

Center Panel

JAVELIN™ WP

MICROBIAL INSECTICIDE CONCENTRATE

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

ACCEPTED  
JUL 26 1985  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 11273-51

RECEIVED  
4-11-85

Left Panel

#### 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 LASAR 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: Triple rinse of 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      |   |
|                          | TOBACCO 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                |            |   |
| STONE FRUITS & NUT CROPS | REDHUMPED CATERPILLAR  | 1/4 - 1    | Apply when caterpillars are actively feeding (2-4 instar)<br>Good coverage is essential for these pests.  |
|                          | TEN 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    |   |
| 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. |
|                          | TUFTED APPLE BUDMOTH   | 1/4 - 1    |   |
|                          | GYPSY MOTH             | 1/4 - 1    |   |
|                          | TENT CATERPILLAR       | 1/4 - 1    |   |
|                          | CANKERWORMS            | 1/4 - 1    |   |

| 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               |  |  |
|                           | LOOPERS                 | 1/2 - 1               |  |  |
|                           | FILBERTWORMS            | 1/4 - 1               |  |  |
|                           | ROUGH-SKINNED CUTWORM   | 1/4 - 1               |  |  |
| BERRIES &<br>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  |  |
|                           |                         | SALTMARSH CATERPOLLAR | 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 - 1  |  |
|                           |                         | HORNWORM              | 1/4 - 1  |  |
|                           |                         | RASPBERRY FRUITWORM   | 1/4 - 1  |  |
|                           |                         | CRANBERRY FRUITWORM   | 1/4 - 1  |  |
|                           | CRANBERRY GIRDLER       | 1/4 - 1               |  |  |
|                           | CRANBERRY SPANWORM      | 1/4 - 1               |  |  |
| AVOCADOS                  | AMORBIA MOTH            | 1/4 - 1               |  |  |
|                           | LEAFROLLERS             | 1/4 - 1               |  |  |
|                           | LOOPERS                 | 1/2 - 1               |  |  |
|                           | ORANGE TORTRIX          | 1/4 - 1               |  |  |
|                           | PALE WESTERN CUTWORM    | 1/4 - 1               |  |  |
|                           | GREEN FRUITWORM         | 1/4 - 1               |  |  |
| BANANAS                   | BANANA SKIPP! R         | 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               |  |  |

| CROP                            | PEST                     | LBS / ACRE | SPECIAL INSTRUCTIONS  |
|---------------------------------|--------------------------|------------|---|
| RICE                            | ARMYWORM                 | 1 - 2      |   |
|                                 | LOOPERS                  | 1/2 - 1    |   |
| TROPICAL FRUITS                 | HORNWORMS                | 1/4 - 1    |   |
|                                 | LOOPERS                  | 1/2 - 1    |   |
|                                 | ORANGE DOG               | 1/4 - 1    |   |
| SOYBEANS, PEANUTS<br>SUNFLOWERS | LOOPERS                  | 1/2 - 1    |   |
|                                 | VELVETBEAN CATERPILLAR   | 1/8 - 3/4  |   |
|                                 | PODWORMS (Suppression)   | 1 - 2      |   |
|                                 | GREEN CLOVERWORM         | 1/8 - 3/4  |   |
|                                 | SALT MARSH CATERPILLAR   | 1/8 - 3/4  |   |
|                                 | SKIPPER                  | 1/8 - 3/4  |   |
|                                 | ALFALFA CATERPILLAR      | 1/8 - 3/4  |   |
| LESSER CORN STALK BORER         | 1/8 - 3/4                |            |   |
| SUGAR BEETS,<br>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    |   |
|                                 | SKIPPER                  | 1/4 - 1    |   |
|                                 | ALFALFA CATERPILLAR      | 1/4 - 1    |   |
|                                 | REDBACKED CUTWORM        | 1/4 - 1    |   |
| MELONS                          | LOOPERS                  | 1/2 - 1    | For all insects be begin treatment when worms are small to avoid scarring of the crop.  |
|                                 | 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 LEAFTIER      | 1/4 - 1    |   |
| 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 |
|                                 | TOBACCO BUDWORM          | 1 - 2      |   |
|                                 | COTTON BOLLWORM          | 1 - 2      |   |
|                                 | BEEF ARMYWORM            | 1/2 - 1    |   |

| CROPS                                       | PEST   | QTS. PER ACRE   |  |
|---|--|---|--|
| COTTON (Cont.)                              |  |   | 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. |
| HAY CROPS, PASTURES<br>( OTHER FORAGE CROPS | ALFALFA CATERPILLAR<br>LOOPERS<br>ESSEX SKIPPER<br>SALT MARSH CATERPILLAR<br>VELVETBEAN CATERPILLAR<br>GREEN CLOVERWORM<br>TOBACCO BUDWORM/BOLLWORM<br>VARIEGATED CUTWORM<br>ARMYWORMS<br>BEET WEBWORM | 1/4 - 1<br>1/2 - 1<br>1/4 - 3/4<br>1/4 - 1<br><br>1/8 - 3/4<br>1 - 2<br>1/4 - 1<br>1 - 2<br>1/4 - 1 |  |
| RANGELAND                                   | RANGE CATERPILLAR<br>SOD WEBWORM   | 1/4 - 1<br>1/4 - 1  |  |

STORED COMMODITIES

|  |   |
|--|---|
| SOYBEANS, GRAINS<br>SUNFLOWER SEED,<br>PEANUTS, CROP<br>SEED | INDIAN MEAL MOTH<br>ALMOND MOTH<br>MEDITERRANEAN FLOUR MOTH |
|--|---|

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 WP. The spray mixture may be applied either by treating the top 4 inches of grain as it is being sugared 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 WP needed according to the bin diameter or the number of bushels to be treated.

| <u>Bin Diameter</u><br>(ft) | <u>Surface Area</u><br>(sq. ft.) | <u>Bushels</u><br>(to 4 inch depth) | <u>JAVELIN WP</u><br><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.                           |

To 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.

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 reinestation occurs.

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

Treated grain may be used at any time after treatment.

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