

## NOTICE OF PESTICIDE:

 REGISTRATION  
 REREGISTRATION(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

BMP 123 (48 LC)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Becker Microbial Products, Inc.  
9464 N.W. 11th Street  
Plantation, FL 33322

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(C) provided that you:

1. Submit the studies listed below by December 21, 1994.

Guideline Reference  
Number

Title of Study

**BEST AVAILABLE COPY**

154A-16

Avian Oral

154A-19

30 Day Freshwater Fish Toxicity/  
Pathogenicity Testing

154A-20

Freshwater Aquatic Invertebrate  
Toxicity/Pathogenicity Testing

154A-24

Honey Bee Toxicity/Pathogenicity Test

154A-13

Analysis of Samples<sup>1</sup>

The Avian Oral and Freshwater Fish study requirements can also be satisfied by submitting data waiver requests which are reviewed

<sup>1</sup>See page 40 of the Guidance for the Reregistration of Pesticide Products Containing Bacillus thuringiensis as the Active Ingredient. You must analyze for lepidopteran active toxin as per footnote 5.

 ATTACHMENT IS APPLICABLE.

SIGNATURE OF APPROVING OFFICIAL

See P. 2, 3 &amp; 4

DATE

8/5/93

and found satisfactory by the Agency on or before 12/21/94.

2. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.

3. Submit production information (pounds or gallons produced) for this product for the fiscal years in which this product is conditionally registered in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year. This information should be submitted to:

U.S. Environmental Protection Agency  
Office of Pesticide Programs (H7504C)  
Document Processing Desk (RSB)  
401 M Street SW., CM #2  
Washington, DC 20460

4. Make the following label changes before you release the BMP 123 (48 LC) product for shipment.

a) In the ingredients statement, delete "Lepidopteran active toxins" since you base your active ingredient percentage on bioassay rather than  $\delta$ -endotoxin percentage. Also, add "strain HD-263" after "kurstaki."

b) Add the heading "Hazards to Humans and Domestic Animals" above the block of text that starts "CAUTION: Harmful if inhaled..." and add the signal word CAUTION below the KEEP OUT OF REACH OF CHILDREN statement. All point sizes must comply with 40 CFR 156.10.

c) Comply with PR Notice 87-1 by adding "Do not apply this product through any type of irrigation system." or per section XI.(C)(1) of the Notice add the exact language specified in sections IV. through IX. of the Notice. Chemigation instructions beyond these must be submitted via an amendment application.

d) Delete "highly selective" and the "BENEFICIAL INSECTS:" heading and associated text since nontarget data substantiating these claims have not yet been submitted. Claims for safety to nontarget organisms must be supported by test data for specific organisms and life stages listed on the label.

e) Place a STORAGE AND DISPOSAL heading above your storage and disposal block and add the statement "Do not contaminate water, food, or feed by storage or disposal." above the storage line of text.

f) List your full establishment number on the label.

g) Add "EPA REGISTRATION NUMBER: 62637-6" to the label.

h) Per PR Notice 82-1, replace the statement "Read and follow all precautions and restrictions on ovicide labels." with "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 cannot be mixed with any product containing a label prohibition against such mixing."

5. Submit a revised Confidential Statement of Formula that modifies the active ingredient portion by deleting "Lepidopteran active toxin" since you base your active ingredient percentage on bioassay rather than  $\delta$ -endotoxin percentage. The active ingredient percentage of 2.15% based on (10,750 IU/mg) / (500,000 IU/mg) x 100% should remain the same. Also, correct the total weight in column 17 to 30,032.36 lb.

6. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

Note that this acceptance of your product does not relieve you of your obligation to comply with the Worker Protection Standard. If any of your products are covered by this standard, you are required to submit, and receive the Agency's approval by April 21, 1994, a revised label reflecting the required label statements of 40 CFR 156, published in the FEDERAL REGISTER on August 21, 1992 (57FR 38102). Further guidance will be issued. According to 40 CFR 156, subpart K: "No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994. Please call 1-800-777-2185 if you have any labeling questions regarding the Worker Protection Standard.

The Agency will require a change in the labeling regarding Endangered Lepidopteran Species when similar products are required to do so.

Per your representative Christine Dively's letter of 5/20/93, which certified that Becker Microbial Products, Inc. is willing to voluntarily cancel this registration on 5/21/96, this registration will expire on 5/21/96.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA § 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,



Phil Hutton  
Product Manager 18  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

59712

BMP 123 (48 LC)  
High Potency Biological Larvicide  
Aqueous Suspension

ACTIVE INGREDIENT: *Bacillus thuringiensis* subspecies *kurstaki*, 10,750 International Toxic Units (ITU) per milligram (Equivalent to 48 Billion ITU/gallon; 12.68 Billion ITU/liter) Lepidopteran active toxins ..... 2.15%  
Potency units should not be used to adjust use rates beyond those specified in the Directions for Use Section.  
INERT INGREDIENTS: ..... 97.85%

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TOTAL ..... 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION: Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

STATEMENTS OF PRACTICAL TREATMENT:

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

AUG 05 1993

IF INHALED: Remove victim to fresh air.

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

62637-6

ENVIRONMENTAL HAZARDS: Do not contaminate water when disposing equipment washwaters.

BMP 123 (48 LC) is a highly selective microbial larvicide effective against lepidoptera in a variety of habitats.

BENEFICIAL INSECTS: Honey bees which feed in areas treated with BMP 123 (48 LC) are not harmed by the product. BMP 123 (48 LC) does not affect the activities of parasitic and predaceous arthropods in integrated pest management programs.

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

BMP 123 (48 LC) is a highly selective, microbial larvicide for use against the listed lepidopterous insects. Close scouting and early attention to insect infestations are recommended. BMP 123 (48 LC) 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 should 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 123 (48 LC) in combination with another approved insecticide.
3. Thorough spray coverage with BMP 123 (48 LC) is required for consistent control. Spray nozzles and volume applied will vary depending on crop and pest. Under heavy pest pressure, higher rates, increased gallonage, and shorter spray intervals will improve crop coverage and pest control.

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4. Repeat applications at 3-14 day intervals to maintain control. This will depend on weather, plant growth rate, and insect activity. Single spray applications should be made when egg hatch is essentially complete and before extensive crop damage occurs.
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 2.0 gallons of water per acre except in California where 5-10 gallons is typically used.
7. BMP 123 (48 LC) may be applied as a pre and post harvest treatment to raw agricultural commodities.

BMP 123 (48 LC) may be applied by 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 (48 LC) has been mixed with the appropriate amount of water.

APPLICATION RATE

Crop	Pest	Ounces/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	11 to 42
	Hornworms	11 to 21
	Imported	
	Cabbageworms	11 to 21
	Diamondback	
	Moth	21 to 42
	Green Cloverworm	11 to 21
	Webworm	11 to 21
	Armyworms*	21 to 42
	Saltmarsh	
	Caterpillar	21 to 42
	Heliothis Spp.**	21 to 42
	Cutworms	21 to 42
	Pickleworm	11 to 21
	Melonworm	11 to 21
	Rindworm	
	Complex***	21 to 42

\*BMP 123 (48 LC) 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	Ounces/Acre
Sunflowers	Loopers	21 to 42
Peanuts	Green Cloverworms	11 to 21
Safflower	Velvetbean	
Mint	Caterpillar	11 to 21
Canola	Podworm*	21 to 42
Rape	Armyworms	21 to 42
Cereal Grains	Diamondback	
Amaranth	Moth	21 to 42
Jojoba	Saltmarsh	
Okra	Caterpillar	21 to 42
Pawpaw	Hornworms	11 to 21
Lentils	Heliothis spp.**	42

\*BMP 123 (48 LC) can be used to suppress podworm in an integrated pest management program.

\*\* Suppression Only

Crop	Pest	Ounces/Acre
Artichokes	Artichoke Plume	
	Moth	21 to 53
	Armyworms	21 to 64
	Loopers	21 to 53
Cotton	Tobacco Budworm*	21 to 42
	Cotton Bollworm*	21 to 42
	Loopers	21 to 42
	Cotton Leaf Perforator	21 to 42
	Cotton Leafworm	21 to 42
	Saltmarsh	
	Caterpillar	21 to 42
	Armyworms	21 to 64

\*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 (48 LC) with an approved larvicide is recommended. Read and follow all precautions and restrictions on ovicide product labels.

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Tobacco	Tobacco Budworm	21 to 42
	Hornworms	11 to 21
	Loopers	21 to 42

BMP 123 (48 LC) may be applied in conjunction with sucker control products at the recommended label rates. Observe label precautions for all products used. Apply BMP 123 (48 LC) as necessary to maintain control.

Crop	Pest.	Ounces/Acre
Greenhouse	Loopers	11 to 21
Flowers	Tobacco Budworm	11 to 21
Bedding Plants	Omnivorous Looper	11 to 21
Ornamentals (Ground Only)	Omnivorous Leafroller	11 to 21
	Diamondback Moth	21 to 42
	Armyworms	21 to 84
	Ello Moth (Hornworm)	11 to 21
	Io Moth	11 to 21
	Oleander Moth	11 to 21
	Azalea Caterpillar	11 to 21

Crop	Pest	Ounces/Acre
Pastures	Loopers	11 to 42
Cereal Grain	Alfalfa Caterpillar	11 to 21
Forage	European Skipper	6 to 11
Fodder	Armyworms	42 to 64
Straw		
Grass and nongrass commodities		
Rangeland	Range Caterpillar*	11 to 21

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

Turf	Sod Webworm	32 to 64
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Crop	Pest	Ounces/Acre	
		Ground *	Air**
Forest	Gypsy Moth	21 to 84	21 to 84
Shade Trees	Eastern Tent		
Shrubs	Caterpillars	11 to 21	11 to 21
Ornamentals	Spruce Budworm	21 to 64	21 to 64
Sugar Maple Trees	Douglas Fir		
	Tussock Moth	11 to 42	11 to 42
	Western Tussock		
	Moth	11 to 21	11 to 21
	Browntail Moth	11 to 21	11 to 21
	Bagworm	6 to 12	6 to 12
	Spring and Fall		
	Calkerworms	11 to 21	11 to 21
	Elm Spanworm	11 to 21	11 to 21
	Fall Webworm	11 to 21	11 to 21
	California		
	Oakworm	11 to 21	11 to 21
	Redhumped		
	Caterpillar	11 to 21	11 to 21
	Pine Butterfly	21 to 32	21 to 32
	Blackheaded		
	Budworm	21 to 32	21 to 32
	Jack Pine Budworm	21 to 42	21 to 42
	Mimosa Webworm	11 to 21	-
	Saddle Prominent		
	Caterpillar	11 to 21	11 to 21
	Saddleback		
	Caterpillar	11 to 21	11 to 21
	Fruittree		
	Leafroller	11 to 21	-
	Forest Tent		
	caterpillars	11 to 32	11 to 32

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

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

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**Fruits and Nuts**

Crop	Pest	Ounces/Acre
Grapes	Loopers	21 to 42
Small Fruits	Grape Berry Moth*	21 to 42
Berries	Grapeleaf Skeletonizer*	21 to 42
Hops	Grape Leafroller	21 to 42
	Saltmarsh Caterpillar*	21 to 42
	Achema Sphinx Moth*	11 to 21
	Omnivorous Leafroller*	21 to 42
	Blueberry Leafroller	11 to 42
	Cherry Fruitworm	11 to 21
	Fruittree Leafroller	11 to 42
	Gypsy moth	21 to 42
	Green Fruitworm	11 to 21
	Orange Tortrix	21 to 42
	Grape Leafroller	11 to 42
	Spotted Cutworm	21 to 42

\*Application by ground only.

Crop	Pest	Ounces/Acre	
		Ground	Air
Stone Fruits	Tent		
Nut Trees	Caterpillars	21 to 42	21 to 42
Pomegranates	Cankerworms	11 to 21	11 to 21
	Fall Webworm	21 to 42	21 to 42
	Walnut		
	Caterpillar	11 to 42	11 to 42
	Redhumped		
	Caterpillar	21 to 42	21 to 42
	Omnivorous		
	Leafroller	11 to 41	--
	Citrus Cutworm	21 to 42	21 to 42
	Filbert		
	Leafroller	21 to 42	21 to 42
	Filbert Webworm	21 to 42	21 to 42

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Crop	Pest	Ounces/Acre	
		Ground	Air
Pome Fruits*	Gypsy Moth	21 to 63	21 to 63
	Cankerworms	11 to 21	11 to 21
	Tent		
	Caterpillars	21 to 42	21 to 42
	Tufted Apple		
	Budmoth	21 to 42	--
	Variegated		
	Leafroller	21 to 42	--
	Redbanded Leafroller	21 to 42	--
Citrus**	Fruittree		
	Leafroller	21 to 42	--
	Citrus Cutworm	21 to 42	21 to 42
	Orangedog	11 to 21	--
Avocado	Loopers	21 to 64	21 to 64
	Orange Tortrix	21 to 42	21 to 64
	Omnivorous		
	Leafroller	21 to 42	21 to 42
	Amorbia	42	--

Crop	Pest	Ounces/Acre	
		Ground	Air
Tropical			
Fruits***	Hornworm	21 to 42	--
Papayas	Leafrollers	21 to 42	--
Mangoes	Omnivorous Looper	21 to 42	--
Kiwi	Loopers	21 to 42	--
Persimmons			
Pomegranate			
Bananas****	Banana Skipper	16 to 42	--

\*Apply BMP 123 (48 LC) in 450-450 gallons/acre for pest suppression in pest management programs.

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

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

\*\*\*\*Hawaii Only, Ground Equipment Only, Apply to the Point of Runoff.

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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.

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

EPA REGISTRATION NUMBER: 62637-  
EPA ESTABLISHMENT NUMBER: 62637-1A

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