites, spider mites, thrips and whiteflies, as well as psyllids and spotted-wing drosophila. **BASIN-T** is a contact insecticide that functions primarily as a central nervous system inhibitor of target pests infesting labeled crops. **BASIN-T** is mixed with water and applied as a foliar spray with ground equipment equipped with finenozzles to minimize droplet size.

GENERAL USE INSTRUCTIONS

The active ingredient in **BASIN-T** largely acts through contact. **BASIN-T** has no systemic activity, therefore thorough coverage of infested plant parts is necessary for best performance. Small droplet size will improve coverage and penetration of the crop canopy. Use of a non-ionic or blended organosilicone surfactant will also improve coverage. Applications may be made by dip/immersion or ground. Applications may be made by dip/immersion or by ground only to plants grown indoors or in greenhouses.

BASIN-T is effective on immature and some adult stages of the listed insect and mite pests. Earlier or younger developmental stages should be considered more susceptible. Careful scouting to detect infestations early is important for optimal results. Repeat applications at 3 -10-day intervals (or at intervals necessary to maintain control) depending upon plant growth rate, pest activity and other factors.

BASIN-T may be applied up to and including the day of harvest (Pre-harvest interval = 0 days).

BASIN-T has been evaluated for phytotoxicity on a variety of edible and non-edible crops under various normal growing conditions. It is not feasible, however, to test all crop varieties in all mixtures and combinations. Therefore, prior to treating the entire crop, test a small portion of the crop for sensitivity.

Mixing directions:

Do not add **BASIN-T** to the mix tank before introducing the desired amount of water. Add water to the mix tank. Start the mechanical or hydraulic agitation to provide moderate circulation before adding **BASIN-T**. Add the number of **BASIN-T** packets according to the application instructions to the tank and continue circulation. **Maintain circulation while loading and spraying.** Do not store tank mixes overnight. Do not cut or open the packets.

Tank mixing and compatibility:

Do not combine **BASIN-T** in the spray tank with other pesticides, surfactants, adjuvants or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective, and non-injurious under your use conditions. Follow the most restrictive of the labeling limitations and precautions of all products used in mixtures.

To ensure compatibility of tank-mix combinations, evaluate prior to use. Use a jar test to determine the physical compatibility of this product with other products. Add the proportionate amounts of the products to one quart of water with agitation. Add dry formulations first, then flowables, then emulsifiable concentrates. After thoroughly mixing, let this mixture stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

When a surfactant is used, add it to the diluted spray solution last. Use the recommended dosage advised in the respective surfactant label to the diluted **BASIN-T** spray solution and mix thoroughly by agitation to prepare the spray solution for application.

Use Restrictions:

For indoor use only. Do not make more than 5 applications of **BASIN-T** per season or crop cycle, up to a maximum of 12.5 lb. per acre (43,560 sq. ft.).

Integrated Pest Management (IPM):

BASIN-T is an important tool for sound pest management whenever pesticide use is necessary. Because the active ingredient has a novel mode of action, **BASIN-T** provides a new control method for the labeled pests. It effectively targets immature and adult life stages. Based on sound scouting practices, use **BASIN-T** preventively to avoid infestations, as a spot spray to suppress localized infestations, or as a blanket spray to prevent outbreaks. Applying **BASIN-T** in rotation with other insecticides as part of a resistance management program will reduce inputs of conventional insecticides and may also delay development of pesticide resistance. Based on a variety of evaluations, **BASIN-T** is not disruptive to the benefits of biological control agents or other non-target species. It is not feasible, however, to test all species of beneficials in all situations. Therefore, consult with a pest

control advisor, extension agent or the manufacturer before treating an entire crop where beneficial insects serve as part of an IPM program. Consult local agricultural authorities for IPM strategies that are specific to your crop and location.

Resistance Management:

BASIN-T contains the biological peptide U1-AGTX-Ta1b-QA, which is not known to be cross-resistant to any other class of insecticide. Repeated use of any mode of action, however, has the potential for pests to develop insecticide resistance. To delay development of resistance, the following practices are recommended:

- Carefully follow the specific guidelines within the use directions.
- Avoid using the same active ingredient or mode of action on consecutive generations of insects. Multiple applications to reduce a single generation, however, are acceptable. Treat the next generation with a different mode of action.
- Avoid using less than labeled rates of any insecticide when applied alone.
- Target the insect early in development to achieve the greatest benefit from the insecticide.
- Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.

APPLICATION INSTRUCTIONS

4 PACKETS	16 oz rate (1 lb.)
8 PACKETS	32 oz rate (2 lb.)

GREENHOUSE AND INDOOR NURSERY USE DIRECTIONS

BASIN-T may be used in greenhouses (including high tunnels, lath and shadehouses, interiorscapes and hoop houses) and nurseries. Make applications with high pressure, low- volume or ultra-low-volume spraying and fogging equipment. **BASIN-T** is a contact insecticide so direct contact with the pest is essential for optimum performance. Better coverage and penetration of crop canopy is usually achieved when smaller spray droplets are applied. Use fine or very fine nozzles and preferably apply high pressure if hydraulic sprayer is used. Use of a non-ionic or blended organosilicone surfactant to improve coverage may increase performance.

For high-volume sprayers, mix 1-2.5 lbs. of **BASIN-T** with water to a total volume of 100 gallons. Apply as a foliar spray in enough volume per acre to achieve full coverage of the target crop (50 -100 gallons of this spray solution are generally sufficient to treat 1 acre or 43,560 sq. ft.). For low-volume and ultra-low- volume equipment, apply 1-2.5 lbs. of **BASIN-T** per acre (43,560 sq. ft.). Follow the equipment manufacturer instructions carefully to determine the appropriate amount of water and/or carrier for area coverage. Repeat applications at 3-10-day intervals depending upon plant growth rate, pest activity and other factors.

DIPPING OR IMMERSION TREATMENTS INDOOR/GREENHOUSE USE ONLY

BASIN-T may be applied using a pre-plant dipping application to vegetative or hardwood unrooted cuttings and transplants for control of labeled pests. To prepare the dipping solution, thoroughly mix 2 lb. of **BASIN-T** with 10 gallons of water. If plant sensitivity is a concern, this concentration may be reduced to 2 lb. of **BASIN-T** with 20 gallons of water. Prior to treating the entire crop, test a small portion of the crop for sensitivity. Use caution when dipping geranium, petunia, and salvia cuttings because some cultivars may be sensitive.

For unrooted cuttings, place into the tank loose, or in a mesh bag or immersion tray with top. To maximize coverage, do not pack cuttings too tightly. Immerse the cuttings into the **BASIN-T** solution, and gently move the plants around for 5-10 seconds, or just long enough to completely wet all surfaces. Verify that there are no dry surface areas.

For bare-root transplants, hold by the roots and immerse in the **BASIN** solution. Gently move around for 5-10 seconds, or just long enough to completely wet all surfaces of the leaves and stems, but not the roots. Verify that there are no dry surface areas.

For plugs and liners, turn the tray upside down, when practical, and dip the plant tops (stems and foliage) into the **BASIN-T** solution. Gently move around for 5-10 seconds, or just long enough to wet all surfaces.

Once cuttings and transplants are removed from the dipping solution, plant into potting mix or soil in the usual manner. Allow treated plants to dry before misting or watering. Observe the following general guidelines:

- Clean and disinfect the dipping tank and equipment before a new dip solution is prepared.
- Prepare only as much dip solution as can be used in one day. Do not use dip solution for more than one day.
- Prior to treating a new crop, test a small number of plants for sensitivity. Immerse in dipping solution, plant into growing media, and observe over several days for plant damage. Do not use dipping if there is any visible damage to test plants.
- If plant pathogens are a concern, prepare a new dipping solution regularly.
- Submerge just long enough to wet all plant surfaces.
- Agitate dip solution throughout use.
- Do not immerse stressed or wilted cuttings or transplants.

USE BASIN®-T ON THE FOLLOWING CROPS: GREENHOUSE AND INDOOR NURSERY USES

Crop	Insect/Mite Pest
Greenhouse Vegetables: Vegetable, Root and Tuber (Group 1), such as: Beet, Carrot, Potato, Radish, Sugarbeet Vegetable, Bulb (Group 3), such as: Garlic, Leek, Onion (Green and Bulb) Vegetable, Leafy Except Brassica (Group 4), such as: Celery, Endive, Lettuce, Parsley, Spinach Vegetable, Brassica Leafy (Group 5), such as: Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Mustard Greens Vegetable, Legume (Group 6), such as: Bean, Lentil, Pea, Soybean Vegetable, Fruiting (Group 8), such as: Eggplant, Pepper, Tomato Vegetable, Cucurbit (Group 9), such as: Cucumber, Melon, Squash, Watermelon	Aphids, such as: Green Peach Aphid Plant-feeding Mites, such as: Broad Mite Lewis Mite Twospotted Spider Mite Spotted-wing Drosophila Thrips, such as: Onion Thrips Tobacco Thrips Western Flower Thrips Whiteflies, such as: Greenhouse Whitefly Sweetpotato Whitefly
Greenhouse/Indoor Nursery Flowers and Ornamental Plants, such as: Bedding Plants, Container Stock, Cut Flowers, Ornamental Flowers, Ornamental Plants	
Greenhouse Herbs and Mint, such as: Basil, Chive, Cilantro, Dill, Mint, Parsley, Rosemary, Sage, Thyme	
Greenhouse Fruit Fruit, Citrus (Group 10), such as: Grapefruit, Lemon, Lime, Orange Fruit, Stone (Group 12), such as: Cherry, Nectarine, Peach, Plum, Prune Berry (Group 13), such as: Blackberry, Blueberry, Grape, Raspberry, Strawberry	
Other Crops Grown Indoor/Greenhouse: Hemp and Tobacco	

STORAGE AND DISPOSAL

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

Pesticide Storage: Store unopened container at room temperature. Do not store product in an open/unsealed container. Discard any remaining product after use. Do not allow product to freeze.

Pesticide Disposal: Discard any remaining product after use on site, or send to a waste disposal facility or pesticide disposal program.

Container Handling [Outer plastic bag of water-soluble packets]: Nonrefillable container. DO NOT reuse or refill this container. Completely empty bag into application equipment, then offer for recycling or dispose of empty bag in a sanitary landfill or by incineration, or by other procedures allowed by state and local authorities, as long as WSP is unbroken.

[Fiber drums with liners]: Nonrefillable container. DO NOT reuse this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration, or by other procedures allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in a manner required by its liner. Do not burn, unless allowed by state and local ordinances.

[Plastic containers with liners]: Nonrefillable container. DO NOT reuse this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration, or by other procedures allowed by state and local authorities.

Clean promptly after emptying. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

[Supersack]: Nonrefillable container. DO NOT reuse or refill this container. Completely empty bag into application equipment; then dispose of empty bag in a sanitary landfill, or by other procedures approved by state and local authorities.

TERMS AND CONDITIONS OF USE

If the terms of the following WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES are not acceptable, return the unopened package at once to Vestaron Corporation. Otherwise, use of the product will constitute acceptance of the terms under WARRANTY DISCLAIMER, INHERENT RISKS OF USE and LIMITATION OF REMEDIES.

WARRANTY DISCLAIMER

TO THE EXTENT PERMITTED BY APPLICABLE LAW, VESTARON CORPORATION MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE CONCERNING USE OF THE PRODUCT.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of the product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use, storage, or product handling not in accordance with the accompanying label instructions, abnormal conditions, presence of other materials, or other factors, all of which are beyond the control of Vestaron Corporation. All such risks shall be assumed by the user.

LIMITATION OF REMEDIES

To the extent permitted by applicable law, the exclusive remedy for losses or damages resulting from the product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to replacement of the amount of product used. To the extent permitted by applicable law, Vestaron Corporation disclaims any liability for incidental, consequential, exemplary, special or indirect damages resulting from the use, storage or handling of the product.

The terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES cannot be varied by any written or verbal statements or agreements. No employee or other agent of Vestaron Corporation is authorized to vary or exceed the terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES in any manner. The terms may be varied only by agreement in writing signed by a duly authorized representative of Vestaron Corporation.

BASIN-T® is a registered trademark of Vestaron Corporation.

Vestaron name and logo are registered trademarks of Vestaron Corporation.

Reference Table for Greenhouse and Indoor Uses

1) Determine the Area

Area (Acre)	Area (Sq Ft)
1 Acre	43,560
0.5 Acre	21,780
0.115 Acre	5,000

2) Determine the Number of Water Soluble Packets

Weight in pounds	Weight in Ounces	Equivalence of Water Soluble Packets	Area (A)	Area (Sq Ft)
2.5 pounds	40 ounces	10 packets	1 Acre	43,560 Sq Ft
2 pounds	32 ounces	8 packets	0.8 Acre	34,848 Sq Ft
1 pound	16 ounces	4 packets	0.4 Acre	17,424 Sq Ft
0.5 pounds	8 ounces	2 packets	0.2 Acre	8,712 Sq Ft
0.25 pounds	4 ounces	1 packet	0.1 Acre	4,356 Sq Ft

3) Determine the spray volume for coverage. The spray volume required will vary with the size of plants, plant canopy and plant structure.

Packets (lbs) / 20 Gallons Concentrated Spray	Packets (lbs) / 100 Gallons Dilute Spray
10 (2.5 lbs.)	10 (2.5 lbs.)
4 (1 lbs.)	4 (1 lbs.)

Sublabel B:
Greenhouse Use and
Indoor Nurseries in Tank
Mixes with Bt



BASIN® Flex
In Water Soluble Packets
Biological Insecticide

GROUP

UNP

INSECTICIDE

Active Ingredient:

U1-AGTX-Ta1b-QA 8.5%
Other Ingredients: 91.5%
Total: 100.0%

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FIRST AID

If in eyes	<ul style="list-style-type: none">• 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 eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">• 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.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also contact 1-800-535-5053 for emergency medical treatment information and chemical emergency assistance.

Produced for:

Vestaron Corporation
4025 Stirrup Creek Drive, Suite 400
Durham, NC 27703

Made in USA

EPA Reg. No.: 88847-XXXX

EPA Est. No.: Printed on Container

Lot No.: Printed on Container

NET CONTENTS: 10 x 4 oz. packets (2.5 lbs.)

Approval Date: xx/xx/xxxx

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals - CAUTION. Causes moderate eyeirritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wear protective eyewear and waterproof gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- protective eyewear
- Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N*, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered airpurifying respirator with an HE filter. (Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.)

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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
- waterproof gloves
- shoes plus socks
- protective eyewear

PRODUCT INFORMATION

BASIN® Flex is a biological insecticide that contains the peptide active ingredient U1-AGTX-Ta1b-QA. It is for use on ornamental plants and edible crops. To be effective against the labeled lepidopteran and coleopteran pests, **BASIN® Flex** must be tank mixed with a low label rate of *Bacillus thuringiensis* (Bt) products or another product that improves the bioavailability of the active ingredient to the site of activity. When ingested at labeled rates along with Bt, **BASIN® Flex** functions as a central nervous system inhibitor. **BASIN® Flex** is mixed with water and applied as a foliar spray with ground equipment equipped for conventional insecticide spraying.

BASIN® Flex tank mixes with Bt products can be used only in greenhouses or indoor nurseries.

USE INSTRUCTIONS

In combination with Bt, the active ingredient in **BASIN® Flex** largely acts through ingestion. **BASIN® Flex** has no systemic activity, therefore thorough coverage of infested plant parts is necessary for best performance. For some crops, directed drop nozzles by a ground sprayer are required. **BASIN® Flex** in combination with Bt is only effective on the larval stages of the listed lepidopteran pests. Younger larvae or earlier instars should be considered more susceptible.

The application rate for all listed crops and targets is 4-8 oz. per acre (or 43,560 sq. ft.). Repeat applications at 3–10-day intervals (or at intervals necessary to maintain control) depending upon plant growth rate, pest activity and other factors.

Under heavy pest pressure conditions, shorten the spray intervals, use a higher rate, and/or increase spray volume to improve spray coverage. Do not spray to run off.

BASIN® Flex may be applied up to and including the day of harvest (Pre-harvest interval = 0 days).

Non-ionic surfactant (0.125% v/v) is recommended to achieve uniform plant coverage on plants that are difficult to wet, have closed canopy or dense foliage. Use a spreader/sticker or an adjuvant that has been approved for the targeted crop to enhance the adhesion of **BASIN® Flex** to the crop.

BASIN® Flex has been evaluated for phytotoxicity on a variety of edible and ornamental crops under various normal growing conditions. It is not feasible, however, to test all crop varieties in all mixtures and combinations. Therefore, prior to treating the entire crop, test a small portion of the crop for sensitivity.

Mixing directions:

Do not add **BASIN® Flex** to the mix tank before introducing the desired amount of water. After adding water to the mix tank, start the mechanical or hydraulic agitation to provide moderate circulation before adding **BASIN® Flex**. Add the number of **BASIN® Flex** packets according to the application instructions to the mix tank and continue circulation. **Maintain circulation while loading and spraying.** Do not store tank mixes overnight. Do not cut or open packets.

Tank mixing and compatibility:

Do not combine **BASIN® Flex** in the spray tank with other pesticides, surfactants, adjuvants or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective, and non-injurious under your use conditions. Follow the most restrictive of the labeling limitations and precautions of all products used in mixtures.

To ensure compatibility of tank-mix combinations, evaluate prior to use. Use a jar test to determine the physical compatibility of this product with other products. Add the proportionate amounts of the products to one quart of water with agitation. Add dry formulations first, then flowables, then emulsifiable concentrates. After thoroughly mixing, let this mixture stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

When a surfactant is used, add it to the diluted spray solution last. Use the recommended dosage advised in the respective surfactant label to the diluted **BASIN® Flex** spray solution and mix thoroughly by agitation to prepare the spray solution for application.

Spray Volume:

Apply **BASIN® Flex** tank mixes in ground equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The amount of water needed per acre will depend upon crop species, growth stage, application equipment and local experience.

Use Restrictions:

For indoor use only. Do not make more than 5 applications of **BASIN® Flex** per season or crop cycle, up to a maximum of 12.5 lb. per acre (43,560 sq. ft.).

Integrated Pest Management (IPM):

BASIN® Flex is an important tool for sound pest management whenever pesticide use is necessary. Because the active ingredient has a novel mode of action, **BASIN® Flex** provides a new control method for the labeled pests. Based on sound scouting practices, use **BASIN® Flex** preventively to avoid infestations, as a spot spray to suppress localized infestations, or as a blanket spray to prevent outbreaks. Applying **BASIN® Flex** in rotation with other insecticides will reduce inputs of conventional insecticides and may also delay development of pesticide resistance. Based on a variety of evaluations, **BASIN® Flex** is not disruptive to the benefits of biological control agents or other non-target species. It is not feasible, however, to test all species of beneficials in all situations. Therefore, consult with a pest control advisor, extension agent or the manufacturer before treating an entire crop where beneficial insects serve as part of an IPM program. Consult local agricultural authorities for IPM strategies that are specific to your crop and location.

Resistance Management:

BASIN® Flex contains the biological peptide U1-AGTX-Ta1b-QA, which has a novel mode of action. It is not known to be cross-resistant to any other class of insecticide. Repeated use of any mode of action, however, has the potential for pests to develop resistance. To delay development of insecticide resistance, the following practices are recommended:

- Carefully follow the specific guidelines within the use directions.
- Avoid using the same active ingredient or mode of action on consecutive generations of insects. Multiple applications to reduce a single generation, however, are acceptable. Treat the next generation with a different mode of action.
- Avoid using less than labeled rates of any insecticide when applied alone.
- Target the insect in early development to achieve the greatest benefit from the insecticide.
- Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.

APPLICATION RATES AND VOLUMES

For all listed crops and pests, apply 4-8 oz. of **BASIN® Flex** per acre (43,560 sq. ft.). Best performance depends on thorough coverage. Use higher rates (8 oz/100 gal) when applying to large or dense plant canopies to ensure complete coverage. Use a minimum of 20 gallons for concentrated sprays.

1 PACKETS	4 oz rate
2 PACKETS	8 oz rate

PESTS CONTROLLED BY BASIN® Flex IN A TANK MIX WITH Bt

Colorado Potato Beetle*

*Apply in a tank mix with the low labeled rate of a beetle active Bt, such as Bt ssp. *tenebrionis*

Lepidopteran Larvae (caterpillars, loopers, “worms”)*, such as:

*Apply in a tank mix with the low labeled rate of a lepidopteran active Bt, such as Bt ssp. *kurstaki*, or Bt ssp. *aizawai*

Alfalfa Caterpillar	Diamondback Moth	Orangedog
<i>Amorbia</i> spp.	Eastern Grapevine Moth	Orangestriped Oakworm
Armyworms	Eastern Tent Caterpillar	Orange Tortrix
Artichoke Plume Moth	European Pepper Moth	Oriental Fruit Moth
Azalea Caterpillar	Filbertworm	Peach Twig Borer
Bagworms	Fruitworms, such as	Pickleworm
Banana Moth	Cherry, Cranberry, Green, Tomato	Pineapple feeding Caterpillars,
Bollworms	Grape Berry Moth	such as <i>Thecla basilides</i>
Browntail Moth	Grape Leafroller	Rindworms
Buck Moth	Grapeleaf Skeletonizer	Saddleback Caterpillar
Budworms, such as	Green Cloverworm	Saddled Prominent
Blackheaded, Jack Pine,	Greenstriped Mapleworm	Saltmarsh Caterpillar
Spruce, Tobacco	Gypsy Moth	Satin Moth
California Oakworm	Headworms	Skippers, such as
Case Bearers, such as	<i>Helicoverpa</i> spp.	Banana, Essex, European
Pecan Nut	<i>Heliothis</i> spp.	Soybean Podworm
Cankerworms	Hickory Shuckworm	Spanworms, such as
Chainspotted Geometer	Hornworms	Bruce, Cranberry, Currant, Elm
Codling Moth	Imported Cabbageworm	Sunflower Moth
Coneworms	Io Moth	Tomato Pinworm
Cornborers, such as	Leafrollers, such as	Tufted Apple Bud Moth
European, Southwestern	Filbert, Fruittree, Obliquebanded,	Tussock Moths, such as
Corn Earworm	Omnivorous, Redbanded	Douglas-fir, Hickory, Western
Cotton Bollworm	Leaf-tier	Pine, Whitemarked
Cotton Leafperforator	Leek Moth	Velvetbean Caterpillar
Cotton Leafworm	Loopers, such as	Walnut Caterpillar
Cutworms, such as	Alfalfa, Cabbage, Hemlock,	Webworms, such as
Citrus,	Omnivorous, Soybean	Cabbage, Fall, Filbert,
Cranberry,	Melonworm	Mimosa
Roughskinned,	Navel Orangeworm	Winter Moth
Spotted,	Oleander Caterpillar	
Varigated		

USE BASIN® Flex IN A TANK MIX WITH Bt ON THE FOLLOWING CROPS

Greenhouse Vegetable and Cole Crops:

Vegetable, Root and Tuber (Group 1), such as:

Beet, Carrot, Horseradish, Potato, Radish, Sugar Beet, Sweet Potato, Turnip, Turnip Greens

Vegetable, Bulb (Group 3), such as:

Garlic, Leek, Onion, Shallot

Vegetable, Leafy Except Brassica (Group 4), such as:

Celery, Endive, Lettuce, Parsley, Spinach

Vegetable, Brassica Leafy (Group 5), such as:

Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collard, Kohlrabi

Vegetable, Legume (Group 6), such as:

Bean, Lentil, Pea, Soybean

Vegetable, Fruiting (Group 8), such as:

Eggplant, Pepper, Tomato

Vegetable, Cucurbit (Group 9), such as:

Cucumber, Melon, Pumpkin, Squash, Watermelon

Other Vegetables

Artichoke, Asparagus, Malanga, Watercress

Greenhouse Herbs, Mints (Group 25) such as:

Basil, Oregano, Peppermint, Thyme

Greenhouse Fruits, Nuts

Small Fruits and Berries (Group 13), such as:

Blackberry, Blueberry, Cranberry, Currant, Grape, Raspberry, Strawberry

Pome Fruits (Group 11), such as:

Apple, Pear, Quince

Stone Fruits (Group 12), such as:

Apricot, Cherry, Nectarine, Peach, Plum

Tree Nuts (Group 14-12), such as:

Almond, Chestnut, Hazelnut/Filbert, Pecan, Pistachio, Walnut

Greenhouse Avocado, Banana, Citrus, Kiwi, Persimmon, Pineapple, Pomegranate, Tropical Fruits

Greenhouse Hemp and Tobacco

Greenhouse/Indoor Nursery Flowers and Ornamental Plants, such as: Bedding

Plants, Container Plants, Cut Flowers, Ornamental Flowers, Ornamentals Plants

STORAGE AND DISPOSAL

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

Pesticide Storage: Store unopened container at room temperature. Do not store product in an open/unsealed container. Discard any remaining product after use. Do not allow product to freeze.

Pesticide Disposal: Discard any remaining product after use on site, or send to a waste disposal facility or pesticide disposal program.

Container Handling [Outer plastic bag of water-soluble packets]: Nonrefillable container. DO NOT reuse or refill this container. Completely empty bag into application equipment, then offer for recycling or dispose of empty bag in a sanitary landfill or by incineration, or by other procedures allowed by state and local authorities, as long as WSP is unbroken.

[Fiber drums with liners]: Nonrefillable container. DO NOT reuse this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration, or by other procedures allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in a manner required by its liner. Do not burn, unless allowed by state and local ordinances.

[Plastic drums with liners]: Nonrefillable container. DO NOT reuse this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration, or by other procedures allowed by state and local authorities. Do not burn, unless allowed by state and local ordinances. Clean promptly after emptying. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

[Supersack]: Nonrefillable container. DO NOT reuse or refill this container. Completely empty bag into application equipment; then dispose of empty bag in a sanitary landfill, or by other procedures approved by state and local authorities.

TERMS AND CONDITIONS OF USE

If the terms of the following WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES are not acceptable, return the unopened package at once to Vestaron Corporation. Otherwise, use of the product will constitute acceptance of the terms under WARRANTY DISCLAIMER, INHERENT RISKS OF USE and LIMITATION OF REMEDIES.

WARRANTY DISCLAIMER

TO THE EXTENT PERMITTED BY APPLICABLE LAW, VESTARON CORPORATION MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE CONCERNING USE OF THE PRODUCT.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of the product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use, storage or handling of the product not in accordance with the accompanying label instructions, abnormal conditions, presence of other materials, or other factors, all of which are beyond the control of Vestaron Corporation. All such risks shall be assumed by the user.

LIMITATION OF REMEDIES

To the extent permitted by applicable law, the exclusive remedy for losses or damages resulting from the product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to replacement of the amount of product used. To the extent permitted by applicable law, Vestaron Corporation disclaims any liability for incidental, consequential, exemplary, special or indirect damages resulting from the use, storage or handling of the product.

The terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES cannot be varied by any written or verbal statements or agreements. No employee or other agent of Vestaron Corporation is authorized to vary or exceed the terms of the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES in any manner. The terms may be varied only by agreement in writing signed by a duly authorized representative of Vestaron Corporation.

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Reference Table for Greenhouse and Indoor Uses

1) Determine the Area

Area (Acre)	Area (Sq Ft)
1 Acre	43,560
0.5 Acre	21,780
0.115 Acre	5,000

2) Determine the Number of Water Soluble Packets

Weight in pounds	Weight in Ounces	Equivalence of Water Soluble Packets	Area (A)	Area (Sq Ft)
0.5 pounds	8 ounces	2 packets	1 Acre	43,560 Sq Ft
0.25 pounds	4 ounces	1 packet	0.5 Acre	21,780 Sq Ft

3) Determine the spray volume for coverage. The spray volume required will vary with the size of plants, plant canopy and plant structure.

Packets (lbs) / 20 Gallons Concentrated Spray	Packets (lbs) / 100 Gallons Dilute Spray
1 (0.25 lbs)	1 (0.25 lbs)
2 (0.5 lbs)	2 (0.5 lbs)