

Center Panel

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JAVELIN™ WP  
BIOLOGICAL INSECTICIDE

ACTIVE INGREDIENT:

Bacillus thuringiensis Berliner, potency of 32,000 Spodoptera Units  
(at least 30 million viable spores) per milligram\*.....3.2%

INERT INGREDIENTS:.....96.8%  
100.0%

\*Equivalent to 14.5 Billion Spodoptera Units per lb.

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KEEP OUT OF REACH OF CHILDREN

CAUTION

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SHAKE WELL BEFORE USING

Lot No. \_\_\_\_\_  
NET CONTENTS \_\_\_\_\_ GALLONS

EPA REG. NO. 11273-51  
EPA EST. NO. 36299-CA-1

ZOECON CORPORATION, A SANDOZ COMPANY  
CROP PROTECTION DIVISION  
Palo Alto, California 94304

REGISTERED  
OCT 18 1985  
U.S. Environmental Protection Agency,  
Pesticide Registration Division, 700  
C Street, Washington, D.C. 20460  
as listed on the pesticide  
label under  
EPA Reg. No. 11273-51

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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.

Suspension must be shaken or stirred before use. Pour recommended amount of JAVELIN WP into the required volume of water in the spray tank. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 72 hours. JAVELIN WP is formulated to provide desirable coverage and stickability on 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 WP if the mix is used promptly.

GROUND APPLICATION: Use recommended amount of JAVELIN WP in a minimum of 5 to 50 gallons of water depending on type of crop and requirements of state regulations.

GROUND APPLICATION, TREES/VINES: Use recommended amount of JAVELIN WP in up to 200 gallons of water in vines and up to 500 gallons of water in trees in high pressure, high gallonage, hydraulic sprayers. Wet foliage thoroughly with spray but not to the point of excessive runoff. For mist blowers use recommended amount of product in up to 20 gallons of water.

AERIAL APPLICATION: Use recommended amount of JAVELIN WP in 5-20 gallons of water. Apply early morning or evening when air is calm.

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STORAGE AND DISPOSAL

STORAGE: Store in a cool place. Activity may be impaired by storage at prolonged temperatures above 90°F. Protect from freezing.

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: Do not contaminate water, food or feed by storage or disposal. Triple rinse or equivalent. Then offer for recycling or reconditioning, or dispose of in a sanitary land fill or by incineration if allowed by state and local authorities.

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NOTICE: Neither Zoecon nor the seller make any warranty express or implied, including the merchantability and/or fitness for any particular purpose, concerning this material except those which are contained on this label.

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RECOMMENDED APPLICATION RATES

CROP	PEST	LBS/ACRE	SPECIAL INSTRUCTIONS
VEGETABLES	DIAMONDBACK MOTH	1/8 - 1/2	
	IMPORTED CABBAGE WORM	1/8 - 3/4	
	GREEN CLOVERWORM	1/8 - 3/4	
	LOOPERS	1/2 - 1	
	HORNWORMS	1/4 - 1	
	WEBWORMS	1/4 - 1	
	ARMYWORMS	1 - 2	
	TOPACCO BUDWORM	1 - 2	
	PICKLEWORM	1/2 - 1	
	SALT MARSH CATERPILLAR	1/4 - 1	
	REDBACKED CUTWORM	1/4 - 1	
	SPOTTED CUTWORM	1/4 - 1	
	TOMATO FRUITWORM	1/4 - 1	
	VARIEGATED CUTWORM	1/4 - 1	
MELON WORM	1/4 - 1		
ARTICHOKE PLUME-MOTH	1/4 - 2		
STONE FRUITS & NUT CROPS	REDHUMPED CATERPILLAR	1/4 - 1	Apply when caterpillars are actively feeding (2-4 instar) Good coverage is essential for these pests.
	TENT CATERPILLAR	1/4 - 1	
	LEAFROLLERS	1/4 - 1	
	FALL WEBWORM	1/4 - 1	
	WALNUT CATERPILLAR	1/4 - 1	
	CANKERWORMS	1/4 - 1	
	GYPSY MOTH	1/4 - 1	
	NAVAL ORANGEWORM	1/4 - 1	
	PECAN NUT CASEBEARER	1/4 - 1	
	GREEN FRUITWORM	1/4 - 1	
	LOOPERS	1/2 - 1	
	PEACH TWIG BORER	1/4 - 1	
	ARMYWORM	1 - 2	
	TORTRIX	1/4 - 2	
POME FRUITS	LEAFROLLERS	1/4 - 1	Apply when eggs or newly hatched larvae first appear. Continue applications as a part of the normal cover spray program until pest is controlled.
	LOOPERS	1/2 - 1	
	FILBERTWORMS	1/4 - 1	
	ROUGH-SKINNED CUTWORM	1/4 - 1	
	TUFTED APPLE BUDMOTH	1/4 - 1	
	GYPSY MOTH	1/4 - 1	
	TENT CATERPILLAR	1/4 - 1	
	CANKERWORMS	1/4 - 1	
	ARMYWORM	1 - 2	
	TORTRIX	1/4 - 2	

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CROP	PEST	LBS/ACRE	SPECIAL INSTRUCTIONS
POME FRUITS, Cont.	REDHUMPED CATERPILLAR	1/4 - 1	
	FALL WEBWORM	1/4 - 1	
	CODLING MOTH	1/4 - 1	
	GREEN FRUITWORM	1/4 - 1	
STRAWBERRIES, OTHER BERRIES & SMALL FRUITS	GRAPE LEAF SKELETONIZER	1/4 - 1	Begin treatments as soon as possible after hatching and before larvae are protected by leaf folds.
	LEAFROLLERS	1/4 - 1	
	GRAPE LEAF FOLDER	1/4 - 1	
(	ACHEMIA SPINX MOTH	1/4 - 1	
	HORNWORM	1/4 - 1	
	SALT MARSH CATERPILLAR	1/4 - 1	
	GREEN FRUITWORM	1/4 - 1	
	SPOTTED CUTWORM	1/4 - 1	
	REDBACKED CUTWORM	1/4 - 1	
	TENT CATERPILLAR	1/4 - 1	
	BROWN SPANWORM	1/4 - 1	
	ORANGE TORTRIX	1/4 - 2	
	RASPBERRY FRUITWORM	1/4 - 1	
	CRANBERRY FRUITWORM	1/4 - 1	
	CRANBERRY GIRDLER	1/4 - 1	
	CRANBERRY SPANWORM	1/4 - 1	
	<del>LOOPERS</del>	<del>1/2 - 1</del>	
	<del>ARMYWORM</del>	<del>1 - 2</del>	
	<del>HELIOTHIS</del>	<del>1 - 2</del>	
<del>PLUM MOTH</del>	<del>1/4 - 2</del>		
(	AMORBLA MOTH	1/4 - 1	
	LEAFROLLERS	1/4 - 1	
	LOOPERS	1/2 - 1	
	ORANGE TORTRIX	1/4 - 2	
	PALE WESTERN CUTWORM	1/4 - 1	
	GREEN FRUITWORM	1/4 - 1	
BANANAS	BANANA SKIPPER	1/4 - 1	Use calibrated ground equipment with adequate water to apply to run-off
CITRUS	LEAFROLLERS	1/4 - 1	
	ORANGE DOG	1/8 - 1	
	CITRUS CUTWORM	1/4 - 1	
	HORNWORMS	1/4 - 1	
	LOOPERS	1/2 - 1	
	<del>ARMYWORM</del>	<del>1 - 2</del>	
<del>TORTRIX</del>	<del>1/4 - 2</del>		

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CROP	PEST	LBS/ACRE	SPECIAL INSTRUCTIONS
CEREAL GRAINS	ARMYWORM	1 - 2	For suppression in sweet corn.
	LOOPERS	1/2 - 1	
	HELIOTHIS	1 - 2	
TROPICAL FRUITS	HORNWORMS	1/4 - 1	
	LOOPERS	1/2 - 1	
	ORANGE DOG	1/4 - 1	
SOYBEANS, PEANUTS	LOOPERS	1/2 - 1	
SUNFLOWERS	VELVETBEAN CATERPILLAR	1/8 - 3/4	
	PODWORMS (Suppression)	1 - 2	
	GREEN CLOVERWORM	1/8 - 3/4	
	SALT MARSH CATERPILLAR	1/8 - 3/4	
	SKIPPERS	1/8 - 3/4	
	ALFALFA CATERPILLAR	1/8 - 3/4	
	LESSER CORN STALK BORER	1/8 - 3/4	
	ARMYWORM	1 - 2	
	COTTON BOLLWORM	1 - 2	
	SUGAR BEETS, SAFFLOWER	LOOPERS	1/2 - 1
LEAFROLLERS		1/4 - 1	
SALT MARSH CATERPILLAR		1/4 - 1	
TOBACCO BUDWORM/BOLLWORM		1 - 2	
VELVETBEAN CATERPILLAR		1/4 - 1	
GREEN CLOVERWORM		1/4 - 1	
SKIPPERS		1/4 - 1	
ALFALFA CATERPILLAR		1/4 - 1	
REDBACKED CUTWORM		1/4 - 1	
ARMYWORM		1 - 2	
MELONS		LOOPERS	1/2 - 1
	ARMYWORM	1 - 2	
	MELON WORMS	1/8 - 1	
	RINDWORM COMPLEX	1/8 - 3/4	
HOPS	SPOTTED CUTWORM	1/2 - 1	
	REDBACKED CUTWORM	1/2 - 1	
	LOOPERS	1/2 - 1	
	LEAFROLLERS	1/4 - 1	
	OMNIVOROUS LEFTIER	1/4 - 1	

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CROP	PEST	QTS/ACRE	SPECIAL INSTRUCTIONS
COTTON	LOOPERS	1/2 - 1	For the suppression of light to moderate infestations, apply at first sign of egg laying or newly hatched worms (1st and 2nd instar larvae). Reapply as necessary under a pest management program that includes close scouting. If heavy worm populations occur, it may be necessary to apply an insecticide with rapid knockdown and good larvicidal activity as a replacement.
	TOBACCO BUDWORM	1 - 2	
	COTTON BOLLWORM	1 - 2	
	BEE T ARMYWORM	1/2 - 1	

DIRECTIONS FOR USE  
 COTTON TANK MIX RECOMMENDATIONS

Tank mix combinations of JAVELIN and Chlordimeform (Fundal<sup>1</sup> or Galecron<sup>2</sup> SP or 4EC).

CROP	INSECTICIDE	PEST	RATES PER ACRE	SPECIAL INSTRUCTIONS
COTTON	JAVELIN	Tobacco Budworm	1/2 - 1 qt.	
	+	Cotton Bollworm	+	
	chlordimeform SP		1/8 - 1/4 lb.	
	or		or	
	chlordimeform 4EC		1/4 - 1/2 pt.	

Use JAVELIN plus chlordimeform for a combined ovicide/larvicide effect. Use the low rates for suppression of light infestations and the high rates for suppression of moderate infestations. Apply at first sign of egg laying or newly hatched worms. Reapply at 3 - 5 day intervals to sustain suppression or until adequate worm reduction is achieved. Apply from 2 - 5 gallons total spray per acre with aerial equipment. Follow all restrictions, safety precautions and directions contained in the FUNDAL or GALECRON labels.

1 FUNDAL is a trademark of Nor-Am Ag Prod. Inc.  
 2 GALECRON is a trademark of Ciba-Geigy Corp.

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CROPS	PESTS	QTS. PER ACRE
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TOBACCO	LOOPERS	1/2 - 1
	ARMYWORM	1 - 2
	COTTON BOLLWORM	1 - 2
	TOBACCO BUDWORM	1 - 2
	TOBACCO HORNWORM	1 - 2
GREENHOUSE/ORNAMENTALS, FLOWERS, NURSERY, SHADE TREES)	ARMYWORM	1 - 2
	LOOPERS	1/2 - 1
	PLUME MOTH	1/4 - 2
	OAK MOTH	1/4
	SPORTRIX	1/4 - 2

SPECIAL INSTRUCTIONS:

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pply recommended amount in up to 100 gallons of water.

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CROPS	PESTS	QTS. PER ACRE
HAY CROPS, PASTURES & OTHER FORAGE CROPS	ALFALFA CATERPILLAR	1/4 - 1
	LOOPER	1/2 - 1
	ESSEX SKIPPER	1/4 - 3/4
	SALT MARSH CATERPILLAR	1/4 - 1
	VELVETBEAN CATERPILLAR	
	GREEN CLOVERWORM	1/8 - 3/4
	TOBACCO BUDWORM/BOLLWORM	1 - 2
	VARIEGATED CUTWORM	1/4 - 1
	ARMYWORMS	1 - 2
BEET WEBWORM	1/4 - 1	
RANGELAND	RANGE CATERPILLAR	1/4 - 1
	SOD WEBWORM	1/4 - 1

CROPS	PESTS
STORED COMMODITIES	
SOYBEANS, GRAINS	INDIAN MEAL MOTH
SUNFLOWER SEED,	ALMOND MOTH
PEANUTS, CROP	MEDITERRANEAN FLOUR MOTH
SEED	

To control and prevent Indian meal moth and Almond moth infestations of stored soybeans and grains, prepare a spray mixture which includes one gallon of water for every 6 ounces of JAVELIN. 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 needed according to the bin diameter or the number of bushels to be treated.



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<u>Bin Diameter</u> <u>(ft)</u>	<u>Surface Area</u> <u>(sq. ft.)</u>	<u>Bushels</u> <u>(to 4 inch depth)</u>	<u>JAVELIN</u> <u>Rate</u>
8	50	13	3 oz.
12	113	30	7 oz.
16	201	53	12 oz.
20	314	84	17 oz.
24	452	120	26 oz.
28	615	163	36 oz.
32	804	214	46 oz.

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

ored 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.

or the protection of bagged grain, apply spray mixture to entire grain mass, and mix thoroughly prior to bagging. JAVELIN at 3/4 qt. per 10 gallons of water will treat approximately 100 bushels.

treated grain may be used at any time after treatment.