

**BMP 123 (2X WP)  
BIOLOGICAL LARVICIDE WETTABLE POWDER**

**ACTIVE INGREDIENT:** *Bacillus thuringiensis* subspecies *kurstaki* strain BMP 123....6.4%  
**POTENCY:** 32,000 International Units (IU) per milligram (Equivalent to 14.52 Billion IU per pound; Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section.

**INERT INGREDIENTS**.....93.6%  
**TOTAL**.....100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**STATEMENTS OF PRACTICAL TREATMENT**

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.  
**IF INHALED:** Remove victim to fresh air.  
**IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists.

**PRECAUTIONARY STATEMENTS**

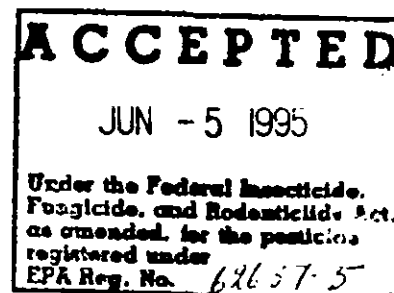
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

**Personal Protective Equipment (PPE):** Applicators and other handlers must wear:

- \* Long-sleeved shirt and long pants.
- \* Waterproof gloves
- \* Shoes plus socks

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



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**USER SAFETY RECOMMENDATIONS:**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using toilet.

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**ENVIRONMENTAL HAZARDS STATEMENT:** Do not contaminate water when disposing equipment wash waters.

**DIRECTIONS FOR USE:**

It is a violation of federal law to apply this product in a manner inconsistent with its labeling. 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

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### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with 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 enter or allow worker entry into treated areas during the restricted entry interval (REI) 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
- \* Waterproof gloves
- \* Shoes plus socks

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BMP 123 (2X WP) is a microbial larvicide for use against the listed lepidopterous insects. Close scouting and early attention to insect infestations are recommended. BMP 123 (2X WP) must be ingested to be effective. The following directions should always be followed:

1. Larvae must be actively feeding on exposed plant parts.
2. Applications must be made when larvae are in the early instars before extensive crop damage occurs. For control of mixed insect populations or overlapping generations, use BMP (2X WP) in combination with another approved insecticide.
3. Thorough spray coverage with BMP 123 (2X WP) is required for consistent control. Spray nozzles and volume applied will vary depending on crop and pest. Under heavy pressure, higher rates, increased gallonage, and shorter spray intervals will improve crop coverage and pest control.
4. Repeat applications at 3-14 day intervals to maintain control. This will depend on weather, plant growth rate, and insect activity.
5. In applications on hard to wet crops such as cole crops, a spreader sticker approved for use on growing and harvested crops, should be added to improve coverage and weathering properties.
6. Unless otherwise indicated use at least two (2) gallons of water per acre except in California where five (5) to ten (10) gallons are typically used.

7. BMP 123 (2X WP) may be applied as a pre and post harvest treatment to raw agricultural commodities.
8. Do not apply this product through any kind of irrigation system.

#### MIXING INSTRUCTIONS:

Fill tank with 1/2 to 2/3 of the desired amount of spray water. Initiate vigorous agitation and continue throughout mixing. Slowly pour BMP 123 (2X WP) into water where surface turbulence is greatest. After all wettable powder is dispersed, fill tank with remaining water and continue agitation for 10 minutes before spraying. Completely mix BMP 123 (2X WP) before adding other products in a tank mix. Maintain continuous agitation during spraying.

BMP 123 (2X WP) may be applied in conventional aerial and ground equipment with sufficient water to provide thorough coverage. Approved spreader/stickers should be added to the mix tank after BMP 123 (2X WP) has been mixed with the appropriate amount of water.

#### APPLICATION RATE

Crop	Pest	Pounds/Acre
Vegetables and commercial crops of the following groups: Root and Tuber Leaves of Root and Tuber Bulb Leafy Brassica (Cole Leafy) Legume Foliage of Legume Fruiting Cucurbit (Melons, Squash, Cucumbers, etc.)	Loopers	1/2 to 1.0
	Hornworms	1/2 to 1.0
	Imported Cabbageworms	1/2 to 1.0
	Diamondback moth	1/2 to 1 1/2
	Green Cloverworm	1/2 to 1.0
	Webworm	1/2 to 1.0
	Armyworms*	1/2 to 2.0
	Saltmarsh Caterpillar	1/2 to 1.0
	Heliothis (Helicoverpa) Spp.**	1/2 to 2.0
	Cutworms	1/2 to 1.0
	Pickleworm	1/2 to 1.0
	Melonworm	1/2 to 1.0
	Rindworm Complex***	1/2 to 1 1/2

\* BMP 123 (2X WP) may be used to suppress 1st and 2nd instar armyworm larvae when populations are light and full coverage ground applications are used.

\*\* Tobacco Budworm, Tomato Fruitworm, Corn Earworm. On tomatoes apply weekly in a preventative program.

\*\*\* Apply weekly in a preventative program.

Crop	Pest	Pounds/Acre
Sunflowers	Loopers	1/2 to 1.0
Peanuts	Green Cloverworms	1/2 to 1.0
Safflower	Velvetbean Caterpillar	1/2 to 1.0
Mint	Podworm*	1/2 to 1.0
Canola	Armyworms*	1/2 to 2.0
Rape	Diamondback Moth	1/2 to 1 1/2
Cereal Grains	Saltmarsh Caterpillar	1/2 to 1.0
Amaranth	Hornworms	1/4 to 1/2
Jojoba	Heliothis (Helicoverpa) spp **	1.0 to 2.0

Okra

Pawpaw

Lentils

\* BMP 123 (2X WP) can be used to suppress podworm and armyworms in an integrated pest management program.

\*\* Suppression only.

Crop	Pest	Pounds/Acre
Artichokes	Armyworms	1/2 to 2.0
	Loopers	1/2 to 1 1/4
Cotton	Tobacco Budworm*	1/2 to 2.0
	Cotton Bollworm*	1/2 to 2.0
	Loopers	1/2 to 1.0
	Cotton Leaf Perforator	1/2 to 1.0
	Cotton Leafworm	1/2 to 1.0
	Saltmarsh Caterpillar	1/2 to 1.0
	Armyworms	1/2 to 2.0

\* Use in conjunction with regular scouting in an integrated pest management program when beneficial insects are present. Applications should be made against light to moderate populations of 1st and 2nd instar larvae. Repeat applications at 3 to 5 day intervals as required and as long as population suppression is satisfactory. For added control of budworms and bollworms tankmixing of BMP 123 (2X WP) with an approved ovicide is recommended. Use of the resulting tank mix must be in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product can not be mixed with any product containing a label prohibition against such mixing.

Crop	Pest	Pounds / Acre
Tobacco	Tobacco Budworm	1/2 to 2.0
	Hornworms	1/4 to 1/2
	Loopers	1/2 to 1.0

BMP 123 (2X WP) may be applied in conjunction with sucker control products at the recommended label rates. Observe label precautions for all products used. Apply BMP 123 (2X WP) as necessary to maintain control.

Crop	Pest	Pounds / Acre
Greenhouse	Loopers	1/4 to 1/2
Flowers	Tobacco Budworm	1/4 to 1/2
Ornamentals	Omnivorous Looper	1/4 to 1/2
Bedding Plants	Omnivorous Leafroller	1/4 to 1/2
(Ground Only)	Diamondback Moth	1/2 to 1.0
	Armyworms	1/2 to 2.0
	Ello Moth (Hornworm)	1/4 to 1/2
	Io Moth	1/4 to 1/2
	Oleander Moth	1/4 to 1/2
	Azalea Caterpillar	1/4 to 1/2
Pastures, Cereal Grain,	Loopers	1/2 to 1.0
Forage, Fodder, Straw,	Alfalfa Caterpillar	1/2 to 1.0
Grass and nongrass commodities	European Skipper	1/2 to 1.0
	Armyworms*	1/2 to 2.0
Rangeland	Rangeland Caterpillars**	1/4 to 1.0

\*BMP 123 (2X WP) may be used to suppress 1st and 2nd instar armyworm larvae when populations are light and full coverage ground applications are used.

\*\* Apply in a minimum of 1/2 to 1.0 gallon per acre.

<u>Crop</u>	<u>Pest</u>	<u>Pounds / Acre</u>	
Turf	Sod Webworm	1.0 to 2.0	

<u>Crop</u>	<u>Pest</u>	<u>Pounds Acre</u>	
		<u>Ground*</u>	<u>Air**</u>
Forest	Gypsy Moth	1/2 to 1.0	1/2 to 2.0
Shade Trees	Eastern Tent Caterpillars	1/4 to 1/2	1/4 to 1/2
Shrubs	Spruce Budworm	1/2 to 1 1/2	1/2 to 1 1/2
Ornamentals	Douglas Fir Tussock Moth	1/4 to 1.0	1/4 to 1.0
Sugar Maple Trees	Western Tussock Moth	1/4 to 1/2	1/4 to 1/2
	Browntail Moth	1/4 to 1/2	1/4 to 1/2
	Bagworm	1/8 to 1/4	1/8 to 1/4
	Spring and Fall Cankerworms	1/4 to 1/2	1/4 to 1/2
	Elm Spanworm	1/4 to 1/2	1/4 to 1/2
	Fall Webworm	1/4 to 1/2	1/4 to 1/2
	California Oakworm	1/4 to 1/2	1/4 to 1/2
	Redhumped Caterpillar	1/4 to 1/2	1/4 to 1/2
	Pine Butterfly	1/2 to 3/4	1/2 to 3/4
	Blackheaded Budworm	1/2 to 3/4	1/2 to 3/4
	Jack Pine Budworm	1/2 to 1.0	1/2 to 1.0
	Mimosa Webworm	1/4 to 1/2	---
	Saddle Prominent Caterpillar	1/4 to 1/2	1/4 to 1/2
	Saddleback Caterpillar	1/4 to 1/2	1/4 to 1/2
	Fruittree Leafroller	1/4 to 1/2	---
	Forest Tent Caterpillars	1/4 to 3/4	1/4 to 3/4

\* Ground applications are made at the rate of 100 gallons per acre for hydraulic sprayers. For mist blowers mix the applicable amount in ten (10) gallons of water.

\*\* Use 1/2 to ten (10) gallons of water depending on the type and density of tree.

<u>Crop</u>	<u>Pest</u>	<u>Pounds / Acre</u>
Grapes	Loopers	1/2 to 1.0
Small Fruits	Grape Berry Moth*	1/2 to 1.0
Berries	Grapeleaf Skeletonizer*	1/2 to 1.0
Hops	Grape Leafroller	1/2 to 1.0
	Saltmarsh Caterpillar*	1/2 to 1.0
	Achema Sphinx Moth*	1/4 to 1/2
	Omnivorous Leafroller*	1/2 to 1.0
	Blueberry Leafroller	1/4 to 1.0
	Oblique Banded Leafroller	1/2 to 1.0
	Cherry Fruitworm	1/4 to 1/2
	Fruittree Leafroller	1/4 to 1.0
	Gypsy Moth	1/2 to 1.0
	Green Fruitworm	1/4 to 1/2
	Orange Tortrix	1/2 to 1.0
	Grape Leafroller	1/4 to 1.0
	Spotted Cutworm	1/2 to 1.0
	Armyworms**	1/2 to 2.0
	Tobacco Budworm	1/2 to 2.0

\* Application by ground only.

\*\* BMP 123 (2X WP) may be used to suppress 1st and 2nd instar armyworm larvae when populations are light and full coverage ground applications are used

Crop	Pest	Pounds / Acre	
		Ground	Air
Stone Fruits	Tent Caterpillars	1/2 to 2.0	1/2 to 2.0
Nut Trees	Cankerworms	1/2 to 2.0	1/2 to 2.0
Pomegranates	Fall Webworm	1/2 to 2.0	1/2 to 2.0
	Walnut Caterpillar	1/2 to 2.0	1/2 to 2.0
	Redhumped Caterpillar	1/2 to 2.0	1/2 to 1.0
	Omnivorous Leafroller	1/2 to 2.0	--
	Citrus Cutworm	1/2 to 1.0	1/2 to 2.0
	Filbert Leafroller	1/2 to 2.0	1/2 to 2.0
	Filbert Webworm	1/2 to 2.0	1/2 to 2.0
	Peach Twig Borer	1/2 to 2.0	--
Pome Fruits*	Gypsy Moth	1/2 to 2.0	1/2 to 2.0
	Cankerworms	1/2 to 2.0	1/2 to 2.0
	Tent Caterpillars	1/2 to 2.0	1/2 to 2.0
	Tufted Apple Budmoth	1/2 to 2.0	--
	Variegated Leafroller	1/2 to 2.0	--
	Redbanded Leafroller	1/2 to 1.0	--
Citrus**	Fruittree Leafroller	1/2 to 2.0	--
	Citrus Cutworm	1/2 to 2.0	1/2 to 1.0
	(Apply to light to moderate populations of newly hatched citrus cutworm larvae)		
	Orangedog	1/4 to 1.0	--
Avocado	Loopers	1/2 to 2.0	1/2 to 2.0
	Orange Tortrix	1/2 to 2.0	1/2 to 2.0
	Omnivorous Leafroller	1/2 to 2.0	1/2 to 2.0
	Amorbia	2.0	--
Tropical Fruits***	Homworm	1/2 to 2.0	--
Papayas	Leafrollers	1/2 to 2.0	--
Mangoes	Omnivorous Looper	1/2 to 2.0	--
Kiwi	Loopers	1/2 to 2.0	--
Persimmons			
Pomegranates			
Bananas****	Banana Skipper	1/3 to 1.0	--

\* Apply BMP 123 (2X WP) in 50 - 500 gallons / acre.

\*\* Apply in 100 to 400 gallons per acre.

\*\*\* Apply at least 200 gallons per acre.

\*\*\*\* Hawaii Only, Ground Equipment Only, Apply to the point of runoff.

# **STORAGE AND DISPOSAL**

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

**Storage:** Store in a cool dry place.

**Pesticide Disposal:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent), then 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. Do not reuse container.

**NOTICE TO USER:** Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with label instructions.

BECKER MICROBIAL PRODUCTS, INC.  
9464 N. W. 11th Street  
Plantation, Florida 33322

EPA Registration Number: 62637-5  
EPA Establishment Number: 44616-MO-001  
Net Weight: 1.0 pound