

# **Basin T and Basin-Flex**

Daniel Peck  
Director of Field Development  
Vestaron Corporation  
[dpeck@vestaron.com](mailto:dpeck@vestaron.com)

## Basin-T and Basin Flex

- Introduced to IR-4 as VST-7300 in 2020
- Under EPA Review (submitted Mar 2021)

<b>MASTER LABEL - containing:</b>	
Sublabel A, Basin®-T: Greenhouse and Field Use	
Sublabel B, Basin® Flex: Greenhouse and Field Use in Tank Mixes with Bt	

## Basin®

In Water Soluble Packets  
Biological Insecticide/Miticide

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

---

**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	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
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**HOTLINE NUMBER**

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<b>EPA Reg. No.:</b> 88847-XXXX	<b>EPA Est. No.:</b> XXXXX-XX-XXX
<b>Net Contents:</b> _____ [Gal] [lbs]	<b>Lot No.:</b> XXXX
<b>Made in USA</b>	

**Manufactured for:**  
Vestaron Corporation  
800 Park Offices Drive, Suite 117  
PO Box 13137  
Research Triangle Park, NC 27709



### Basin-T and Basin Flex

- Introduced to IR-4 as VST-7300 in 2020
- Under EPA Review (submitted Mar 2021)
- Like Spear
  - Bioinsecticide with peptide active ingredient
  - Contact efficacy against smaller, soft-bodied insects/mites (Basin T)
  - Ingestion efficacy against lepidopteran larvae when combined with Bt facilitator (Basin Flex)
  - Same fit for environmental horticulture

<b>MASTER LABEL - containing:</b>	
Sublabel A, Basin <sup>®</sup> -T: Greenhouse and Field Use	
Sublabel B, Basin <sup>®</sup> Flex: Greenhouse and Field Use in Tank Mixes with Bt	

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  - Contact efficacy against smaller, soft-bodied insects/mites (Basin T)
  - Ingestion efficacy against lepidopteran larvae when combined with Bt facilitator (Basin Flex)
  - Same fit for environmental horticulture
- Unlike Spear
  - Active ingredient U1-AGTX-Ta1b-QA
  - Targets the insect nervous system at distinct site and likely a new IRAC group
  - 8.5% dry flowable formulation (4-oz WSP)

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### Basin-T

**Sublabel A:**  
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Biological Insecticide/Miticide

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**Other Ingredients:** ..... 91.5%

**Total:** ..... 100.0%

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**EPA Reg. No.: 88847-XXXX**  
**EPA Est. No.: Printed on Container**  
Made in USA

**NET CONTENTS:**  
**40 x 4 oz. packets (10 lbs.)**  
SALXXXX REV031221V1.4

FIELD USES	
Crop	Insect/Mite Pest
<b>Field Vegetables:</b> <b>Vegetables, Root and Tuber (Group 1),</b> such as: Beet, Carrot, Potato, Radish, Sugarbeet <b>Vegetable, Bulb (Group 3),</b> such as: Garlic, Leek, Onion (Green and Bulb) <b>Vegetable, Leafy Except Brassica (Group 4),</b> such as: Celery, Endive, Lettuce, Parsley, Spinach <b>Vegetable, Brassica Leafy (Group 5),</b> such as: Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Mustard Greens <b>Vegetable, Legume (Group 6),</b> such as: Bean, Lentil, Pea, Soybean <b>Vegetable, Fruiting (Group 8),</b> such as: Eggplant, Pepper, Tomato <b>Vegetable, Cucurbit (Group 9),</b> such as: Cucumber, Melon, Squash, Watermelon	<b>Plant-feeding Mites,</b> such as: Broad Mite Lewis Mite Twospotted Spider Mite <b>Psyllids,</b> such as: Potato Psyllid <b>Thrips,</b> such as: Onion Thrips Tobacco Thrips Western Flower Thrips <b>Whiteflies,</b> such as: Sweetpotato Whitefly
<b>Field Fruit and Berries:</b> <b>Fruit, Citrus (Group 10),</b> such as: Grapefruit, Lemon, Lime, Orange <b>Fruit, Pome (Group 11),</b> such as: Apple, Pear <b>Fruit, Stone (Group 12),</b> such as: Cherry, Nectarine, Peach, Plum, Prune <b>Berry (Group 13),</b> such as: Blackberry, Blueberry, Grape, Raspberry, Strawberry	<b>Plant-feeding Mites,</b> such as: Broad Mite Rust Mite Twospotted Spider Mite <b>Psyllids,</b> such as: Asian Citrus Psyllid Pear Psylla <b>Spotted-wing Drosophila,</b> <b>Thrips,</b> such as: Western Flower Thrips
<b>Tree Nuts (Group 14-12)</b>	<b>Plant-feeding Mites,</b> such as: Broad Mite Pacific Spider Mite Twospotted Spider Mite
<b>Hemp</b>	<b>Aphids,</b> such as: Cotton/Melon Aphids Green Peach Aphid <b>Plant-feeding Mites,</b> such as: Broad Mite Twospotted Spider Mite <b>Thrips,</b> such as: Onion Thrips Tobacco Thrips Western Flower Thrips
<b>Hops</b>	<b>Plant-feeding Mites,</b> such as: Broad Mite Lewis Mite Twospotted Spider Mite
<b>Tobacco</b>	<b>Aphids,</b> such as: Green Peach Aphid <b>Thrips,</b> such as: Tobacco Thrips

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

**USE DIRECTIONS FOR FIELD AND ORCHARD CROPS**

Use high pressure for application of the spray solution. Apply 1-6 lb. of Basin per acre. Better coverage and penetration of crop canopy is usually achieved when smaller spray droplets are applied. Use very fine nozzles to create a fine spray mist. Use of a non-ionic or blended organosilicone surfactant at 0.125% (v/v) to improve coverage may increase performance. Repeat applications at 3-10-day intervals depending upon plant growth rate, pest activity and other factors.



### Basin Flex

**Sublabel B:**  
 Greenhouse and Field Use  
 in Tank Mixes with Bt

**Basin<sup>®</sup> Flex**  
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**Biological Insecticide**

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 Other Ingredients: ..... 91.5%  
 Total: ..... 100.0%

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**NET CONTENTS:**  
**40 x 4 oz. packets (10 lbs.)**  
SALXXXX REV031221v1.4

USE Basin<sup>®</sup> Flex IN A TANK MIX WITH Bt ON THE FOLLOWING CROPS

**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

**Field Crops, such as:**  
 Alfalfa (Hay Seed), Canola, Corn (Field, Sweet, Popcorn), Cotton, Forage Crops, Hay, Hops,  
 Jojoba, Peanut, Rapeseed, Rice, Safflower, Small Grains, Sorghum, Sunflower

**Herbs, Mints (Group 25) such as:**  
 Basil, Oregano, Peppermint, Thyme

**Fruits, Nuts**  
**Small Fruits and Berries (Group 10),** 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  
 Avocado, Banana, Citrus, Kiwi, Persimmon, Pineapple, Pomegranate, Tropical Fruits

**Bedding Plants, Container Plants, Flowers, Ornamentals**  
**Greenhouse Crops and Outdoor Nursery Crops, such as:**  
 Brassicas, Flowers, Fruiting groups, Herbs and Spices, Leafy Vegetables, Ornamental plants,  
 Vegetable Groups

**Forest, Ornamentals, Ornamental Fruit, Shade Trees, Shrubs, Sugar Maple Trees, Nut and Citrus Trees**

PESTS CONTROLLED BY Basin<sup>®</sup> 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 spp. *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 spp. *kurstaki*, or Bt spp. *aizawai*

Alfalfa Caterpillar	Diamondback Moth	Orangedog
Amarobia spp.	Eastern Grapevine Moth	Orangestriped Oakworm
Amyworms	Eastern Tent Caterpillar	Orange Tortex
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,
Beetworms	Grape Berry Moth	such as <i>Thecia basiliodes</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	Lo 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	Leaflier	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		



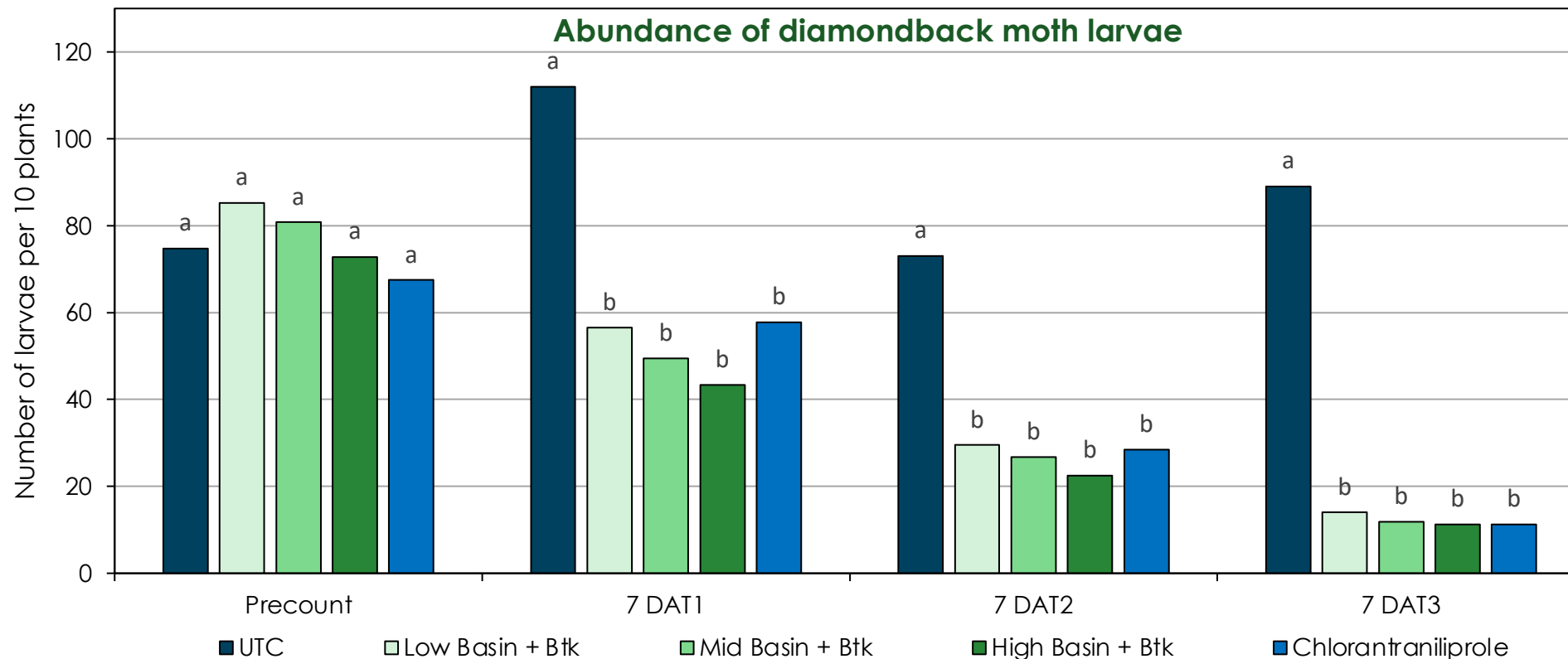


## Basin T Targets in 2021

- Broad mite
  - Pepper
- Silverleaf whitefly
  - Rose, Tomato
- Two-spotted spider mite
  - Blackberry
  - Chrysanthemum
  - Cucurbits
  - Tomato
- Western flower thrips
  - Blackberry
  - Cucurbits
  - Pepper
  - Rose
  - Tomato

## Basin-Flex Targets in 2021

- |                            |  |
|----------------------------|--|
| • Alfalfa caterpillar      | – Alfalfa                                  |
| • Beet armyworm            | – Brassicas, Corn, Lettuce, Pepper, Tomato |
| • Browntail moth           | – Shade trees                              |
| • Cabbage looper           | – Brassicas, Cucurbits                     |
| • Codling moth             | – Apple, Pear                              |
| • Corn earworm             | – Corn, Hemp, Pepper                       |
| • Diamondback moth         | – Brassicas                                |
| • Fall armyworm            | – Corn, Rice                               |
| • Fireworms                | – Cranberry                                |
| • Fruitworms               | – Blackberry                               |
| • Hops looper              | – Hops                                     |
| • Melonworm/Pickleworm     | – Cucurbits                                |
| • Navel orangeworm         | – Almond                                   |
| • Obliquebanded leafroller | – Apple                                    |
| • Oriental fruit moth      | – Peach                                    |
| • Peach twig borer         | – Peach                                    |
| • Soybean looper           | – Soybean                                  |
| • Tobacco budworm          | – Tobacco                                  |
| • Tomato fruitworm         | – Tomato                                   |
| • True armyworm            | – Corn, Rice                               |



### Trial Outcomes

- Basin Flex (+Btk) at 225, 337 and 450 g/ha provides control equivalent to chlorantraniliprole against diamondback moth larvae
- Basin Flex (+Btk) gave 84-87% control, chlorantraniliprole 87%, based on the last rating date
- There was a numerical, but not statistically rate response across 3 rates of Basin Flex

Diamondback Moth  
*Plutella xylostella*

### Trial Summary

#### Researcher:

- Conviviendo con la Naturaleza
- Pedro Posos Ponce
- Pajacuarán, Nayarit, Mexico

#### Design:

- RCBD
- 4 replicates
- Plots 22.4 sq m

#### Treatments:

- VST-7300 @ 225, 337, 450 g/ha with Btk (DiPel) @ 500 g/ha
- Chlorantraniliprole (Coragen 20 SC) 200 mL/ha
- Broccoli var Italica

#### Applications:

- 3 at 7-day intervals
- NIS (Break Through) at 0.125% v/v
- Spray volume 286 L/ha





### Basin-T Needs Going Forward

- Current commercialization challenges mean no requests for IR-4 within environmental horticulture
- Will consider specific opportunities for projects related to insecticide resistance or pest problems without solutions

### Basin Flex Needs Going Forward

- Broader performance data for certain labelled use sites
  - Flowers, bedding plants, container plants, nurseries
  - Forest, ornamental and shade trees
- Co-application with facilitators (gut disruptors) besides *Bt kurstaki*
  - *Bt ssp. aizawai* for other lep species
  - *Bt ssp. tenebrionis* or *ssp. galleriae* for beetle species
- Role as rotational product
  - Resistance management programs

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