



Insecticide • Miticide

LICENSED

PERIOD 2015-2017 LIC. NO. **9093.8**

- Effective against a wide variety of listed insects
- Contains Spinosad

ACTIVE INGREDIENTS:

Potassium salts of fatty acids.....	18.8%
Spinosad (a mixture of spinosyn A and spinosyn D).....	0.1%
Other ingredients:.....	81.1%
Total:.....	100.0%

Contains 0.0085 lbs Spinosad and 1.6 lbs potassium salts of fatty acids per gallon of concentrate.

EPA Reg. No. 67702-44-48813

EPA Est. No. 48498-CA-1

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call the poison control center at 1-800-222-1212.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS:

Handlers who may be exposed to the diluted product through application or other tasks must wear:

- Protective eyewear (goggles, face shield, or safety glasses),
- Long-sleeved shirt and long pants,
- Shoes plus socks.

Handlers who may be exposed to the concentrate through mixing, loading, application, and other tasks must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride and vitron.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on the label.

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. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted-entry interval, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated area during the restricted-entry interval of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants,
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride and vitron,
- Chemical-resistant footwear and socks,
- Protective eyewear, and
- Chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural workers (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter or allow others to enter the treated area until sprays have dried.

PRECAUTIONS

Insecticide Resistance Management (IRM)

BRANDT BITEK contains spinosad, a Group 5 insecticide. Insect/mite biotypes with acquired resistance to Group 5 insecticides may eventually dominate the insect/mite population if Group 5 insecticides are used repeatedly in the same field or area, or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by BRANDT BITEK or other Group 5 insecticides. Currently, only spinetoram and spinosad active ingredients are classified as Group 5 insecticides. These two insecticide active ingredients share a common mode of action and must not be rotated with each other for control of pests listed on this label. Spinetoram and spinosad may be rotated with all other labeled insecticide active ingredients.

To delay development of insecticide resistance, the following practices are recommended:

- Carefully follow the specific label guidelines within the use directions sections of this label, especially in regard to IRM recommendations.
- Avoid use of the same active ingredient or mode of action (same insecticide group) on consecutive generations of insects. However, multiple applications to reduce a single generation are acceptable. Treat the next generation with a different active ingredient that has a different mode of action or use no treatment for the next generation.
- Avoid using less than labeled rates of any insecticide when applied alone or in tank mixtures.
- Applications should be targeted against early insect developmental stages whenever possible.
- Base insecticide use upon comprehensive IPM programs including crop rotations.
- Monitor treated insect populations in the field for loss of effectiveness.
- Contact your local extension specialist, certified crop advisor, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.

DIRECTIONS FOR MIXING

To make a 5% dilution, mix 5 gal of product/100 gal of water. Add sufficient water to the mixing tank to allow proper agitation by pump or paddles. Continue stirring while adding first the BRANDT BITEK then the remaining water.

Hard water in excess of 300 ppm should be conditioned to reduce its hardness prior to mixing with BRANDT BITEK.

APPLICATION INSTRUCTIONS

For field applications apply a 5% dilution at a rate of 50-200 gal/acre using ground spray equipment. For best results commence treatment when infestation is first noticed. Thoroughly spray insect pests on plants with diluted product to wetting. Minimize run-off to reduce plant injury on sensitive plants.

Application Rate Reference Table:

Contains 0.0085 lbs Spinosad and 1.6 lbs potassium salts of fatty acids per gallon of concentrate.

Use the following table to assist in calculating the applied active ingredient spinosad per acre in diluted spray.

Application Rate of Diluted Spray (gal/ ac)	Spinosad Equivalent (lb ai /acre)
50	0.021
60	0.026
70	0.030
80	0.034
90	0.038
100	0.043
110	0.047
120	0.051
130	0.055
140	0.060
150	0.064
180	0.077
200	0.085

PESTS/SITES

Insects: This product will control pests such as: Asian Citrus Psyllid, adelgids (woolly aphids), ants (excluding fire ants, harvester ants, Pharaoh's ants and carpenter ants), aphids, armyworms, beetles, caterpillars, chinch bugs, earwigs, gypsy moth, lace bugs, leafhoppers, leafminers, leafrollers, loopers, mealybugs, mites, mole crickets, plant bugs, psyllids, sawfly larvae (e.g. pear and rose slugs), scale insects, spider mites, tent caterpillars, thrips, webworms, weevils (including black vine weevil), whiteflies, and other listed pests below.

Powdery Mildew: This product provides curative control of powdery mildew. Apply a 2.5-5% solution of this product when the first signs of powdery mildew appear and repeat at 7-10 day intervals. This product must come into contact with powdery mildew to be effective. Complete coverage is essential for maximum control. In general, adequate coverage requires a minimum of 50 gallons of total spray volume per acre. Higher volumes may be required on larger perennial crops. Do not exceed crop-specific use restrictions listed below.

Turf, Grass Grown for Seed, Tree Plantations, Landscape Trees and Shrubs, Ornamentals (Herbaceous and Woody), Flowers and Bedding Plants

Site	Pest	Application Rate		Restrictions
		lb ai/ acre spinosad	gal spray solution/ acre	
Turfgrass (lawns, athletic field and recreational areas, commercial turf, sod, and golf courses)	Ants (excluding fire ants, harvester ants, Pharaoh's ants and carpenter ants), aphids, armyworms, cutworms, earwigs, grubs, mole crickets, sod webworms, chinch bugs, mites	0.077	180	Do not apply more than 3 times in any 21-day period. Do not make more than 6 applications per season. Do not make applications less than 7 days apart. Do not apply more than a total of 0.45 lb ai spinosad (including foliar uses) per acre per season.

Site	Pest	Application Rate		Restrictions
		lb ai/ acre spinosad	gal spray solution/ acre	
Grass crops, grass grown for seed production, pastures, rangeland, and non-crop areas (grass barrier strips and buffers around gardens, crop areas, and ornamentals; forests, parks, playgrounds, cemeteries, picnic areas, roadsides, campgrounds, industrial sites, fallow land)	Ants (excluding fire ants, harvester ants, Pharaoh's ants and carpenter ants), armyworms, cutworms, earwigs	0.030-0.060	70-140	Do not use within 3 days of harvest for hay or fodder. No preharvest interval for forage. Do not make more than 6 applications per season. Do not apply more than a total of 0.186 lb ai spinosad (including foliar uses) per acre per season.
Outdoor and greenhouse or ornamentals (herbaceous and woody), landscape trees and shrubs, flowers and bedding plants	Adelgids, ants (excluding fire ants, harvester ants, Pharaoh's ants and carpenter ants), aphids, buck moth larvae, earwigs, elm leaf beetle larvae, sawfly larvae (e.g. pear and rose slugs), gypsy moth eggs and larvae, Japanese beetles, lace bugs, leafhoppers, mealybugs, rust mites, phylloxera, spider mites, shore fly, plant bugs, psyllid, scale insects, tent caterpillars, exposed thrips, weevils, whitefly	0.026-0.085	60-200	Do not make applications less than 7 days apart. For greenhouses, see specific restrictions below. For tent caterpillars and gypsy moth eggs and larvae, apply at a rate of 3% formulation directly on larvae. See use restrictions for sensitive ornamental species. Do not apply more than a total of 0.45 lb ai spinosad (including foliar uses) per acre per year.

Tree Farms or Plantations (Conifers, including Christmas trees, and deciduous trees)	Adelgids, ants (excluding fire ants, harvester ants, Pharaoh's ants and carpenter ants), aphids, buck moth larvae, earwigs, elm leaf beetle larvae, European grapevine moths, Japanese beetles, lace bugs, leafhoppers, lepidopterous larvae (such as bagworm, fall webworm, Gypsy moth eggs and larvae, Hemlock loopers, jackpine budworms, pine tip moths, redhumped caterpillars, spruce budworms, tent caterpillars, tussock moths), light brown apple moths, mealybugs, rust mites, phylloxera, sawfly larvae (such as European pine, pear, redhead pine), spider mites, shore fly, plant bugs, psyllid, scale insects, tent caterpillars, exposed thrips, whitefly, Asian Citrus Psyllid	0.026-0.085	60-200	Do not apply more than a total of 0.45 lb ai spinosad per acre per year. Do not make more than 6 applications per calendar year. For tent caterpillars and gypsy moth eggs and larvae, apply at a rate of 3% formulation directly on larvae. Do not apply more than a total of 0.45 lb ai spinosad (including foliar uses) per acre per year.
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USE RESTRICTIONS

- Do not spray when plants are under stress.
- Do not apply to new seedlings and transplants without determining sensitivity (phytotoxicity) first.
- Do not spray during full sun. Spray early in morning or evening when overcast.
- Do not use within 3 days of a sulfur application.
- Do not apply to evergreens during drought and use caution when tender new foliage is present.
- Do not use on sweet peas, nasturtiums or delicate ferns.
- Poinsettias may be sensitive. Do not apply after coloring of bracts has begun.
- Use with care when used on azaleas, bleeding heart, camellia, corn, euphorbia, fuchsia, gardenia, geraniums, impatiens, hawthorn, horse chestnut, jade plant, Japanese maple, lantana, mountain ash, ornamental ivy, palms, succulents. Sensitivity varies with plant varieties.
- Use with care on blooms. Determine sensitivity before spraying. Poinsettias may be sensitive. Do not apply after coloring of bracts has begun.
- If concerned about sensitivity of plants, apply to individual plants or small areas and wait a couple of days to determine if plant damage occurs prior to treatment of larger areas.

GREENHOUSES

Make localized area treatments of ornamental plants where pest problems are anticipated to occur rather than general area-wide broadcast treatments. Apply a 5% dilution at a rate of 50-200 gal/acre. Do not apply this product more than 10 times per year inside a greenhouse. If this product is being used for thrips, leafminer, spider mite and/or diamondback moth control, do not apply more than 6 times per year inside a greenhouse.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store this product in its original container and keep in a secure storage area out of reach of children and domestic animals.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available.

WARRANTY

To the extent consistent with applicable law, seller warrants that this product conforms to the chemical description on this label and is reasonably fit for the purposes stated on this label only when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to use of this product contrary to label directions, or under abnormal use conditions, or under conditions not reasonably foreseeable to seller. To the extent consistent with applicable law, seller makes no other warranties, either expressed or implied. [N20150212]

NET CONTENTS: ___ gallons/ ___ liters



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BRANDT®

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