

 Summit Agro<sup>USA</sup>

**Seican<sup>TM</sup>**



Broad Spectrum Biopesticide  
Miticide / Insecticide

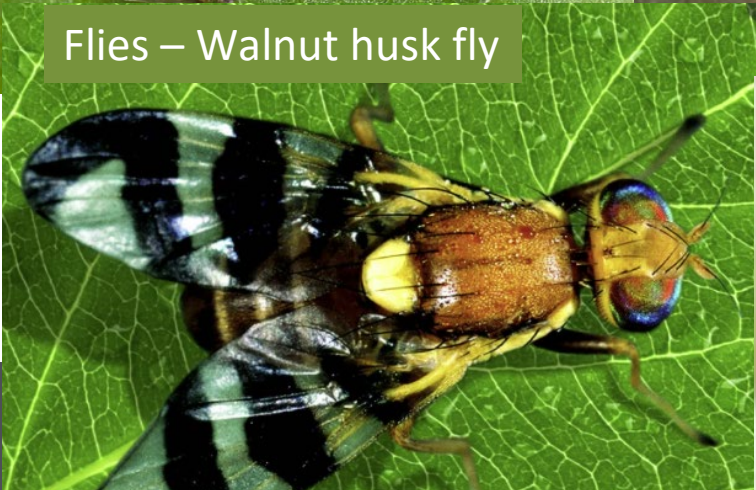


# Product Information

- Active Ingredient: [Cinnamaldehyde](#)
- Formulation type: Emulsifiable concentrate (EC)
- Miticide and Insecticide
- Fast action
- Effective at low doses
- Ideally suited for IPM, Organic farming, sustainable programs.
- Compatibility with most BCA (Biological Control Agents)
- OMRI certificate (n° 10,617)
- Suitable for resistance management.
- REI - 4 hours
- PHI - 0 days

# Broad Spectrum Biopesticide

Seican™



# Mode of Action

## Alteration of the nervous system:

- Inhibits acetylcholinesterase, an essential enzyme for nervous system function.
- Inhibits neuronal ionic transportation.
- Neuromotor disfunction.

## Antifeedant and Repellent Effects:

- Negative impact on sensory receptors – antifeedant
- Activation of thermoreceptors - repellent

## Physical Effects:

- Seals spiracles – asphyxiation
- Softens the exoskeleton
- Dehydration

# Impact on Beneficials

## Low impact on Beneficials:

< 25% of reduction of eggs, larv

Bumble bee - *Bombus* sp.

Parasitic wasp - *Encarsia formosa*

Predatory mite - *Amblyseius californicus*

Parasitic wasp - *Aphidius* spp.

Predatory mite - *Amblyseius cucumeris*

Green lacewing - *Chrysoperla carnea*

Predatory mite - *Amblyseius swirskii*

Lady bug - Coccinellidae

Predatory midge - *Aphidoletes aphidimyza* / *Feltiella acarisuga*

Leafminer parasite - *Dacnusa sibirica* / *Diglyphus isaea*

Hoverfly - *Episyrphus balteatus*

Predatory mirid bug - *Macrolophus caliginosus* / *Nesidiocoris*

*tenuis* Whitefly parasite - *Eretmocerus* spp.

Minute Pirate Bugs - *Orius* spp.

Predatory mite - *Phytoseiulus persimilis*

Predatory mite - *Typhlodromus pyri*



# Use Rates

	<i>First presence</i>	<i>Common rate</i>	<i>High pressure</i>	
<b>SEICAN*</b>	<b>1 pint per acre</b>	<b>2 pints per acre</b>	<b>3 pints per acre</b>	<b>3.5 pints per acre</b>
**	16 fl. oz. per acre	32 fl. oz. per acre	48 fl. oz. per acre	56 fl. oz. per acre
Frequency	5-7 days	5-10 days	5-7 days	

\*Rate/100 gallons of water.

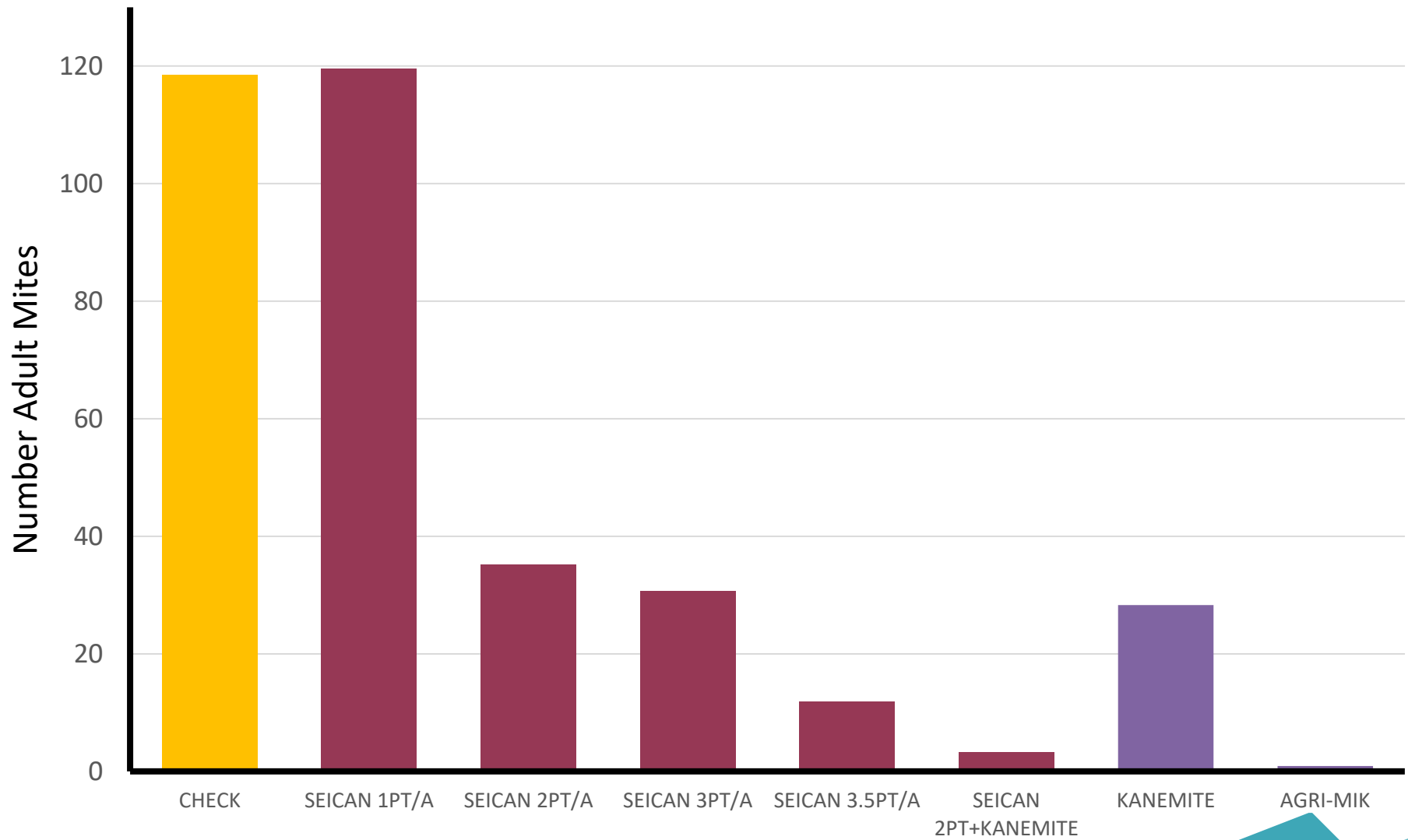
\*\*In those crops where water volume applications are up to 150 gallons per acre or more, it is advisable to use a Dilution Rate between 40-55 fl. oz. per 100 gallons.

# Crops on the Label

Fruits, Citrus and Nut Trees			Veg: Leafy, Fruiting, and Cucurbit Veg			Herbs, Spices and Other Crops					
Almond	Apples	Kumquat	Celery	Eggplant	Citron melon	Alfalfa	Parley	Papaya	Carob	Sapote	Sugar cane
Apricot	Crabapple	Mandarin	Endive	Ground cherry	Cucumber	Basil	Thyme	Pomegranate	Cherimova	Mushroom	Sunflower
Cherry	Pear	Almond	Lettuce	Okra	Melon	Chives	Avocado	Pineapple	Cocoa	Okra	Tea
Nectarine	Quince	Pecan	Prsley	Pepper	Pumpkin	Cilantro	Banana	Acerola	Coffee	Olive	Tobacco
Peache	Orange	Pistachio	Radicchio	Tomato	Squash	Dill	Date	Artichoke	Hop	Passion fruit	
Plum	Lemons	Walnut	Mustart green	Chayote	Watermelon	Mint	Fig	Cacao	Lychee	Peanut	
Prune	Grapefruit		Turnip green	Chinese Cucumber		Oregano	Mango	Canistel	Mamey	Persimmon	
Veg: Brassica (cole), Bulb + Root & Tuber			Small fruit, Berries & Grapes	Field Crops: Legume Veg, Cereals grains and Forage & Grasses		Ornamental: Turf, lawn, golf course, trees		Greenhouse Uses			
Broccoli	Onion	Horseradish	Blackberry	Bean	Oat	Ornamentals	Landscape trees	Vegetables	Flowers		
Cabbage	Shallot	Potato	Blueberry	Lentil	Rice	shrubs		Herbs			
Chinese Cabbage	Artichoke		Cranberry	Pea	Sorghum	Turf		Spices			
Cauliflower	Sugar beet		Grape	Soybean	Triticale	Christmas trees		Ornamentals			
Kale	Chicory		Guav	Barley	Wheat	Shade trees		Shrubs			
Garlic	Ginger		Raspberry	Corn	Grass*	Nursery trees		Trees			
Leek	Ginseng		Strawberry	Millet		Ornamental trees		Bedding plants			

\*Any grass that will be fed to or grazed by livestock

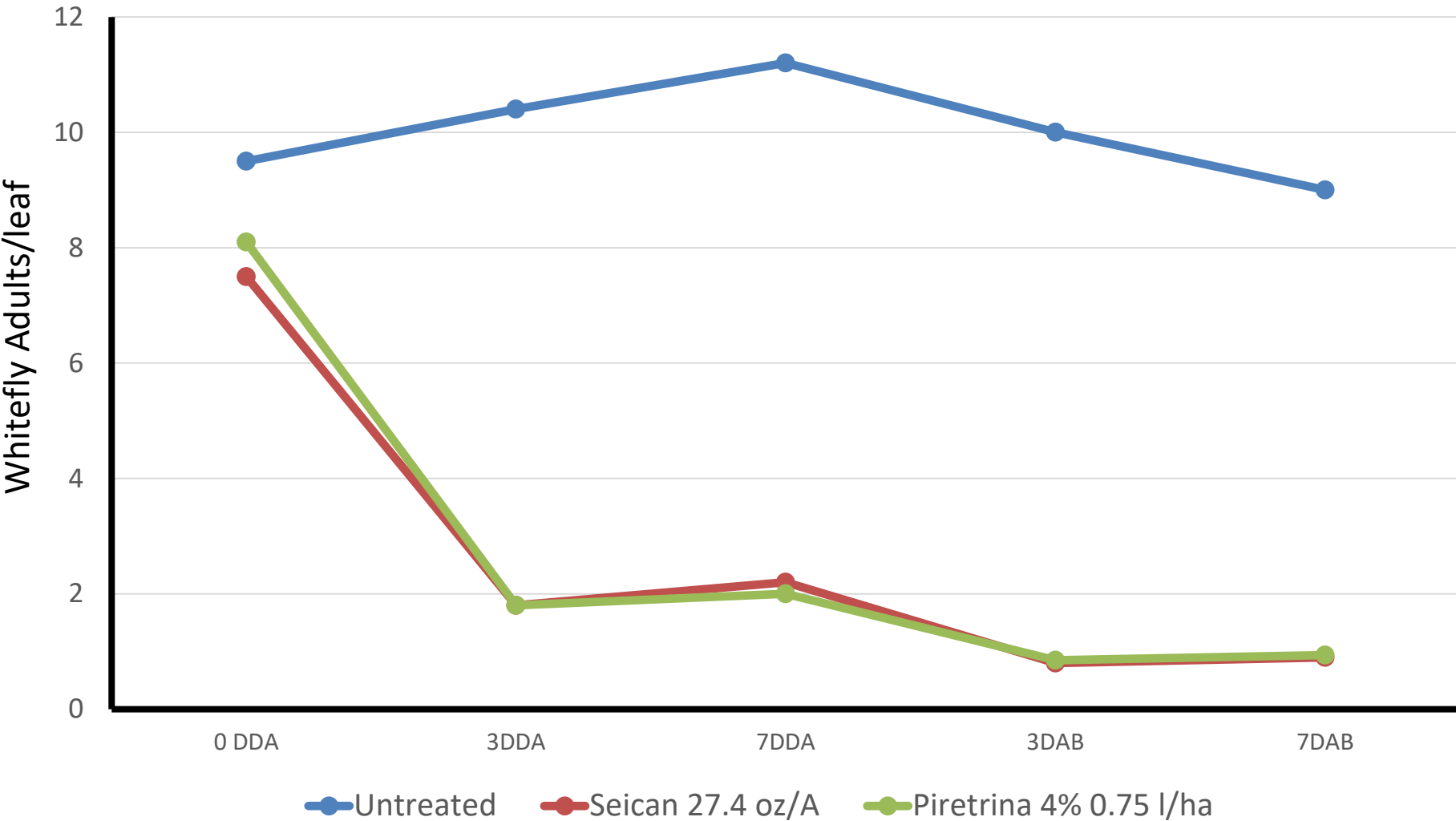
# Efficacy against Adult Mites in Cantaloupe



GLC Consulting LLC. 2018. - Georgia



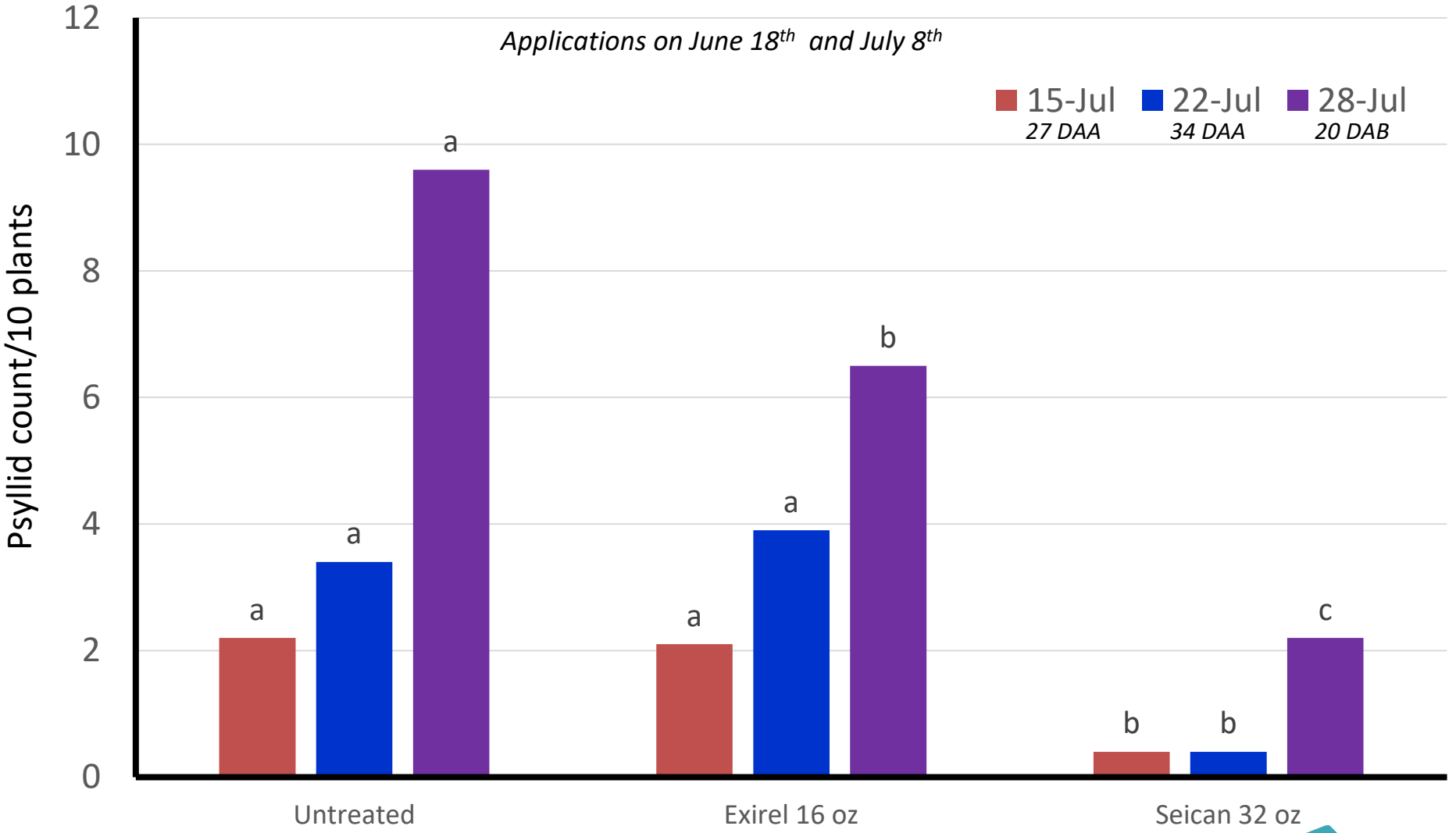
# Efficacy against whitefly adults on Zucchini



Source: Agricola Italy 2020. 2 applications, 7 day interval

Example Piretrina = pyrethrin

# Efficacy against citrus psyllid on Hamlin sweet orange



Source: 234 Henry Yonce, Zolfo Springs, FL. 2020

# Summary

- Active ingredient in Seican is Cinnamaldehyde
- Broad spectrum
- Fast acting
- OMRI listed
- Works by
  - Asphyxiation – sealing spiracles and altering respiration
  - Antifeedant activity
  - Softening exoskeleton
- Beneficial friendly
- Provides insect control comparable to standard chemical insecticides.

To learn more, visit us at [SUMMITAGRO-USA.COM](https://SUMMITAGRO-USA.COM)

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**Always read and follow label directions**

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