

PM 92

62637-6

9/8/97

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7501W)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg Number: 62637-6

Date of Issuance: SEP 8 1997

Term of Issuance: Unconditional

Name of Pesticide Product: BMP 123 (48LC)

NOTICE OF PESTICIDE:

[X] Registration
[ ] Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

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

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above 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.

Registration in no way is to be construed as an endorsement or recommendation of this product by the 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 unconditionally registered in accordance with FIFRA sec. 3(c)(5), provided that you:

- 1. Change ounces/acre to fluid ounces/acre for all application rates.
2. Submit five copies of the final printed labeling before you release this product for shipment.

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

Unconditional registration does not eliminate the need for continual reassessment of a pesticide. If EPA determines, at any time, that additional data are required to maintain in effect, an existing registration, the Agency will require submission of such data under Section 3(c)(2)(B) of FIFRA.

(continued on page 2)

Signature of Approving Official:

see next page

SEP 8 1997

8570-0

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE. Handwritten entries include 7511W, 7511, KUMAR, HUTTON, 8/24/97, 9/5/97.

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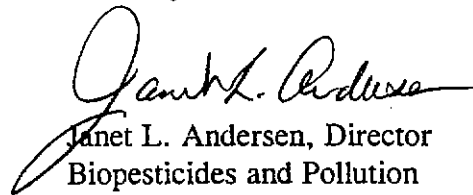
Under the currently approved use patterns, the risk of *Bacillus thuringiensis* subspecies *kurstaki* strain BMP 123 is minimal to nonexistent to nontarget organisms including endangered species except endangered insect species.

The Agency has concerns about the exposure of threatened and endangered species. Currently, the Agency is developing a program (The Endangered Species Protection Program) to identify all pesticides whose use may cause potential adverse impacts on endangered and threatened species and to implement mitigation measures that will eliminate the adverse impacts. The program will require users to consult county-specific bulletins. These bulletins will provide information about specific use restrictions to protect endangered and threatened species in the county of specific pesticide use. Consultations with Fish and Wildlife Service will be necessary to assess risks to newly listed species or from, proposed new uses.

The Agency plans to publish a description of the Endangered Species Protection Program in the Federal Register and have enforceable county-specific bulletins. Because the Agency is taking this approach for protection of endangered and threatened species, it is not imposing label modifications at this time. Rather, any requirement for product use modifications will occur in the future under the Endangered Species Protection Program.

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

Sincerely,



Janet L. Andersen, Director  
Biopesticides and Pollution  
Prevention Division (7511W)

BMP 123 (48 LC)  
BIOLOGICAL LARVICIDE AQUEOUS SUSPENSION

ACTIVE INGREDIENT: *Bacillus thuringiensis* subspecies *kurstaki* strain BMP 123....2.15%  
POTENCY: 10,750 International Units (IU) per milligram (Equivalent to 48.0 Billion IU per gallon: 12.68 Billion IU / Liter).  
Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section.

INERT INGREDIENTS.....97.85%  
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. 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 and 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.

USER SAFETY RECOMMENDATIONS:

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

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.

with COMMENTS  
In EPA Letter Dated  
Sep 18/97  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
62-637-6

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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 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

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BMP 123 (48 LC) is a 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 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 (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 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. 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 two (2) gallons of water per acre except in California where five (5) to ten (10) gallons are typically used.
7. BMP 123 (48 LC) 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.

BMP 123 (48 LC) 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 (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	21 to 42
	Hornworms	21 to 42
	Imported Cabbageworms	21 to 42
	Diamondback moth	21 to 64
	Green Cloverworm	21 to 42
	Webworm	21 to 42
	Armyworms*	21 to 86
	Saltmarsh Caterpillar	21 to 42
	Heliothis (Helicoverpa) Spp.**	21 to 86
	Cutworms	21 to 42
	Pickleworm	32 to 64
	Melonworm	32 to 64
	Rindworm Complex***	21 to 64

\* 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	21 to 42
Safflower	Velvetbean Caterpillar	21 to 42
Mint	Podworm*	21 to 42
Canola	Armyworms*	21 to 86
Rape	Diamondback Moth	21 to 64
Cereal Grains	Saltmarsh Caterpillar	21 to 42
Amaranth	Hornworms	11 to 21
Jojoba	Heliothis (Helicoverpa) spp.	21 to 86
Okra		
Pawpaw		
Lentils		

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

\*\* Suppression only.

<u>Crop</u>	<u>Pest</u>	<u>Quinces / Acre</u>
Artichokes	Artichoke Plume Moth	21 to 53
	Amyworms	21 to 86
	Loopers	21 to 53
Cotton	Tobacco Budworm*	21 to 86
	Cotton Bollworm*	21 to 86
	Loopers	21 to 42
	Cotton Leaf Perforator	21 to 42
	Cotton Leafworm	21 to 42
	Saltmarsh Caterpillar	21 to 42
	Amyworms	21 to 86

\* 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 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.

<u>Crop</u>	<u>Pest</u>	<u>Quinces / Acre</u>
Tobacco	Tobacco Budworm	21 to 86
	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.

<u>Crop</u>	<u>Pest</u>	<u>Quinces / Acre</u>
Greenhouse	Loopers	11 to 21
Flowers	Tobacco Budworm	11 to 21
Ornamentals	Omnivorous Looper	11 to 21
Bedding Plants (Ground Only)	Omnivorous Leafroller	11 to 21
	Diamondback Moth	21 to 42
	Amyworms	21 to 86
	Ello Moth (Hornworm)	11 to 21
	lo Moth	11 to 21
	Oleander Moth	11 to 21
	Azalea Caterpillar	11 to 21

<u>Crop</u>	<u>Pest</u>	<u>Quinces / Acre</u>
Pastures, Cereal Grain, Forage, Fodder, Straw, Grass and nongrass commodities	Loopers	21 to 42
	Alfalfa Caterpillar	21 to 42
	European Skipper	6 to 11
Rangeland	Amyworms	42 to 86
	Rangeland Caterpillars*	11 to 42

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

Crop	Pest	Ounces / Acre
Turf	Sod Webworm	32 to 64

Crop	Pest	Ounces / Acre	
		Ground*	Air**
Forest	Gypsy Moth	21 to 86	21 to 86
Shade Trees	Eastern Tent Caterpillars	11 to 21	11 to 21
Shrubs	Spruce Budworm	21 to 64	21 to 64
Ornamentals	Douglas Fir Tussock Moth	11 to 42	11 to 42
Sugar Maple Trees	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 Cankerworms	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 (10) gallons of water.

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

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 42
	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 42
	Orange Tortrix	21 to 42
	Grape Leafroller	11 to 42
	Spotted Cutworm	21 to 42
	Amyworms**	21 to 84
	Tobacco budworm	21 to 84

\* Application by ground only.

\*\* BMP 123 (48 LC) may be used to suppress 1st and 2nd instar armyworm larvae when populations are light and full coverage applications are used.

Crop	Pest	Ounces / Acre	
		Ground	Air
Stone Fruits	Tent Caterpillars	21 to 42	21 to 42
Nut Trees	Cankerworms	11 to 21	11 to 21
Pomegranates	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

Crop	Pest	Ounces / Acre	
		Ground	Air
Pome Fruits*	Gypsy Moth	21 to 64	21 to 64
	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 64	21 to 64
	Omnivorous Leafroller	21 to 42	21 to 42
	Amorbia	42	—

Crop	Pest	Ounces / Acre	
		Ground	Air
Tropical Fruits***	Homworm	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 450-500 gallons / acre for pest suppression in pest management programs.

\*\* 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 or 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: 62637-6  
EPA Establishment Number: 64148-SC-001

**Net Contents:**

**Lot Number:**