

# CAPTAIN JACK'S DEADBUG BREW CONCENTRATE

**FOR RESIDENTIAL USE IN HOME GARDENS, LAWNS AND ORNAMENTALS  
FOR CONTROL OF FOLIAGE FEEDING WORMS (CATERPILLARS), THRIPS  
AND OTHER LISTED PESTS IN:**

- **FRUITING VEGETABLES, SUCH AS TOMATO, PEPPER, OKRA AND EGGPLANT**
- **CUCURBITS, SUCH AS CANTALOUPE AND HONEYDEW**
- **COLE CROPS (BRASSICA), SUCH AS BROCCOLI, CABBAGE AND CAULIFLOWER**
- **LEAFY VEGETABLES, SUCH AS LETTUCE, SPINACH AND CELERY**
- **TUBEROUS VEGETABLES, SUCH AS POTATOES, SWEET POTATOES, YAMS,  
JERUSALEM ARTICHOKE, CHINESE ARTICHOKE AND CASSAVA**
- **STONE FRUITS, SUCH AS PEACHES, PLUMS, CHERRIES, NECTARINES,  
PRUNES AND APRICOTS**
- **APPLE AND OTHER POME FRUITS, SUCH AS PEARS, CRABAPPLES,  
MAYHAW AND QUINCE**
- **BUSHBERRIES AND CANEBERRIES, SUCH AS BLUEBERRY, BLACKBERRY  
AND RASPBERRY**

For Outdoor Residential Use Only.

Store and transport in an upright position.

EPA Est. No. 4-NY-1 EPA Reg. No. 4-471

Buyers Guarantee Limited to Label Claims.

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## 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.**

This insect control product is intended for control of worms (caterpillars) and other listed insects. This product 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. Spinosad is classified as an organic substance by the USDA National Organic Standards Board.

Captain Jack's DEADBUG Brew® contains Spinosad "spin-OH-sid". Spinosad is derived from a naturally occurring soil dwelling bacterium that was collected from an abandoned rum distillery on a Caribbean island in 1982. This unique bacterium was defined as a new species when it was discovered and it has never been found in nature anywhere else in the world. Since being discovered, Spinosad has become a leading pesticide used by agriculture world wide in the production of organic produce. Today, thanks to Captain Jack's DEADBUG Brew®, Spinosad is available to the homeowner.

## HOW TO MIX

Add the required amount of this product to the recommended amount of water, mix thoroughly, and apply uniformly to both upper and lower surfaces of plant foliage. It is recommended to mix only as much spray as needed for a single treatment. In vegetable gardens it is recommended to use not 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 this product 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)	½ Tbs	1Tbs	4 Tbs
Teaspoons (tsp)	1 ½ 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)

## HOW TO APPLY

### **Shake Well Before Use**

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

<b>Crops</b>	<b>Pests Controlled</b>	<b>Maximum Number of Applications per Season</b>	<b>Minimum Days to Wait Before Reapplying</b>	<b>Minimum Days to Wait from Last Application to Harvest</b>
<b>apple and other pome fruits</b> including, but not limited to: crabapples, mayhaw, pears, and quince	codling moth leafminers leafrollers oriental fruit moth tufted apple budmoth	6	10	7
<b>asparagus</b> (post-harvest to protect ferns)	asparagus beetles	4	7	60
<b>bushberries and caneberries</b> , including, but not limited to: blackberry, blueberry, currant, elderberry, gooseberry, huckleberry, juneberry, lingonberry, loganberry, raspberry, and salal	armyworms fireworms fruitfly (suppression) fruitworms leafrollers loopers thrips	6	6	3
<b>citrus trees</b> , including, but not limited to: grapefruit, lemons, limes, oranges, and tangerines (to prevent fruit scarring from thrips, treat when fruit is marble size)	katydid leafminers thrips worms (caterpillars)	6	6	1

Crops	Pests Controlled	Maximum Number of Applications per Season	Minimum Days to Wait Before Reapplying	Minimum Days to Wait from Last Application to Harvest
<p><b>cole crops (Brassica vegetables)</b>, including, but not limited to: 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</p>	<p>cabbage looper diamondback moth imported cabbage worm leafminers worms</p>	6	4	1
<p><b>cucurbits</b>, including, but not limited to: cucumber, edible gourds, muskmelons (cantaloupe, honeydew, etc.), pumpkin, summer and winter squash, and watermelon</p>	<p>leafminers thrips worms (caterpillars)</p>	6	5	all except cucumber, 3 cucumber, 1
<p><b>fruiting vegetables</b>, including, but not limited to: eggplant, ground cherry, okra, pepino, pepper, tomatillo, and tomato</p>	<p>Colorado potato beetle leafminers thrips worms (caterpillars)</p>	6	4	1

Crops	Pests Controlled	Maximum Number of Applications per Season	Minimum Days to Wait Before Reapplying	Minimum Days to Wait from Last Application to Harvest
grape	leafrollers thrips worms (berry moth)	6	5	7
leafy and dried herbs	leafminers thrips worms (caterpillars)	5	7	1
leafy vegetables, including, but not limited to: arugula, celery, chervil, corn salad, cress, dandelion, dock, edible chrysanthemum, endive, fennel, garden purslane, head and leaf lettuce, parsley, radicchio, rhubarb, spinach, and Swiss chard	leafminers worms (caterpillars)	6	4	1
stone fruits, including, but not limited to: apricots, cherries, nectarines, peaches, plums, and prunes	borers fruit flies Japanese beetle leafminers leafrollers thrips worms (caterpillars)	6	7	peach, apricot, all except cherry plum, prune, nectarine, 14 cherry, plum and prune, 7 nectarine, 1
strawberry	armyworms leafrollers thrips	6	5	1

Crops	Pests Controlled	Maximum Number of Applications per Season	Minimum Days to Wait Before Reapplying	Minimum Days to Wait from Last Application to Harvest
<p><b>succulent beans and peas</b>, including, but not limited to: blackeyed pea, garbanzo bean, garden pea, lima bean, snap bean, and snow pea</p>	<p>borers Japanese beetle leafminers thrips worms (caterpillars)</p>	6	5	3
<p><b>sweet corn and popcorn</b> (for earworms, treat silk frequently as it grows)</p>	<p>corn borers worms (caterpillars), including earworm</p>	6	3	1
<p><b>tree nuts</b>, including, but not limited to: almonds, cashew, chestnut, macadamia, pecans, pistachio, and walnuts</p>	<p>husk fly (suppression) leafrollers navel orangeworms peach twig borer shuckworms webworms</p>	5	7	14
<p><b>tree fruits</b>, including but not limited to: atemoya, avocado, cherimoya, custard apple, guava, longan, lychee, mango, papaya, passionfruit, rambutan, sapodilla, sapote, star apple, star fruit, and wax jambu</p>	<p>suppression of worms or caterpillars, thrips, and katydids</p>	4	7	1
<p><b>tuberous and corm vegetables</b>, including, but not limited to: cassava, chayote root, Chinese artichoke, ginger, Jerusalem artichoke, potatoes, sweet potatoes, turmeric, and yams</p>	<p>Colorado potato beetle corn borers leafminers thrips worms (caterpillars)</p>	6	7	7

Crops	Pests Controlled	Maximum Number of Applications per Season	Minimum Days to Wait Before Reapplying	Minimum Days to Wait from Last Application to Harvest
all crops listed in this table	fire ants	See application directions in Lawns and Ornamentals		

### LAWNS AND ORNAMENTALS

Use Site	Pests Controlled	Comments
lawns	worms, including small (<sup>3/4</sup>") armyworm, and sod webworm cat fleas (suppression only)	Mix the amount of this product recommended 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 (including Japanese beetle) leafminers sawfly larvae spider mites <sup>2</sup> thrips worms, including loopers, webworms, bagworms, gypsy moth, and tent caterpillars	Mix the amount of this product recommended 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 Cont.

Use Site	Pests Controlled	Comments
lawns, ornamentals, home gardens (see listed crops in previous table) and other outdoor areas	fire ants	<p><b>Individual fire ant mounds:</b> Mix the amount of this product recommended 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.</p>

<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, such as Bonide Turbo Spreader Sticker at 0.1% v/v has been shown to enhance control of spider mites (follow surfactant manufacturer's label recommendations).

### 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.

**Pesticide Disposal:** *If partly filled:* Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** *If empty:* Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or place in trash.

### 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. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not put product or rinse water down drain.

### PHYSICAL OR CHEMICAL HAZARDS

**Combustible.** Do not use or store near heat or open flame.

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents) call the National Pesticide Information Center at 1-800-858-7378.

## LIMITED WARRANTY AND DISCLAIMER

Seller warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Seller makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller shall have no liability for consequential damages.