

  
**Natural  
GUARD**  
by Brand  
**ferti-lome**



# Spinosad

BAGWORM, TENT CATERPILLAR AND CHEWING INSECT CONTROL

*Ready to Spray*

- Do It Yourself Home Garden Insect Control
- For Residential Use In Home Gardens, Lawns and Ornamentals
- For Control Of Foliage Feeding Worms, Thrips And Other Listed Pests
- Provides Control Of Spider Mites, Worms, Fire Ants And Thrips

## KEEP OUT OF REACH OF CHILDREN

Refer to label booklet for additional  
precautionary information including  
Directions for Use

### ACTIVE INGREDIENTS:

Spinosad (A mixture of Spinosyn A and Spinosyn D)	0.5%
OTHER INGREDIENTS:	99.5%
TOTAL:	100.00%

Contains 0.04 lb. of active ingredient per gallon.  
U.S. Patent No. 5,362,634 and 5,496,931

**NET CONTENTS ONE QUART (32 FL. OZ. / 946 ML)**

Natural Guard by ferti•lome® Spinosad Ready-to Spray

**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 booklet.** If terms are unacceptable, return at once unopened.

### 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, lawn and ornamentals. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.**

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

Manufactured By:  
*Voluntary  
Purchasing  
Groups, Inc.*  
**VPG**  
230 FM 87

BONHAM, TEXAS 75418  
EPA Reg. No. 62719-314-7401  
EPA Est. 7401-TX-01  
Visit Us At: [www.fertilome.com](http://www.fertilome.com)  
855-270-4776



PEEL FROM CORNER OF BOOKLET

• For Residential Use in Home Gardens, Lawns, and Ornamentals



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## 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.

**Natural Guard by ferti•lome® Spinosad** is intended for control of Worms (Caterpillars) and other listed Insects. **Natural Guard by ferti•lome® Spinosad** 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 **Natural Guard by ferti•lome® Spinosad** 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†	Amount of Natural Guard by ferti•lome® Spinosad 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.	2.0 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.

†Conversion factors: 1 fl. oz. = 30 ml. = 2 tablespoons (Tbs.) = 6 teaspoons (tsp.) (1 teaspoon = 1/3 tablespoon)

## HOW TO APPLY

### Shake Well Before Use

**Natural Guard by ferti•lome® Spinosad** 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 **Natural Guard by ferti•lome® Spinosad** (4 Tbs.) per gallon of spray.

See Hose-End Sprayer Directions below.

### HOSE-END SPRAYER DIRECTIONS

The sprayer attached to the container is ready-to-use. Refer to fill level markings on side panel of the container to determine the amount of product used. Simply attach to the garden hose and follow these simple instructions:

1. Turn on water.
2. Hold sprayer and container level and point towards area to be sprayed.
3. Bend tab back and turn knob to ON.
4. Begin spraying product evenly over the area you wish to treat.
5. To stop spraying, turn knob to OFF.
6. Turn off water.
7. Refer to Storage and Disposal statement on label for additional information.

## 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 this product to: Broccoli Raab, Chinese Cabbage (Bok Choy), Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens.

## HOME GARDEN TREATMENT RECOMMENDATIONS

Crops	Pests Controlled	Maximum Number of Applications per Calendar Year	Minimum Days to Wait before Reapplying	Minimum Days to Wait from Last Application to Harvest
<b>Apple and other pome Fruits</b> including: Crabapples, 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

## HOME GARDEN TREATMENT RECOMMENDATIONS (Continued)

Crops	Pests Controlled	Maximum Number of Applications per Calendar Year	Minimum Days to Wait before Reapplying	Minimum Days to Wait from Last Application to Harvest
<b>Citrus Trees</b> , including: Grapefruit, Lemons, Limes, Oranges, and Tangerines (to prevent fruit scaring from Thrips, treat when fruit is marble size)	Katydid Leafminers Thrips Worms (Caterpillars)	6	6	1
<b>Cole Crops (Brassica Vegetables)</b> , including: Broccoli, Broccoli Raab, Brussels Sprouts, Cauliflower, Cavalo, Chinese Broccoli, Cabbage, Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Gai Choy), Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, and Rape Greens	Armyworms Cabbage Looper Diamondback Moth Flea Beetle (suppression) Imported Cabbage Worm Leafminers Thrips Worms (Caterpillars)	6	4	1

**HOME GARDEN TREATMENT RECOMMENDATIONS**

(Continued)

<b>Crops</b>	<b>Pests Controlled</b>	<b>Maximum Number of Applications per Calendar Year</b>	<b>Minimum Days to Wait before Reapplying</b>	<b>Minimum Days to Wait from Last Application to Harvest</b>
<b>Cucurbits</b> , including: Cucumber, Edible Gourds, Muskmelons, (Cantelope, 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, Ground Cherry, 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



## HOME GARDEN TREATMENT RECOMMENDATIONS

(Continued)

Crops	Pests Controlled	Maximum Number of Applications per Calendar Year	Minimum Days to Wait before Reapplying	Minimum Days to Wait from Last Application to Harvest
<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: Arugula, Celery, Chervil, Corn Salad, Cress, Dandelion, Dock, Edible Chrysanthemum, Endive, Fennel, Garden Purslane, Head and Leaf Lettuce, Parsley, Radichio, Rhubarb, Spinach, and Swiss Chard	Diamond-back Moth Leafminers Loopers Thrips Worms (Caterpillars)	6	4	1

**HOME GARDEN TREATMENT RECOMMENDATIONS**

(Continued)

<b>Crops</b>	<b>Pests Controlled</b>	<b>Maximum Number of Applications per Calendar Year</b>	<b>Minimum Days to Wait before Reapplying</b>	<b>Minimum Days to Wait from Last Application to Harvest</b>
<b>Stone Fruits,</b> including: Apricot, Cherries, Nectarine, Peach, Plum, and Prune	Borers European Grapevine Moth Fruit Flies Fruitworm Leafminers Leafrollers Light Brown Apple Moth Oriental Fruit Moth Thrips Worms (Caterpillars)	6	7	Peach, Apricot, all except Cherry, Plum, Prune, Nectarine, 14 Cherry, Plum and Prune, 7 Nectarine, 1
<b>Strawberry</b>	Armyworms Leafrollers Thrips	5	5	1
<b>Succulent and Dried Beans and Peas,</b> including: Blackeyed Pea, Garbanzo Bean, Garden Pea, Lima Bean, Snap Bean, and Snow Pea.	Borers Leafminers Loopers Thrips Worms (Caterpillars)	6	5	Succulent, 3 Dried, 28

## HOME GARDEN TREATMENT RECOMMENDATIONS (Continued)

Crops	Pests Controlled	Maximum Number of Applications per Calendar Year	Minimum Days to Wait before Reapplying	Minimum Days to Wait from Last Application to Harvest
<b>Sweet Corn and Popcorn</b> (for Earworms, treat silk frequently as it grows)	Corn Borers Worms (Caterpillars), including Earworm	6	3	1
<b>Tree Nuts,</b> including: Almonds, Cashew, Chestnut, Macadamia, Pecans, Pistachio, and Walnuts	Codling Moth Filbert Worm Husk Fly (suppression) Leafrollers Light Brown Apple Moth Navel Orange worms Peach Twig Borer Pecan Nut Casebearer Redhumped Caterpillar Shuckworms Webworms	5	7	1

## HOME GARDEN TREATMENT RECOMMENDATIONS (Continued)

Crops	Pests Controlled	Maximum Number of Applications per Calendar Year	Minimum Days to Wait before Reapplying	Minimum Days to Wait from Last Application to Harvest
<b>Tropical Tree Fruits:</b> Atemoya, Avocado, Cherimoya, Custard Apple, Guava, Longan, Lychee, Mango, Papaya, Passionfruit, Rambutan, Sapodilla, White Sapote, Star Apple, Star Fruit, and Wax Jambu	Suppression of European Grapevine Moth Katydid Light Brown Apple Moth Thrips Worms (Caterpillars)	4	7	1
<b>Potatoes, Tuberous and Corn Vegetables,</b> including: Cassava, Chayote Root, Chinese Artichoke, Ginger, Jerusalem Artichoke, Potatoes, Sweet Potatoes, Tumeric, and Yams	Artichoke Plume Moth Colorado Potato Beetle Corn Borers Leafminers Loopers Thrips Worms (Caterpillars)	6	7	Artichoke, 2 All others, 7
<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
Lawns	Worms, including small (<3/4") Armyworm, and Sod Webworm Cat Fleas (Suppression only)	Mix the amount of <b>Natural Guard by ferti•lome® Spinosad</b> specified per gallon of spray and uniformly apply a minimum of 3 gallons of spray per 1,000 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 <b>Natural Guard by ferti•lome® Spinosad</b> 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 AND ORNAMENTALS**  
(Continued)

Use Site	Pests Controlled	Directions
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 <b>fNatural Guard by ferti•lome® Spinosad</b> 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 this product 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 recommendations).

## **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.

## **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 this 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 this Limitation of Remedies in any manner.



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