

SPLIVEN™



Insect Control Product

 **FOR ORGANIC GARDENING**

FOR RESIDENTIAL USE IN HOME GARDENS, LAWNS AND ORNAMENTALS.

Provides control of:

- spider mites
- worms
- Colorado potato beetle
- fire ants
- thrips

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.

EPA Reg. No.: 91234-263

KEEP OUT OF REACH OF CHILDREN

**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 below for additional Precautionary Statements.

For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

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

PRECAUTIONARY STATEMENTS

Environmental Hazards

This pesticide is toxic to aquatic invertebrates.

Applying this product when rain is not predicted for the next 24 hours will help reduce potential risk to aquatic invertebrates by reducing pesticide runoff from the treatment area into water bodies.

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.

Physical or Chemical Hazards

Do not mix or allow to come in contact with any oxidizing agent. Hazardous chemical reaction may occur.

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.

Shake Well Before Use – Avoid Freezing

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.

Spliven insect control product is intended for control of worms (caterpillars) and other listed insects. **Spliven** 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.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

How to Mix

Add the required amount of **Spliven** 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. Utensils used for measuring this product should not be used for other purposes.

| Unit of Measure ¹ | Amount of Spliven 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 |
| Tablespoons (Tbs) | ½ Tbs | 1 Tbs | 4 Tbs |

¹ Conversion factors. 2 tablespoons (Tbs) = 6 teaspoons (tsp)

How to Apply

Shake Well Before Use

Spliven 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 **Spliven** (4 Tbs) per gallon of spray.

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 **Spliven** to: broccoli raab, Chinese cabbage (bok choy), collards, kale, mizuna, mustard greens, mustard spinach, rape greens.

| 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 |
|---|---|--|--|---|
| apple and other pome fruits 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 |
| asparagus (post-harvest to protect ferns) | asparagus beetles | 3 | 7 | 60 |
| bulb vegetables 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 |

(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 |
|--|---|--|--|---|
| bushberries including blueberry, currant, elderberry, gooseberry, huckleberry, junberry, lingonberry, and salal | armyworms European grapevine moth fireworms fruitfly (suppression) fruitworms leafrollers light brown apple moth loopers thrips | 6 | 6 | 3 |
| caneberries 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 |
| citrus trees 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 |
| cole crops (<i>Brassica</i> vegetables) including broccoli, broccoli raab, Brussel sprouts, cabbage, cauliflower, cavalo broccolo, Chinese broccoli, 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 |
| cucurbits 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 |
| dates | carob moth | 3 | 7 | 7 |
| fruiting vegetables 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 |
| grape | European grapevine moth leafrollers light brown apple moth thrips worms (berry moth) | 6 | 5 | 7 |
| leafy and dried herbs including angelica, balm, basil, borage, burnet, chamomile, 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 |
| leafy vegetables 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 |

(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 |
|---|---|--|--|--|
| leaves of root and tuber vegetables including bitter cassava, black salsify, carrot, celeriac (celery root), chicory, dasheen (taro), edible burdock, garden beet, oriental radish (daikon), parsnip, radish, rutabaga, sugar beet, sweet cassava, sweet potato, tanager, true yam, turnip, turnip greens, and turnip-rooted chervil | diamondback moth leafminers loopers thrips worms (caterpillars) | 6 | 4 | 1 |
| peppermint and spearmint | armyworms cutworms leafminers loopers thrips (suppression) | 4 | 4 | 7 |
| pomegranate | fruit fly leafrollers moths naval orangeworm peach twig borer thrips | 3 | 10-14 | 7 |
| Potatoes, tuberous and corm vegetables including arracacha, arrowroot, artichoke, bitter cassava, chayote root, Chinese artichoke, chufa, dasheen, edible canna, ginger, Jerusalem artichoke, loren, potato, sweet cassava, sweet potato, tanager, 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 |
| root vegetables 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 |
| spices 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 |
| stone fruits 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 | apricot, all except cherry peach, plum, prune, nectarine: 14 cherry, plum, prune: 7 nectarine, peach: 1 |
| strawberry | armyworms European grapevine moth leafrollers light brown apple moth thrips | 5 | 5 | 1 |
| succulent and dried beans and peas 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 |
| sweet corn and popcorn (for earworms, treat silk frequently as it grows) | corn borers earworm worms (caterpillars) | 6 | 3 | 1 |

(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 |
|--|---|---|--|---|
| tree nuts 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 |
| Tropical tree fruits including, acerola, atemoya, avocado, biriba, black sapote, canistel, cherimoya, custard apple, feijoa, guava, ilama, jaboticaba, longan, lychee, mamey sapote, mango, payaya, 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 katydid light brown apple moth thrips worms (caterpillars) | 4 | 7 | 1 |
| all crops listed in this table | 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 Spliven 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. Armyworms: For best results, apply in early morning or late afternoon. Cat fleas: 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 ¹ gall midges leaf feeding beetles leafminers sawfly larvae spider mites ² thrips worms including loopers, webworms, bagworms, gypsy moth, and tent caterpillars | Mix the amount of Spliven 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 | Individual fire ant mounds: Mix the amount of Spliven specified per gallon of spray and use on 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. |

¹Mix 5 fl oz of **Spliven** per gallon of spray and apply to foliage and bark of the tree when adult emerald ash borers are first observed emerging from the bark or when adult emerald ash borers 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.

²Apply 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).

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 (984)465-4754 for disposal instructions. Never place unused product down any indoor or outdoor drain.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

Spliven is a trademark of Atticus, LLC

20240117ap1

SPECIMEN

