



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
WASHINGTON, D.C. 20460

OFFICE OF  
CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Dr. Kenneth Racke  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

NOV 10 2010

Subject: Spinosad 0.5% SC, EPA Reg. No. 62719-314  
Date of Registrant Submission: August 27, 2010  
Decision No.: 435127

Dear Dr. Racke,

The labeling referred to above, submitted in connection with registration under the Federal insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

Two (2) copies of the finished labeling must be submitted prior to releasing each product for shipment. If you have any questions regarding this letter, please contact Samantha Hulkower at (703) 603-0683.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Suarez", with a large, sweeping flourish at the end.

Mark Suarez  
Product Manager 13  
Insecticide Branch  
Registration Division (7505P)

Enclosures: Copy of label stamped "Accepted"

T6P / Spinosad 0.5% SC / Amend / 11-03-10  
file: Spinosad 0.5% SC-314 03Nov10d.doc

# Spinosad 0.5% SC

EPA Reg. No. 62719-314

## Registration Notes:

**Source label text** based on EPA accepted copy dated September 13, 2007 and notifications coded "T6P / Spinosad 0.5% SC / Notif / 09-21-07," "T6P / Spinosad 0.5% SC / Notif / 01-13-09," and "T6P / Spinosad 0.5% SC / Notif / 11-12-09."

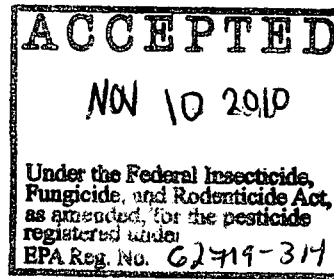
## Proposed changes by amendment based on EPA National Organic Program Labeling Request Checklist dated March 11, 2010:

1. Sale copy: Added "Bulb vegetables, such as dry bulb onion and garlic," "Dates," "Leaves of root and tuber vegetables, such as carrot, garden beet, and sweet potato," "Peppermint and spearmint," "Pomegranate," "Root vegetables, such as carrot, garden beet, radish, and rutabaga," "Spices, such as culantro seed, dill seed, mustard seed, and poppy seed," "and dried" to "Succulent beans and peas," and "Tropical" to "tree fruits."
2. Deleted "U.S. Patent No. 5,362,634 and 5,496,931."
3. Deleted "Listed by the Organic Materials Review Institute (OMRI) for use in organic production."
4. Changed "For Organic Production" to "For Use in Organic Gardening."
5. Physical or Chemical Hazards: Deleted section because flashpoint of product is >200°F.
6. Deleted "Spinosad is classified as an organic substance by the USDA National Organic Standards Board."
7. How to Mix: (1) In first sentence, changed "recommended" to "specified"; (2) revised second sentence to read "Mix only as much spray as needed for a single treatment."; (3) revised third sentence to read "In vegetable gardens, for best results, do not use. . . ."
8. Home Gardens: (1) For **apple**, added European grapevine moth, light brown apple moth, and thrips; (2) for **asparagus**, changed maximum number of applications to 3; (3) added bulb vegetables, dates, leaves of root and tuber vegetables, peppermint and spearmint, pomegranate, root vegetables, and spices; (4) for **bushberries** added European grapevine moth and light brown apple moth; (5) for **caneberries**, added European grapevine moth, light brown apple moth, and sawfly; (6) for **cole crops**, added armyworms, flea beetle (suppression), and thrips; (7) for **cucurbits**, added armyworm and loopers; (8) for **fruiting vegetables**, added European corn borer, flea beetle, and loopers; (9) for **grape**, added European grapevine moth and light brown apple moth; (10) for **leafy and dried herbs**, changed added loopers and changed minimum days to wait to 5; (11) for **leafy vegetables**, added diamondback moth, loopers, and thrips; (12) for **tuberous and corn vegetables**, added potatoes, artichoke plume moth and loopers, and changed minimum days to wait before harvest to artichoke, 2/all others, 7; (13) for **stone fruits**, added European grapevine moth, fruitworm, light brown apple moth, and oriental fruit moth, and moved peach to 1 day for minimum days to wait before harvest; (14) for **strawberry**, added European grapevine moth and light brown apple moth, and changed maximum number of applications to 5; (15) for **succulent beans and peas**, added "and dried," loopers, and changed minimum days to wait before harvest to succulent, 3/dried, 28; (16) for **tree nuts**, added codling moth, filbert worm, light brown apple moth, pecan nut casebearer, and rehdumped caterpillar, and changed minimum days to wait before harvest to 1; (17) for **tree fruits**, added "tropical," European grapevine moth, and light brown apple moth.
9. Lawns and Ornamentals: (1) In table, changed "Comments" to "Directions"; (2) in all sections of the table, changed "recommended" to "specified."

## 18Aug10 – Additional proposed changes based on August 5, 2010 and August 10, 2010 e-mails from Samantha Hulkower (EPA) to Ken Racke (DAS):

1. Home Gardens: Changed column heading from "Maximum Number of Applications per Season" to "Maximum Number of Applications per Calendar Year."
2. Root Vegetables: Changed minimum days to wait before reapplying for sugar beets and garden beets to 7 days.

3/17



(Base label):

## **Spinosad 0.5% SC**

**Insect Control Product**

### **FOR RESIDENTIAL USE IN HOME GARDENS, LAWNS AND ORNAMENTALS**

**For control of foliage feeding worms (caterpillars), thrips and other listed pests in:**

- Apple and other pome fruits, such as crabapples, mayhaw, pears, and quince
- Asparagus
- Bulb vegetables, such as dry bulb onion and garlic
- Bushberries and caneberries, such as blackberry, blueberry, and raspberry
- Citrus trees, such as grapefruit, lemons, limes, oranges, and tangerines
- Cole crops (Brassica), such as broccoli, cabbage and cauliflower
- Cucurbits, such as cantaloupe and honeydew
- Dates
- Fruiting vegetables, such as eggplant, okra, pepper, and tomato
- Grape
- Lawns
- Leafy and dried herbs
- Leafy vegetables, such as celery, lettuce, and spinach
- Leaves of root and tuber vegetables, such as carrot, garden beet, and sweet potato
- Peppermint and spearmint
- Pomegranate
- Outdoor herbaceous and woody ornamentals
- Root vegetables, such as carrot, garden beet, radish, and rutabaga
- Spices, such as culantro seed, dill seed, mustard seed, and poppy seed
- Stone fruits, such as apricots, cherries, nectarines, peaches, plums, and prunes
- Strawberry
- Succulent and dried beans and peas, such as blackeyed pea, lima bean, and snap bean
- Sweet corn and popcorn
- Tree nuts, such as almonds, cashew, pecans, and walnuts
- Tropical tree fruits, such as avocado, mango, papaya, and star apple
- Tuberous vegetables, such as cassava, Chinese artichoke, Jerusalem artichoke, potatoes, sweet potatoes, and yams
- Fire ant control in lawns, ornamentals, home gardens, and other outdoor areas

**See Home Gardens and Lawns and Ornamentals sections for a complete listing of crops and use sites.**

and/or  
Liquid concentrate  
and/or

4/17

**Easy to use**

and/or

**User friendly**

and/or

**No guesswork**

and/or

**CONCENTRATE**

and/or

**For vegetables, apples, and citrus trees**

and/or

**Controls worms [caterpillars]**

and/or

**Kills worms [caterpillars]**

and/or

**Controls citrus leafminers**

and/or

**Controls Colorado potato beetle**

and/or

**Kills Colorado potato beetle**

and/or

**Controls certain insects in vegetable gardens**

and/or

**Controls certain insects in the garden**

and/or

**Controls certain insects in vegetable gardens**

and/or

**For vegetables**

and/or

**No odor water-based formula**

and/or

**Water-based formula**

and/or

**Contains spinosad**

and/or

**Do-it-yourself home garden insect control**

and/or

**Leaves no oily residue**

and/or

**Kills certain home garden insect pests**

and/or

**Short post-harvest interval**

and/or

**Pick apples 7 days after spraying**

and/or

**Contains [trademark] Naturalyte® insect control**

and/or

**A [trademark] Naturalyte® insect control product**

and/or

**Provides [excellent] control of [worms] [Colorado potato beetle] [fire ants] [thrips]**

and/or

**Provides control of [spider mites] [worms] [Colorado potato beetle] [fire ants] [thrips]**

and/or

**Can be used in [home lawns] [ornamentals] [gardens] [fruit trees] [nuts] [grapes] [home orchards]**

and/or

**Not intended to imply environmental safety either alone or compared to other products**

5/17

## Active Ingredient:

spinosad (a mixture of spinosyn A  
and spinosyn D) .....0.5%

Other Ingredients .....99.5%

Total .....100.0%

Contains 0.04 lb of active ingredient per gallon.



For Use in Organic Gardening



Keep Out of Reach of Children

---

**Precautionary Statements**

---

**Environmental Hazards**

This product is toxic to bees exposed to treatment for 3 hours following treatment. Do not apply this pesticide to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period. This product is toxic to aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

**Storage and Disposal**

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

**Pesticide Storage:** Store in original container only in secure or locked storage area.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

**If empty:** Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency or 1-800-992-5994 for disposal instructions. Never place unused product down any indoor or outdoor drain.

Refer to label booklet for Directions for Use.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

**Shake Well Before Use -- Avoid Freezing**

Agricultural Chemical: Do not ship or store with food, feeds, drugs, or clothing.

EPA Reg. No. 62719-314

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

Produced for

Dow AgroSciences LLC

9330 Zionsville Road

6/17

T6P / Spinosad 0.5% SC / Amend / 11-03-10

Page 4

Indianapolis, IN 46268

Net Contents \_\_\_\_\_

7/17

(Label booklet cover):

## **Spinosad 0.5% SC**

### **Insect Control Product**

#### **FOR RESIDENTIAL USE IN HOME GARDENS, LAWNS AND ORNAMENTALS**

**For control of foliage feeding worms (caterpillars), thrips and other listed pests in:**

- Apple and other pome fruits, such as crabapples, mayhaw, pears, and quince
- Asparagus
- Bulb vegetables, such as dry bulb onion and garlic
- Bushberries and caneberries, such as blackberry, blueberry, and raspberry
- Citrus trees, such as grapefruit, lemons, limes, oranges, and tangerines
- Cole crops (Brassica), such as broccoli, cabbage and cauliflower
- Cucurbits, such as cantaloupe and honeydew
- Dates
- Fruiting vegetables, such as eggplant, okra, pepper, and tomato
- Grape
- Lawns
- Leafy and dried herbs
- Leafy vegetables, such as celery, lettuce, and spinach
- Leaves of root and tuber vegetables, such as carrot, garden beet, and sweet potato
- Peppermint and spearmint
- Pomegranate
- Outdoor herbaceous and woody ornamentals
- Root vegetables, such as carrot, garden beet, radish, and rutabaga
- Spices, such as culantro seed, dill seed, mustard seed, and poppy seed
- Stone fruits, such as apricots, cherries, nectarines, peaches, plums, and prunes
- Strawberry
- Succulent and dried beans and peas, such as blackeyed pea, lima bean, and snap bean
- Sweet corn and popcorn
- Tree nuts, such as almonds, cashew, pecans, and walnuts
- Tropical tree fruits, such as avocado, mango, papaya, and star apple
- Tuberous vegetables, such as cassava, Chinese artichoke, Jerusalem artichoke, potatoes, sweet potatoes, and yams
- Fire ant control in lawns, ornamentals, home gardens, and other outdoor areas

See Home Gardens and Lawns and Ornamentals sections for a complete listing of crops and use sites.

and/or  
Liquid concentrate  
and/or

**Easy to use**  
and/or  
**User friendly**  
and/or  
**No guesswork**  
and/or  
**CONCENTRATE**  
and/or  
**For vegetables, apples, and citrus trees**  
and/or  
**Controls worms [caterpillars]**  
and/or  
**Kills worms [caterpillars]**  
and/or  
**Controls citrus leafminers**  
and/or  
**Controls Colorado potato beetle**  
and/or  
**Kills Colorado potato beetle**  
and/or  
**Controls certain insects in vegetable gardens**  
and/or  
**Controls certain insects in the garden**  
and/or  
**Controls certain insects in vegetable gardens**  
and/or  
**For vegetables**  
and/or  
**No odor water-based formula**  
and/or  
**Water-based formula**  
and/or  
**Contains spinosad**  
and/or  
**Do-it-yourself home garden insect control**  
and/or  
**Leaves no oily residue**  
and/or  
**Kills certain home garden insect pests**  
and/or  
**Short post-harvest interval**  
and/or  
**Pick apples 7 days after spraying**  
and/or  
**Contains [trademark] Naturalyte® insect control**  
and/or  
**A [trademark] Naturalyte® insect control product**  
and/or  
**Provides [excellent] control of [worms] [Colorado potato beetle] [fire ants] [thrips]**  
and/or  
**Provides control of [spider mites] [worms] [Colorado potato beetle] [fire ants] [thrips]**  
and/or  
**Can be used in [home lawns] [ornamentals] [gardens] [fruit trees] [nuts] [grapes] [home orchards]**  
and/or  
**Not intended to imply environmental safety either alone or compared to other products**



9/17

Active Ingredient:

spinosad (a mixture of spinosyn A and spinosyn D) .....	0.5%
Other Ingredients .....	99.5%
Total .....	100.0%

Contains 0.04 lb of active ingredient per gallon.



For Use in Organic Gardening



**Keep Out of Reach of Children**

Refer to inside of label booklet for additional precautionary information including Directions for Use.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs, or clothing.

EPA Reg. No. 62719-314

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

Net Contents \_\_\_\_\_

10/17

(Page 1 through end):

## Precautionary Statements

### Environmental Hazards

This product is toxic to bees exposed to treatment for 3 hours following treatment. Do not apply this pesticide to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period. This product is toxic to aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

### Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

**For residential use in home gardens, lawns and ornamentals. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.**

### Storage and Disposal

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

**Pesticide Storage:** Store in original container only in secure or locked storage area.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

**If empty:** Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency or 1-800-992-5994 for disposal instructions. Never place unused product down any indoor or outdoor drain.

Spinosad 0.5% SC insect control product is intended for control of worms (caterpillars) and other listed insects. Spinosad 0.5% SC does not significantly impact predatory beneficial insects, predatory mites, and spiders while controlling target pests. Susceptible insect pests may be observed on plants up to several hours after treatment, but will have ceased active feeding before being killed.

### How to Mix

Add the required amount of Spinosad 0.5% SC to the specified amount of water, mix thoroughly, and apply uniformly to both upper and lower surfaces of plant foliage. Mix only as much spray as needed for a single treatment. In vegetable gardens, for best results, do not use more than 3 gallons of spray for 1000 sq ft of area. Do not use kitchen utensils for measuring. Keep measuring utensils with product and away from children.

Unit of Measure <sup>1</sup>	Amount of Spinosad 0.5% SC to Use per Pint, Quart or Gallon of Spray		
	Per Pint (16 fl oz) of Spray	Per Quart (32 fl oz) of Spray	Per Gallon (128 fl oz) of Spray
Fluid Ounces (fl oz)	0.25 fl oz	0.5 fl oz	2 fl oz
Milliliters (mL)	7.5 mL	15 mL	60 mL
Tablespoons (Tbs)	1/2 Tbs	1 Tbs	4 Tbs
Teaspoons (tsp)	1 1/2 tsp	3 tsp	12 tsp

<sup>1</sup>Conversion factors: 1 fl oz = 30 mL = 2 tablespoons (Tbs) = 6 teaspoons (tsp) (1 teaspoon = 1/3 tablespoon)

11/17

## How to Apply

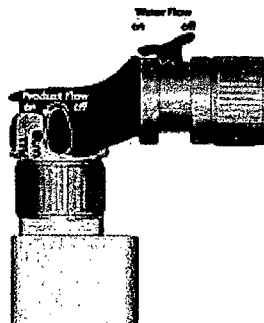
### Shake Well Before Use

Spinosad 0.5% SC may be applied with trigger sprayer, hand-held, backpack, or hose-end sprayers. Use a hose-end sprayer that can be adjusted to provide a dilution ratio of about 2 fl oz of Spinosad 0.5% SC (4 Tbs) per gallon of spray. **[Editor's Note: The following statement should be included in the label if product is packaged to be applied with a hose-end sprayer.]** See Hose-End Sprayer Directions below if this product is packaged in a hose-end sprayer.

### Hose-End Sprayer Directions

**[Editors note: Formulator label may include directions and graphic(s) for a hose-end sprayer application. Some states may require specific hose-end sprayer directions to be on the basic registrant's label before the formulator may add hose-end sprayer directions to its label.]**

1. Before beginning, make sure the top blue water flow valve is in the "off" position and the side red product flow valve is up in the "off" position.
2. Shake container well and attach it to the garden hose.
3. Turn on the water faucet.
4. To apply, remove the side pin labeled "PULL OUT" and rotate the side red product flow valve counterclockwise to the "on" position. While holding the sprayer at waist height, point the sprayer away from your face and body, and put the top blue water flow valve forward to activate the water.
5. When spraying is complete, or if spraying stops at any time, press the top blue water flow valve with thumb to the rear to shut off the water. Turn the side red product flow valve clockwise to the upright "off" position and replace the side pin.
6. Turn off the water at the faucet.
7. Remove the container from the garden hose, rinse thoroughly, and follow the directions in the Storage and Disposal section for storing or disposing of the container.



## When to Apply

Apply when listed pests are present. Repeat applications may be made as indicated in the Home Gardens section. See your state extension service recommendations for treatment guidelines in your area.

## Uses

### Home Gardens

In the state of Georgia, do not apply Spinosad 0.5% SC to: broccoli raab, Chinese cabbage (bok choy), collards, kale, mizuna, mustard greens, mustard spinach, rape greens.

		Maximum Number of	Minimum	Minimum Days to Wait from

Crops	Pests Controlled	Applications per Calendar Year	Days to Wait Before Reapplying	Last Application to Harvest
<b>apple and other pome fruits</b> including crabapples, loquat, mayhaw, pears, and quince	codling moth European grapevine moth leafminers leafrollers light brown apple moth oriental fruit moth thrips tufted apple budmoth	6	10	7
<b>asparagus</b> (post-harvest to protect ferns)	asparagus beetles	3	7	60
<b>bulb vegetables</b> including dry bulb onion, garlic, great-headed (elephant) garlic, green onion, leek, shallot, and welch onion	armyworms dipteran leafminers European corn borer flea beetle loopers thrips (suppression)	5	4	1
<b>bushberries</b> including blueberry, currant, elderberry, gooseberry, huckleberry, juneberry, lingonberry, and salal	armyworms European grapevine moth fireworms fruitfly (suppression) fruitworms leafrollers light brown apple moth loopers thrips	6	6	3
<b>caneberries</b> including blackberry, black raspberry, loganberry, red raspberry, and cultivars and/or hybrids of these	armyworms European grapevine moth fireworms fruitworms leafrollers light brown apple moth loopers sawfly	6	5	1
<b>citrus trees</b> including grapefruit, lemons, limes, oranges, and tangerines (to prevent fruit scaring from thrips, treat when fruit is marble size)	katydids leafminers thrips worms (caterpillars)	6	6	1
<b>cole crops (Brassica vegetables)</b> including broccoli, broccoli raab, Brussels sprouts, cabbage, cauliflower, cavalo, Chinese broccoli, Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, and	armyworms cabbage looper diamondback moth flea beetle (suppression) imported cabbage worm leafminers thrips worms (caterpillars)	6	4	1

rape greens				
<b>cucurbits</b> including cucumber, edible gourds, muskmelons (cantaloupe, honeydew, etc.), pumpkin, summer and winter squash, and watermelon	armyworm leafminers loopers thrips worms (caterpillars)	6	5	all except cucumber, 3 cucumber, 1
<b>dates</b>	carob moth	3	7	7
<b>fruiting vegetables</b> including eggplant, groundcherry, okra, pepino, pepper, tomatillo, and tomato	Colorado potato beetle European corn borer flea beetle leafminers loopers thrips worms (caterpillars)	6	4	1
<b>grape</b>	European grapevine moth leafrollers light brown apple moth thrips worms (berry moth)	6	5	7
<b>leafy and dried herbs</b> including angelica, balm, basil, borage, burnet, camomile, catnip, chervil (dried), chive, chive (Chinese), cilantro, cilantro (leaf), clary, coriander (leaf), costmary, curry (leaf), dillweed, horehound, hyssop, lavender, lemongrass, lovage (leaf), marigold, marjoram, nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage, savory (summer and winter), sweet bay, tansy, tarragon, thyme, wintergreen, woodruff, and wormwood	leafminers loopers thrips worms (caterpillars)	5	5	1
<b>leafy vegetables</b> including amaranth, arugula, cardoon, celery, celtuce, chervil, Chinese celery, Chinese spinach, corn salad, dandelion, dock, edible-leaved chrysanthemum, endive (escarole), Florence fennel, garden cress, garden purslane, garland chrysanthemum, head lettuce, leaf lettuce, leafy amaranth, New Zealand spinach, orach, parsley, radicchio (red chicory), rhubarb, spinach, Swiss chard, tampala, upland cress, vine spinach, watercress, winter cress, winter purslane, and yellow rocket	diamondback moth leafminers loopers thrips worms (caterpillars)	6	4	1
<b>leaves of root and tuber vegetables</b> including bitter cassava, black salsify, carrot,	diamondback moth leafminers loopers	6	4	1

14/17

celeriac (celery root), chicory, dasheen (taro), edible burdock, garden beet, oriental radish (daikon), parsnip, radish, rutabaga, sugar beet, sweet cassava, sweet potato, taniel, true yam, turnip, turnip greens, and turnip-rooted chervil	thrips worms (caterpillars)			
<b>peppermint and spearmint</b>	armyworms cutworms leafminers loopers thrips (suppression)	4	4	7
<b>pomegranate</b>	fruit fly leafrollers moths naval orangeworm peach twig borer thrips	3	10 - 14	7
<b>potatoes, tuberous and corm vegetables</b> including arracacha, arrowroot, artichoke, bitter cassava, chayote root, Chinese artichoke, chufa, dasheen, edible canna, ginger, Jerusalem artichoke, leren, potato, sweet cassava, sweet potato, taniel, true yam, turmeric, and yam bean	artichoke plume moth Colorado potato beetle corn borers leafminers loopers thrips worms (caterpillars)	6	7	artichoke, 2 all others, 7
<b>root vegetables</b> including black salsify, carrot, celeriac, chicory, edible burdock, garden beet, ginseng, horseradish, oriental radish, parsnip, radish, rutabaga, salsify, skirret, Spanish salsify, sugar beet, turnip, turnip-rooted chervil, turnip-rooted parsley	armyworms European corn borer flea beetle leafminers loopers thrips	3	7	3
<b>spices</b> including allspice, anise (seed), annatto (seed), black caraway, caper (buds), caraway, cardamom, cassia (buds), celery (seed), cinnamon, clove (buds), common fennel, coriander (seed), culantro (seed), cumin, dill (seed), Florence fennel (seed), fenugreek, grains of paradise, juniper (berry), lovage (seed), mace, mustard (seed), nutmeg, poppy (seed), saffron, star anise, vanilla, and white pepper	flea beetle leafminers thrips	5	10	14
<b>stone fruits</b> including apricot, cherries, nectarine, peach, plum, and prune	borers European grapevine moth fruit flies fruitworm leafminers	6	7	apricot, all except cherry peach, plum, prune, nectarine, 14 cherry, plum,

15/17

	leafrollers light brown apple moth oriental fruit moth thrips worms (caterpillars)			prune, 7 nectarine, peach, 1
<b>strawberry</b>	armyworms European grapevine moth leafrollers light brown apple moth thrips	5	5	1
<b>succulent and dried beans and peas</b> including adzuki bean, blackeyed pea, chickpea, cowpea, crowder pea, edible-pod pea, English pea, fava bean, field bean, field pea, garbanzo bean, garden pea, green pea, kidney bean, lentil, lima bean, lupins, mungbean, navy bean, pigeon pea, pinto bean, runner bean, snap bean, snow pea, sugar snap pea, tepary bean, wax bean, and yardlong bean	borers leafminers loopers thrips worms (caterpillars)	6	5	succulent, 3 dried, 28
<b>sweet corn and popcorn</b> (for earworms, treat silk frequently as it grows)	corn borers earworm worms (caterpillars)	6	3	1
<b>tree nuts</b> including almonds, cashew, chestnut, filbert (hazelnut), macadamia, pecans, pistachio, and walnuts	codling moth filbert worm husk fly (suppression) leafrollers light brown apple moth navel orangeworms peach twig borer pecan nut casebearer redhumped caterpillar shuckworms webworms	5	7	1
<b>tropical tree fruits</b> including, acerola, atemoya, avocado, biriba, black sapote, canistel, cherimoya, custard apple, feijoa, guava, ilama, jaboticaba, longan, lychee, mamey sapote, mango, papaya, passionfruit, pulasan, rambutan, sapodilla, soursop, Spanish lime, star apple, starfruit, sugar apple, ti leaves, wax jambu (wax apple), and white sapote	suppression of European grapevine moth katydids light brown apple moth thrips worms (caterpillars)	4	7	1
<b>all crops listed in this table</b>	fire ants	See application directions in Lawns and Ornamentals		

### Lawns and Ornamentals

Use Site	Pests Controlled	Directions
----------	------------------	------------

16/17

lawns	worms, including small (<3/4") armyworm, and sod webworm cat fleas (suppression only)	Mix the amount of Spinosad 0.5% SC specified per gallon of spray and uniformly apply a minimum of 3 gallons of spray per 1000 sq ft of area. Delay watering or mowing for 12 to 24 hours after application. <b>Armyworms:</b> For best results, apply in early morning or late afternoon. <b>Cat fleas:</b> Apply early or late in the day since control requires contact with dilute spray before drying. Thorough coverage is necessary. Reapply in 7 to 14 days to control adults that have emerged from pupae present at time of initial treatment.
outdoor ornamentals (herbaceous and woody plants)	emerald ash borer <sup>1</sup> gall midges leaf feeding beetles leafminers sawfly larvae spider mites <sup>2</sup> thrips worms including loopers, webworms, bagworms, gypsy moth, and tent caterpillars	Mix the amount of Spinosad 0.5% SC specified per pint, quart or gallon of spray and uniformly spray foliage to point of runoff. Uniform coverage of upper and lower leaf surfaces is essential for effective insect control.
lawns, ornamentals, home gardens (see listed crops in previous table) and other outdoor areas	fire ants	<b>Individual fire ant mounds:</b> Mix the amount of Spinosad 0.5% SC specified per gallon of spray and use a sprinkler can or similar device to apply the diluted spray as a mound drench, using 1 to 2 gallons per mound. Do not use pressurized sprays. Apply about 10% of the spray volume around the perimeter of the mound and the remainder directly to the mound. Do not disturb fire ant mound prior to application. If possible, apply following recent rainfall. For best results apply when weather is cool, 65 to 85°F, or in early morning or late evening.

<sup>1</sup>Mix 5 fl oz of Spinosad 0.5% SC per gallon of spray and apply to foliage and bark of the tree when adult emerald ash borer are first observed emerging from the bark or when adult emerald ash borer are first noticed feeding on the leaves of the tree. Reapply every 7 to 10 days until no additional adult emerald ash borer activity is observed. Applications to trees already heavily infested may not prevent the eventual loss of the tree due to existing pest damage.

<sup>2</sup>Apply when spider mites are first observed prior to webbing and before mite populations have become severe. Reapply after 7 to 10 days (3 to 5 days in greenhouses and structures that can be altered to be closed or open) to contact newly hatched nymphs and repeat until infestation is managed. **Uniform coverage of both upper and lower leaf surfaces is critical.** Addition of a nonionic spray adjuvant at 0.1% v/v has been shown to enhance control of spider mites (follow surfactant manufacturer's label directions).

### Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.



17/17

---

**Warranty Disclaimer**

---

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT PERMITTED BY LAW, SELLER MAKES NO OTHER EXPRESS NOR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

---

**Inherent Risks of Use**

---

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Seller. All such risks shall be assumed by Buyer.

---

**Limitation of Remedies**

---

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Seller's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent permitted by law, Seller shall not be liable for losses or damages resulting from handling or use of this product unless Seller is promptly notified of such loss or damage in writing. In no case shall Seller be liable for consequential or incidental damages or losses.

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 sales agent of the Seller or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or Limitation of Remedies in any manner.

EPA accepted \_\_\_/\_\_\_/\_\_\_