

70051-66

1 of 8



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

March 23, 2010

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Christine A. Dively
Director of Regulatory Affairs
CERTIS USA, LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046

RE: Product Name: Javelin WG
EPA Reg. No: 70051- 66
Application for Notification dated October 20, 2009, to add container reuse statement to the Storage and Disposal section as permitted by PR Notices 2007-4 and 2008-1.

Dear Ms. Dively,

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticides Registration Notice (PRN) 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the letter submitted with this application has been stamped "Notification, received and accepted" and will be placed accordingly in our records.

Questions concerning this action should be directed to Mary Paden (703) 308-0411 or email at paden.mary@epa.gov.

Sincerely,

Sheryl K. Reilly

Sheryl K. Reilly, Ph.D., Chief
Microbial Pesticides Branch
Biopesticides and Pollution Prevention
Division (7511P)

CONCURRENCES

SYMBOL	▶ 7511CP						
SURNAME	▶ Paden						
DATE	▶ 3-18-10						



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 70051-66	2. EPA Product Manager Microbial Pesticides Branch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Javelin WG	PM# 92	
5. Name and Address of Applicant (Include ZIP Code) Certis U.S.A., L.L.C. 9145 Guilford Road, Suite 175 Columbia, MD 21046 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: NOTIFICATION Accepted. <input checked="" type="checkbox"/> EPA Reg. No. _____ Date Reviewed: 03-18-10 Product Name _____ Reviewed By: [Signature]	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					Other (Specify) _____
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 or 5 pounds		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Christine Dively		Title Director, Reg. Affairs		Telephone No. (Include Area Code) 301-483-3806	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment of both under applicable law.					6. Date Application Received (Stamped)
2. Signature <i>Christine A. Dively</i>		3. Title Director of Regulatory Affairs			
4. Typed Name Christine Dively		5. Date October 20, 2009			



Certis USA
9145 Guilford Road
Suite 175
Columbia, MD 21046
(301) 604-7340
FAX: 301-604-7015
www.certisusa.com

October 20, 2009

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington DC 20460-0001

Re: Notification of label change per PR Notice 2007-4.

Certis U.S.A, L.L.C. respectfully submits the following change to the label for Javelin WG (EPA Registration Number 70051-66) to comply with the requirements of PR Notice 2007-4:

Container reuse statements were added to the Storage and Disposal section of the label.

No other changes were made to the label.

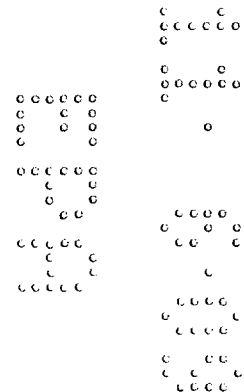
Enclosed in this submission are the following:

- Application for Registration – EPA Form 8570-1
- A copy of the final label

Please do not hesitate to contact me if you have any questions about this submission. I can be contacted by telephone at 301-483-3806 or by email at cdively@certisusa.com.

Respectfully,

Christine A. Dively
Director of Regulatory Affairs



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Javelin.WG

BIOLOGICAL INSECTICIDE

For Control of Insect Pests of Vegetables, Fruit and Field Crops

 FOR ORGANIC PRODUCTION



Active Ingredient:

<i>Bacillus thuringiensis</i> , subspecies <i>kurstaki</i> strain SA-11 solids, spores and Lepidopteran active toxins*	85.0%
Other Ingredients:	15.0%
TOTAL	<u>100.0%</u>

*The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See additional precautionary statements

FIRST AID

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

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.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. 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. Hot Line Number: 1-800-255-3924.

Net Contents:

EPA Reg. No. 70051-66
EPA Est. No. 70051-CA-001
Lot No.:

NOTIFICATION Accepted

Date Reviewed: 03-18-10
Reviewed By: m. J. Paden

Manufactured by
Certis USA, L.L.C.
9145 Guilford Road
Suite 175
Columbia, MD 21046



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

CAUTION
Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment:
Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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

Engineering Controls Statements:
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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
Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.
This product must not be applied aerially within 1/4 mile of any habitats of endangered or threatened Lepidoptera. No manual application can be made within 300ft. of any threatened or endangered Lepidoptera.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.
Prosper with pesticides by using them properly! Read and follow label directions.
This labeling must be in the possession of the user at the time of the pesticide application.

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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), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 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
- Waterproof gloves
- Shoes plus socks

NOTICE: Read "Limitation of Warranty and Limitation of Liability" on the container or in this Directions for Use section before buying or using. If terms are not acceptable, return at once, unopened.

Unless specifically stated, do not apply this product through any type of irrigation system.

JAVELIN® WG is a biological insecticide for the control of lepidopterous larvae (see Application Rates section).

JAVELIN® WG attacks the larval gut and must be ingested by the insect to be effective.

JAVELIN® WG may be applied up to and on the day of harvest.

GENERAL USE INSTRUCTIONS

For most consistent control, apply at first sign of newly hatched worms (1st and 2nd instar larvae). Instructions for specific crops are located in the ADDITIONAL INSTRUCTION sections under APPLICATION RATES.

Reapply as necessary under a pest management program that includes close scouting.

If rapid knockdown of heavy worm or non-lepidopterous populations is necessary, include an effective contact insecticide in combination with JAVELIN® WG.

For heavy worm infestations, use the higher JAVELIN® WG rate. During situations of dense foliage and/or rapid growth, increasing water carrier volumes will provide better crop coverage and improve JAVELIN® WG performance.

Tank mix instructions are for use only in states where the tank mix product and application site are registered. Read and follow all label directions for use for other pesticides used as tank mix partners with JAVELIN® WG for specific rates, application timing, and precautions.

Mixing

Fill spray or mixing tank 3/4 full. Turn on agitation and pour JAVELIN® WG into water while maintaining continuous agitation. Add other spray material (if any) and add balance of water. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 48 hours. JAVELIN® WG is formulated to provide desirable coverage and adherence to leaf surfaces. Additional adjuvants, spreaders, or stickers may be added to improve product performance, especially under heavy dew or rainy conditions. Combinations with commonly used insecticides, fungicides, or other spray tank adjuvants are generally not deleterious to JAVELIN® WG if the mix is used promptly. Before mixing in the spray tank, it is

advisable to test physical compatibility by mixing all components in a small container in proportionate quantities.

Application Instructions

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Ground Application

Unless otherwise stated, use the application rate amount of JAVELIN® WG in a minimum of 20 gallons of water per acre depending on type of crop and requirements of state regulations. If lower volumes are used, proper application equipment must be used to insure adequate coverage. Thorough and uniform crop coverage is required for adequate insect control.

Aerial Application

Use application rate amount of JAVELIN® WG in at least 3 gallons of water per acre. Applications at higher water volumes have demonstrated improved control of targeted pests. Apply early morning or evening when air is calm.

INSECTS CONTROLLED

When used as directed, JAVELIN® WG will control the following insects.

Common Name	Scientific Name
Alfalfa caterpillar	<i>Colias eurytheme</i> (Boisduval)
Almond Moth	<i>Cadra cautella</i> (Walker)
Armyworm	<i>Pseudaletia unipuncta</i> (Haworth)
Artichoke plume moth	<i>Platyptilla carduidactyla</i> (Riley)
Bagworm	<i>Thyridopteryx ephemeraeformis</i> (Haworth)
Banana skipper	<i>Erionota thrax</i> (Haworth)
Bertha armyworm	<i>Mamestra configurata</i>
Blueberry leafrollers	various
Blueberry spanworm	<i>Itame argillacearia</i> (Pack.)
Bollworm	<i>Helicoverpa zea</i> (Boddie)
California oak moth	<i>Phryganidia californica</i> (Packard)
Cherry fruitworm	<i>Grapholita packardi</i> (Zeller)
Citrus cutworm	<i>Xylomyges curialis</i>
Codling moth	<i>Cydia pomonella</i> (Linnaeus)
Cotton leafperforator	<i>Bucculatrix thurberiella</i> (Busck)
Cotton leafworm	<i>Alabama argillacea</i> (Hubner)
Cutworm	various, family Noctuidae
Diamondback moth	<i>Plutella xylostella</i> (Linnaeus)
Douglas-fir tussock moth	<i>Orygia pseudotsugata</i> (McDunnough)
Elm spanworm	<i>Ennomos subsignaria</i> (Hubner)
European corn borer	<i>Ostrinia nubilalis</i> (Hubner)
Fall cankerworm	<i>Alsophila pometaria</i> (Harris)
Fall webworm	<i>Hyphantria cunea</i> (Drury)
Filbert webworm	<i>Melissopus latiferreanus</i> (Walsingham)
Fruittree leafroller	<i>Archips argyrospila</i> (Walker)
Grape leafroller	<i>Desmia funeralis</i> (Hubner)
Grapeleaf skeletonizer	<i>Harrisina americana</i> (Gérard)
Green cloverworm	<i>Plathypena scabra</i> (Fabricius)
Green fruitworm	<i>Lithophane antennata</i> (Wilkens)
Gypsy moth	<i>Lymantria dispar</i> (Linnaeus)
Helicoverpa spp.	<i>Helicoverpa</i> spp.
Heliopsis spp.	<i>Heliopsis</i> spp.
Hornworms	<i>Manduca</i> spp.
Imported cabbageworm	<i>Pieris rapae</i> (Linnaeus)
Jack pine budworm	<i>Choristoneura pinus</i> (Fremantle)
Loopers	various
Mimosa webworm	<i>Homadaula arcisocentra</i> (Meyri)
Naval orangeworm	<i>Amyelois transitella</i> (Walker)
Obliquebanded leafroller	<i>Choristoneura rosaceana</i> (Harris)
Omnivorous leafroller	<i>Platynota stultana</i>

Common Name	Scientific Name
Omnivorous leaf-tier	<i>Cnephasia longana</i> (Haworth)
Orange tortrix	<i>Argyrotaenia citrana</i> (Fernald)
Orangedog	<i>Papilio cressphontes</i> (Cramer)
Oriental fruit moth	<i>Grapholita molesta</i> (Busck)
Pandemis leafroller	<i>Pandemis pyrusana</i>
Peach twig borer	<i>Anarsia lineatella</i> (Zeller)
Pecan nut casebearer	<i>Acrobasis nuxvorella</i> (Neunzig)
Redbanded leafroller	<i>Argyrotaenia velutinana</i> (Walker)
Redhumped caterpillar	<i>Schizura concinna</i> (J.E. Smith)
Rindworm complex	various
Roughskinned cutworm	<i>Athetis mindara</i> (Barnes & McDunnough)
Saltmarsh caterpillar	<i>Estigmene acrea</i> (Drury)
Sod webworm	<i>Crambus mutabilis</i>
Southwestern corn borer	<i>Diatraea grandiosella</i> (Dyar)
Spotted cutworm	<i>Xestia spp.</i>
Spring cankerworm	<i>Paleacrita vernata</i> (Peck)
Spruce budworm	<i>Choristoneura fumiferana</i> (Clemens)
Tent caterpillar	various, family Lasiocampidae
Tobacco budworm	<i>Helicoverpa virescens</i> (Fabricius)
Tobacco hornworm	<i>Manduca sexta</i> (Linnaeus)
Tomato pinworm	<i>Keiferia lycopersicella</i> (Walsingham)
Tropical sod webworm	<i>Herpetogramma phaeopteralis</i> (Guenee)
Tufted apple bud moth	<i>Platynota idaeusalis</i> (Walker)
Variiegated leafroller	<i>Platynota flavedana</i> (Clemens)
Velvetbean caterpillar	<i>Anticarsia gemmatilis</i> (Hubner)
Western tussock moth	<i>Orygia vetusta</i> (Boisduval)

RATE SELECTION CONSIDERATIONS

Application rates are typically given as a range:

Lower rate ranges may be desired when tank mixing with contact insecticides labeled for worm control or under conditions of light worm infestations or when uniformly small worms are present.

Medium rate ranges may be desired when multiple worm life stages are present, continuous egg hatches are occurring or young or light armyworm infestations exist.

Upper rate ranges may be desired for heavy worm infestations, mature (larger) worms or for moderate to heavy infestations of armyworm, bollworm, or other difficult to control worm species.

Unless otherwise stated, use the application rate amount of JAVELIN® WG in a minimum of 20 gallons of water per acre depending on type of crop and requirement of state regulations. Lower volumes may be used, but proper application equipment must be used to insure adequate coverage. Thorough and uniform crop coverage is required for adequate insect control.

APPLICATION RATES

Crops	Lbs./Acre
VEGETABLE CROPS	
Artichokes	0.50-1.25
ADDITIONAL INSTRUCTIONS: Apply in a minimum of 100 gal. of water per acre with a spray interval of 10 days or less. Apply 1 lb/A in combination with ASANA® XL, AMBUSH®, or SUPRACIDE® 25-W aerially to aid in resistance management of the artichoke plume moth. Use and follow all label directions of the tank mix partner regarding application, timing, gallonage, and schedules.	
Asparagus, Beans, (Green, Lima, Mung), Broccoli, Broccoli Raab (Rapini), Brussels Sprouts, Cabbage, Cardoon, Carrots, Cauliflower, Celery, Celery, Chick Peas, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Dry Bulb Onions, Eggplants,	0.12-1.50

Crops	Lbs./Acre
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Garlic, Green Onions, Greens (Dandelion, Turnip, Mustard, Beet, China), Herbs (Basil, Cilantro, Dill, Oregano, Thyme, etc.), Horseradish, Kale, Kohl Rabi, Leeks, Lettuce (Endive, Romaine, Head Lettuce, Escarole, Butter Crunch, Leaf, etc.), Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.), Okra, Onions, Parsley, Parsnips, Peas, Peppers, Potatoes, Pumpkins, Radishes, Rutabaga, Salsify, Spinach, Squash (Summer and Winter), Sweet Corn, Sweet Potatoes, Swiss Chard, Table Beets, Tomatoes, Turnip Root, Watercress, Yams

ADDITIONAL INSTRUCTIONS:
Apply as necessary to maintain control.

FIELD CROPS

Alfalfa (Hay and Seed), Sudan Grass, Hay Crops & Other Forage Crops

0.25-1.50

ADDITIONAL INSTRUCTIONS:
Under conditions of rapid plant growth and rapidly increasing armyworm populations (10 worms or greater per 180° sweep) use the highest rate. Against heterogenous worm populations, where 4th and 5th instars are present, and continuous egg laying is occurring, applications may provide variable control. Under these conditions, the addition of a contact insecticide in combination with JAVELIN® WG is recommended. The addition of a spreader sticker to JAVELIN® WG may provide improved performance.

Canola and Evening Primrose

0.12-1.50

ADDITIONAL INSTRUCTIONS:
Apply as necessary to maintain control.

Dry Beans and Peas, Lentils, Mint, Peanuts, Rice, Safflower, Soybeans, Sugar Beets, Sunflower, Sorghum

0.25-1.50

ADDITIONAL INSTRUCTIONS:
Apply as necessary to maintain control.

Field Corn, Pop Corn, Seed Corn

0.50-1.50

ADDITIONAL INSTRUCTIONS:
Make initial application when economically damaging populations exist. Repeat as necessary to maintain control. Applications must be made to early instars prior to entering the ear or plant.

Hops

0.25-1.00

ADDITIONAL INSTRUCTIONS:
Apply as necessary to maintain control.
Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.

Jojoba

0.50-1.00

ADDITIONAL INSTRUCTIONS:
Apply in a minimum of 50 gallons of water per acre by ground equipment or a minimum of 10 gallons of water by aerial equipment. Thorough coverage of foliage is essential and dictates the minimum spray volumes necessary.

Small Grains

1.00-1.50

ADDITIONAL INSTRUCTIONS:
Apply as necessary to maintain control.

Crops	Lbs./Acre
Tobacco	0.12-1.25
ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	
Cotton Including Arizona and California	0.50-1.50
Early and Mid-Season ADDITIONAL INSTRUCTIONS: Repeat as necessary throughout season to maintain control. If egg laying frequency indicates future moderate to heavy worm populations, time application spray to coincide with the 2nd instar larvae. During periods of high temperatures, worms will progress through 1st and 3rd instars very rapidly and early application timing is necessary for control.	
To be effective, JAVELIN® WG spray must be deposited at the larval feeding site. When plant cover is dense and worms are feeding in the lower 2/3 portion of the plant, aerial application of JAVELIN® WG may not provide adequate control.	
For the suppression of light to moderate infestations, apply at first sign of egg-laying or newly-hatched worms (1st instar larvae).	
Except Arizona and California Early	0.25-1.25
ADDITIONAL INSTRUCTIONS: For early season management of <i>Helicoverpa</i> and <i>Heliothis</i> species. Initiate applications when 50% of plants are at pinhead square cotton stage, independent of <i>Helicoverpa</i> and <i>Heliothis</i> egg and larval counts, or at 1st egg lay, whichever occurs earlier. Continue applications on 5-day spray interval up to synthetic pyrethroid spray window. For added control of <i>Helicoverpa</i> and <i>Heliothis</i> , tank mixing of JAVELIN® WG with a labeled ovidic, such as, methomyl (0.125 lb. a.i./acre), profenofos (0.25 lb. a.i./acre), or thiodicarb (0.125-0.25 lb.a. i./acre) is recommended.	
Read and follow all directions for use, precautions and restrictions on tank mix product labels.	
FRUIT, NUT & VINE CROPS	
Apples and Pears	0.50-4.00
ADDITIONAL INSTRUCTIONS: Apply when newly hatched larvae appear and before leaves are rolled. Continue applying as a part of the normal cover spray program until pest is adequately controlled. Apply when caterpillars are actively feeding (2nd-4th instars).	
Avocados	0.50-1.25
ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control. Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds. (Amorbia [Mexican leafroller] is suppressed only).	

Crops	Lbs./Acre
Bananas	0.50-1.00
ADDITIONAL INSTRUCTIONS: Hawaii only. Use calibrated ground equipment with adequate water to apply to point of runoff.	
Citrus	0.25-1.50
ADDITIONAL INSTRUCTIONS: Use 50-600 gallons of water per acre when using ground equipment and 10 gallons of water minimum per acre by air. (Amorbia [Mexican leafroller] is suppressed only.)	
Blueberries, Caneberries, Currants, Kiwi	0.25-1.00
ADDITIONAL INSTRUCTIONS: Apply by ground or aerial equipment using enough water to provide adequate coverage. Begin treatment as soon as possible after hatching. For leafrollers, apply before larvae are protected by leaf folds.	
Grapes	0.50-1.25
ADDITIONAL INSTRUCTIONS: Apply by ground equipment in up to 200 gallons total spray per acre to obtain thorough coverage of leaf surfaces. Start treating as soon as possible after hatching and before larvae are protected by leaf folds.	
Almonds, Apricots, Cherries, Filberts, Nectarines, Peaches, Pecans, Persimmons, Plums, Pomegranates, Prunes, Walnuts	0.25-4.00
ADDITIONAL INSTRUCTIONS: For leafrollers, start treating as soon as possible after hatching and before larvae are protected by leaf folds. Apply when caterpillars are actively feeding (2nd-4th instar). Application timing is very important for good casebearer suppression. Consult your local university or extension agent for information concerning specific modeling, that predicts egg lay, typical application dates, and scouting techniques for your area. JAVELIN® WG must be present at egg hatch for best control. Make application when the majority of eggs are in the pink stage. For best control make two applications 7 days apart. If only one application is made, a minimum of 1lb. should be applied.	
Melons (Also see vegetables)	0.50-0.75
ADDITIONAL INSTRUCTIONS: Apply at first sign of hatch before larvae enter fruit. Repeat as necessary to maintain control.	
Strawberries	0.25-1.50
ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control. Use 20 gallons water minimum per acre when using ground equipment and 5 gallons water minimum per acre by aircraft. In a tank mix with contact insecticides, rates as low as 1/2 lb. of JAVELIN® WG may be used for the control of armyworm.	

Crops	Lbs./Acre
SHADE TREES AND ORNAMENTALS (Including Roses)	0.12-1.25

ADDITIONAL INSTRUCTIONS:
 Apply when leaf expansion reaches 40% to 50% as infestation warrants. If eggs hatch over a long period of time, or if reinfestation occurs, spray about 14 days after first application.
 Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure. Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.

TURF AND GRASS SEED PRODUCTION	1.00
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ADDITIONAL INSTRUCTIONS:
 Repeat as necessary throughout season to maintain control.

STORED SOYBEANS, GRAINS
(Indian Meal Moth, Almond Moth)

ADDITIONAL INSTRUCTIONS:
 To control and prevent Indian Meal Moth and Almond Moth infestations of stored soybeans and grains, prepare a spray mixture which includes 1 gallon of water for every 1.5 oz. by weight of JAVELIN® WG. The spray mixture may be applied either by treating the top 4 inches of grain as it is being augered into storage (applying 0.6 pint of mixture per bushel in the grain stream), or by treating the surface of grain after it is in the bin. The Table below can be used as a guide in determining the total amount of JAVELIN® WG needed according to bin diameter or the number of bushels to be treated.

Bin Diameter (ft.)	Surface Area (sq. ft.)	Bushels (to 4 in. depth)	JAVELIN® WG Rate (by weight)	
			Grams	oz.
8	50	13	21	0.75
12	113	30	50	1.75
16	201	53	85	3.00
20	314	84	120	4.25
24	452	120	185	6.50
28	615	163	255	9.00
32	804	214	326	11.50

To insure thorough coverage when making applications to the grain surface after it is in the bin, apply spray mixture in three (3) applications. Mix the grain with a scoop or rake to a depth of four (4) inches after each application.

Stored grain may be treated anytime, but for best results, treat grain at the time it is placed into storage or shortly thereafter, or in the early spring prior to egg-laying. Full season control is normally experienced. Re-treat only if reinfestation occurs.

For the protection of bagged grain, apply spray mixture to entire grain mass, and mix thoroughly prior to bagging. JAVELIN® WG at 6 oz. by weight per 10 gallons of water will treat approximately 100 bushels.

Treated grain may be used at any time after treatment.

Flowers and Ornamentals

JAVELIN® WG may also be used on flowers and ornamentals outdoors and in the greenhouse at a rate of 0.25-1.50 lb. per 100 gallons of water for control of listed insects on this label.

Guide for Small Spray Volume Mixing

Rate Lbs. / A	Conversion Rate* Teaspoons / Gallon
1/4	1/2
1/2	1
1	2

*Assumes Application to spray runoff.

STORAGE AND DISPOSAL

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

Storage: Store in original container in a cool, dry place inaccessible to children and pets and away from heat and direct sunlight. Protect from freezing. Storage at temperatures above 90° F may impair effectiveness.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instruction must be disposed of according to Federal, State, or Local procedures.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

Certis USA, L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

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 Supracide® 25-W is a registered trademark of Gowan Company.
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