70051-66 8/13/2003 age 127 dvelin

BIOLOGICAL INSECTICIDE

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

Active Ingredient:

Bacillus thuringiensis, subspecies kurstaki solids,
spores and Lepidopteran active toxins*
Inert Ingredients:
TOTAL

*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

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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.



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

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

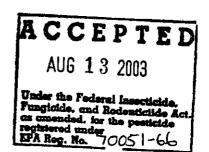
Engineering Controls Statements:

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

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Do not contaminate water when disposing of equipment washwaters.

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.

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 Alfalfa caterpillar Almond Moth Armyworm Artichoke plume moth Bagworm Banana skipper Bertha armyworm Blueberry leafrollers Blueberry spanworm Bollworm California oak moth Cherry fruitworm Citrus cutworm Codling moth Cotton leafperforator Cotton leafworm Cutworm Diamondback moth Douglas-fir tussock moth Elm spanworm European corn borer Fail cankerworm Fall webworm Filbert webworm Fruittree leafroller Grape leaffolder Grapeleaf skeletonizer Green cloverworm Green fruitworm Gypsy moth Helicoverpa spp. Heliothis spp. Hornworms Imported cabbageworm Jack pine budworm Loopers Mimosa webworm Naval orangeworm Obliquebanded leafroller Omnivorous leafroller Platynota stultana

Scientific Name Colias eurytheme (Boisduval) Cadra cautella (Walker) Pseudaletia unipuncta (Haworth) Platyptilla carduidactyla (Riley) Thyridopteryx ephemeraeformis (Haworth) Erionota thrax (Haworth) Marnestra configurata various Itame argillacearia (Pack.) Helicoverpa zea (Boddie) Phryganidia californica (Packard) Grapholita packardi (Zeller) Xylomyges curialis Cydia pomonella (Linnaeus) Bucculatrix thurberiella (Busck) Alabama argillacea (Hubner) various, family Noctuidae Plutella xylostella (Linnaeus) Orgyia pseudotsugata (McDunnough) Ennomos subsignaria (Hubner) Ostrinia nubilalis (Hubner) Alsophila pometaria (Harris) Hyphantria cunea (Drury) Melissopus latiferreanus (Walsingham) Archips argyrospila (Walker) Desmia funeralis (Hubner) Harrisina americana (Guerin) Plathypena scabra (Fabricius) Lithophane antennata (Walker) Lymantria dispar (Linnaeus) Helicoverpa spp. Heliothis spp. Manduca spp. Pieris rapae (Linnaeus) Choristoneura pinus (Freeman) various Homadaula anisocentra (Meyri) Amyelois transitella (Walker) Choristoneura rosanceana (Harris)

Common Name Omnivorous leaftier

Orange tortrix Orangedog

Oriental fruit moth

Pandemis leafroller Peach twig borer Pecan nut casebearer Redbanded leafroller

Redhumped caterpillar

Rindworm complex Roughskinned cutworm

Saltmarsh caterpillar Sod webworm Southwestern corn borer

Spotted cutworm Spring cankerworm Spruce budworm

Tent caterpiliar Tobacco budworm

Tobacco hornworm Tomato pinworm

Tropical sod webworm Tufted apple bud moth Variegated leafroller Velvetbean caterpillar

Western tussock moth

Scientific Name Cnephasia longana

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(Haworth) Argyrotaenia citrana (Fernald) Papilio cresphontes (Cramer) Grapholita molesta (Busck) Pandemis pyrusana Anarsia lineatella (Zeller) Acrobasis nuxvorella (Neunzig) Argyotaenia velutinana (Walker) Schizura concinna (J.E. Smith) various Athetis mindara (Barnes & McDunnough) Estigmene acrea (Drury) Crambus mutabilis Diatraea grandiosella (Dyar) Xestia spp. Paleacrita vernata (Peck) Choristoneura fumiferana (Clemens) various, family Lasiocamidae Helicoverpa virescens (Fabricius) Manduca sexta (Linnaeus) Keiferia lycopersicella (Walsingham) Herpetogramma phaeopteralis (Guenee) Platynota idaeusalis (Walker) Platynota flavedana (Clemens) Anticarsia gemmatalis (Hubner) Orgyia vetusta (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

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Crops	Lbs./Acre
VEGETABLE CROPS	
Artichokes 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.	0.50-1.25
Asparagus, Beans, (Green, Lima, Mung), Broccoli, Broccoli Raab (Rapini), Brussels Sprouts, Cabbage Cardoon, Carrots, Cauliflower, Celeriac, Celery, Chick Peas, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Dry Bulb Onions, Eggplants, 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,	0.12-1.50

Parsinps, Peas, Peppers, Potatoes, Pumpkins, Radishes, Rutabaga, Salsify, Spinach, Squash (Summer and Winter), Sweet Corn, Sweet Potatoes,

Swiss Chard, Table Beets, Tomatoes, Turnip Root,

ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.

Watercress, Yams

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Crops

Lbs./Acre

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FIELD CROPS	
Alfalfa (Hay and Seed), Sudan Grass, Hay Crops & Other Forage Crops 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.	0.25-1.50
Canola and Evening Primrose ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.12-1.50
Dry Beans and Peas, Lentils, Mint, Peanuts, Rice, Safflower, Soybeans, Sugar Beets, Sunflower, Sorghum ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.25-1.50
Field Corn, Pop Corn, Seed Corn 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.	0.50-1.50
Hops ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.25-1.00
Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.	
Jojoba 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.	0.50-1.00
Small Grains ADDITIONAL INSTRUCTIONS:	1.00-1.50

ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.

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Crops	Lbs./Acre
Tobacco Additional instructions:	0.12-1.25
Apply as necessary to maintain control.	
Cotton	0.50-1.50
Including Arizona and	
California	
Early and Mid-Season ADDITIONAL INSTRUCTIONS:	
Repeat as necessary throughout	
season to maintain control. If eqg	
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	0.25-1.25
Early	
Early ADDITIONAL INSTRUCTIONS:	
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Early ADDITIONAL INSTRUCTIONS: For early season management of <u>Helicoverpa</u> and <u>Heliothis</u> species. Initiate applications when 50% of plants are at pinhead square cotton stage, independent of <u>Helicoverpa</u> and <u>Heliothis</u> 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 <u>Helicoverpa</u> and <u>Heliothis</u> , tank mixing of JAVELIN® WG with a labeled ovicide, such as, methomyl (0.125 lb. a.i./acre), or thiodicarb (0.125025 lb.a. i./acre) s recommended. Read and follow all directions for use, precautions and restrictions on tank mix product labels. FRUIT, NUT & VINE CROPS Apples and Pears ADDITIONAL INSTRUCTIONS: Apply when newly hatched larvae	0.50-4.00
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Crops	Lbs./Acre
Avocados 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).	0.50-1.25
Sananas ADDITIONAL INSTRUCTIONS: tawaii only. Use calibrated ground equipment with adequate water to apply to point of runoff.	0.50-1.00
Citrus ADDITIONAL INSTRUCTIONS: Jse 50-600 gallons of water per acre when Ising ground equipment and 10 gallons of water minimum per acre by air. Amorbia [Mexican leafroller] is Suppressed only.)	0.25-1.50
Blueberries, Caneberries, Currants, Kiwi 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 olds.	0.25-1.00
Grapes ADDITIONAL INSTRUCTIONS: Apply by ground equipment in up to 100 gallons total spray per acre to abtain thorough coverage of leaf surfaces. Start treating as soon as cossible after hatching and before arvae are protected by leaf folds.	0.50-1.25
Almonds, Apricots, Cherries Filberts, Nectarines, Peaches Pecans, Persimmons, Plums, Pomegranates, Prunes, Walnuts DDITIONAL INSTRUCTIONS: For leafrollers, start treating as soon as possible after hatching and before arvae are protected by leaf folds. Apply when caterpillars are actively aeding (2nd-4th instar). Application timing is very important or good casebearer suppression. Consult your local university or extension agent for information oncerning specific modeling, that redicts egg lay, typical application ates, and scouting techniques for your rea. JAVELIN® WG must be present t egg hatch for best control. Make pplication when the majority of eggs re in the pink stage. For best control nake two applications 7 days apart. only one application is made, a ninimum of 1lb. should be applied.	0.25-4.00

		Bin Diameter	Surface Area	Bushels (to 4 in.	JAVELIN WG Rate (by weight)		
Melons (Also see vegetables) ADDITIONAL INSTRUCTIONS:	0.50-0.75	(ft.)	(sq. ft.)	depth)			
Apply at first sign of hatch before					<u>Grams</u>	<u>oz.</u>	
larvae enter fruit. Repeat as		8	50	13	21	0.75	
necessary to maintain control.		12	113	30	50	1.75	
	0.05.4.50	16	201	53	85	3.00	
	0.25-1.50	20	314	84	120	4.25	
ADDITIONAL INSTRUCTIONS:		24	452	120	185	6.50	
Apply as necessary to maintain		28	615	163	255	9.00	
control. Use 20 gallons water minimum per acre when using		32	804	214	326	11.50	
ground equipment and 5 gallons water minimum per acre by aircraft. In a tank mix with contact		the grain su in three (3)	face after it i applications.	age when mail is in the bin, a Mix the gra inches after e	ipply spray in with a s	/ mixtur scoop o	
insecticides, rates as low as 1/2 lb. of JAVELIN® WG may be used for the control of armyworm.		rake to a depth of four (4) inches after each applic Stored grain may be treated anytime, but for bes treat grain at the time it is placed into storage of				t results r shortl	
SHADE TREES AND ORNAMENTALS	0.12-1.25	thereafter, or in the early spring prior to egg-laying. season control is normally experienced. Re-treat c reinfestation occurs.					
(Including Roses) ADDITIONAL INSTRUCTIONS: Apply when leaf expansion reaches 40% to 50% as infestation warrants. If eggs hatch over a long period of time,		entire grain JAVELIN® W	For the protection of bagged grain, apply spray mixture t entire grain mass, and mix thoroughly prior to bagging JAVELIN® WG at 6 oz. by weight per 10 gallons of wate will treat approximately 100 bushels.				
or if reinfestation occurs, spray about 14 days after first application.		Treated grain may be used at any time after			after treatr	er treatment.	
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		Flowers and Ornamentals JAVELIN® WG may also be used on flower ornamentals outdoors and in the greenhouse at a 0.25-1.50 lb. per 100 gallons of water for control of insects on this label.					
early instar larvae are feeding on exposed foliage.		Guide for Small Spray Volume Mixing					
TURF AND GRASS SEED PRODUCTION	1.00	Rat <u>Lbs.</u> 1/4	<i>l</i> À	Teaspoon	ion Rate <u>is / Gallo</u> /2		
ADDITIONAL INSTRUCTIONS:		1/4			1		
Repeat as necessary throughout		1	•		2		
season to maintain control.							
		*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 Disposal

Completely empty container into application equipment. Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

(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.

LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY

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.

REGISTERED TRADEMARKS

Ambush® is a registered trademark of Syngenta. Asana® XL is a registered trademark of E.I duPont de Nemours and Co., Inc.

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

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