· cg # 62637-4 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM-18

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SEP 1 3 1994

Becker Microbial Products, Inc. c/o Ms. Christine Dively Jellinek, Schwartz & Connolly, Inc. 1015 15th Street, NW, Suite 500 Washington, D.C. 20005

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Dear Ms. Dively:

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BMP 123 (32 LC) Revised Label and Confidential Statement Subject: of Formula Submitted with Your Letter Dated March 9, 1994 EPA File Symbol: 62637-4

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. One copy of the finished labeling must be submitted prior to releasing the product for shipment.

- Modify "Harmful if inhaled." to read "Harmful if inhaled 1. or absorbed through the skin," in the Hazards to Humans and Domestic Animals section.
- 2. Add a net weight statement.
- 3. Delete "-2-" at the bottom of page 1 of your label.
- 4. Replace the storage and disposal statement "Do not contaminate water, food, or feed by storage and disposal." with "Do not contaminate water, food or feed by storage or disposal."
- 5. List the actual establishment number on the label.

The Confidential Statement of Formula (CSF) dated 3/9/94 has been received and placed in your product's file. However, you must submit a revised CSF correcting the potency statement as specified in the 8/5/93 notice of registration for this product.

Sincerely,

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SURNAME	Mine is	<u>``</u>		****	· • • • • • • • • • • • • • • • • • • •	* * * * * * * * * * * * * * * * * * * *	*****
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BMP 123 (32 LC) **BIOLOGICAL LARVICIDE AQUEOUS SUSPENSION**

ACTIVE INGREDIENT: Bacillus thuringiensis subspecies kurstaki strain BMP 123...1.6% POTENCY: 8,000 International Units (IU) per milligram (Equivalent to 32.0 Billion IU

per gallon: 8.45 Billion IU / Liter).

Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section.

INERT INGREDIENTS	98.40%
TOTAL	

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENTS OF PRACTICAL TREATMENT

ACCEPTED IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation with COMMENTS in EPA Letter Dated persists.

IF INHALED: Remove victim to fresh air.

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

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Under the Federal Insecticide, Fungicide, and Rodenticide Act amended, for the pesticide istored under EPA Reg. No. 626

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

PRECAUTIONARY STATEMENTS

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:

User's 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 unecty 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 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 into 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

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- Waterproof gloves
- Shoes plus socks

BMP 123 (32 LC) is a microbial larvicide for use against the listed lepidopterous insects. Close scouting and early attention to insect infestations are recommended. BMP 123 (32 LC) must be ingested to be effective. The following directions should always be followed:

- 1. Larvae must be actively feeding on exposed plant parts.
- 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 (32 LC) in combination with another approved insecticide.
- Thorough spray coverage with BMP 123 (32 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.
- 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.
- 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.

- BMP 123 (32 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 (32 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 (32 LC) has been mixed with the appropriate amount of water.

Сгор	Pest	Ounces / Acre
Vegetables and commercial	Loopers	32 to 64
crops of the following groups:	Hornworms	32 to 64
Root and Tuber	Imported Cabbageworms	32 to 64
Leaves of Root and Tuber	Diamondback moth	32 to 96
Bulb	Green Cloverworm	32 to 64
Leafy	Webworm	32 to 64
Brassica (Cole Leafy)	Armyworms*	32 to 128
Legume	Saltmarsh Caterpillar	32 to 64
Foliage of Legume	Heliothis (Helicoverpa) Spp.**	32 to 128
Fruiting	Cutworms	32 to 64
Cucurbit (Melons, Squash,	Pickleworm	32 to 64
Cucumbers, etc.)	Melonworm	32 to 64
· -	Rindworm Complex***	32 to 96

APPLICATION RATE

- * BMP 123 (32 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.

1.	Apply	weekly	in	а	preventative program.	
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Crop	Pest	Ounces / Acre	
Sunflowers	Loopers	32 to 64	
Peanuts	Green Cloverworms	32 to 64	
Safflower	Velvetbean Caterpillar	32 to 64	
Mint	Podworm*	32 to 64	
Canola	Armyworms*	32 to 128	
Rape	Diamondback Moth	32 to 96	-
Cereal Grains	Saltmarsh Caterpillar	32 to 64	~~~~
Amaranth	Hornworms	16 to 32	-
Jojoba	Heliothis (Helicoverpa) spp.	32 to 120 -	^ - • * •
Okra		· · · · ·	•
Pawpaw			
Lentils		•	-
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BMP 123 (32 LC) can be used to suppress podworm and armyworms in an integrated pest management program.

Suppression only.

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Çrop	Pest	Qunces / Acre
Artichokes	Armyworms	32 to 128
	Loopers	16 to 80
Cotton	Tobacco Budworm*	32 to 128
	Cotton Bollworm*	32 to 128
	Loopers	32 to 64
	Cotton Leaf Perforator	32 to 64
	Cotton Leafworm	32 to 64
	Saltmarsh Caterpillar	32 to 64
	Armyworms	32 to 128

* 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 (32 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.

Crop	Pest	Ounces / Acre
Tobacco	Tobacco Budworm Hornworms Loopers	32 to 128 16 to 32 32 to 64

BMP 123 (32 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 (32 LC) as necessary to maintain control.

Crop	Pest	Ounces / Acre
Greenhouse	Loopers	16 to 32
Flowers	Tobacco Budworm	16 to 32
Ornamentals	Omnivorous Looper	16 to 32
Bedding Plants	Omnivorous Leafroller	16 to 32
(Ground Only)	Diamondback Moth	32 to 64
	Armyworms	32 to 128
	Ello Moth (Hornworm)	16 to 32
	lo Moth	16 to 32
	Oleander Moth	16 to 32
	Azalea Caterpillar	16 to 32
Сгор	Pest	Ounces / Acre
Pastures, Cereal Grain,	Loopers	32 to 64
Forage, Fodder, Straw,	Alfalfa Caterpillar	32 to 32
Grass and nongrass commodilies	European Skipper	8 to 16
÷	Armyworms	64 to 128
Rangeland	Rangeland Caterpillars*	16 to 64

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

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Crop	Pest	 	 Qunces / Acre

Turf

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Sod Webworm

64 to 128

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Crop	Pest	Ounces	
		Ground*	Air**
Forest	Gypsy Moth	32 to 128	32 to 128
Shade Trees	Eastern Tent Caterpillars	16 to 32	16 to 32
Shrubs	Spruce Budworm	32 to 96	32 to 96
Ornamentals	Douglas Fir Tussock Moth	16 to 64	16 to 64
Sugar Maple Trees	Western Tussock Moth	16 to 32	16 to 32
	Browntail Moth	16 to 32	16 to 32
	Bagworm	8 to 16	8 to 16
	Spring and Fall Cankerworms	16 to 32	16 to 32
	Elm Spanworm	16 to 32	16 to 32
	Fall Webworm	16 to 32	16 to 32
	California Oakworm	16 to 32	16 to 32
	Redhumped Caterpillar	16 to 32	16 to 32
	Pine Butterfly	32 to 48	32 to 48
	Blackheaded Budworm	32 to 48	32 to 48
	Jack Pine Budworm	32 to 64	32 to 64
	Mimosa Webworm	16 to 32	
	Saddle Prominent Caterpillar	16 to 32	16 to 32
	Saddleback Caterpillar	16 to 32	16 to 32
	Fruittree Leafroller	16 to 32	
	Forest Tent Caterpillars	16 to 32	16 to 32

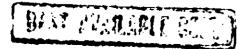
* Ground applications are made at the rate of 100 gallons per acre for hydraulic sprayers. For mist blowers mix the applicable amount in ten (10) gallons of water.

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

Crop	Pest	Qunces / Acre
Grapes	Loopers	32 to 64
Small Fruits	Grape Berry Moth*	32 to 64
Berries	Grapeleaf Skeletonizer*	32 to 64
Hops	Grape Leaffolder	32 to 64
	Saltmarsh Caterpillar*	32 to 64
	Achema Sphinx Moth*	16 to 64
	Omnivorous Leafroller*	32 to 64
	Blueberry Leafroller	16 to 64
	Cherry Fruitworm	16 to 32
	Fruittree Leafroller	16 to 64
	Gypsy Moth	32 to 64
	Green Fruitworm	16 to 64
	Orange Tortrix	32 to 128
	Grape Leafroller	16 to 54
	Spotted Cutworm	32 to 64
	Armyworms**	32 to 128
	Tobacco budworm	32 to 128

Application by ground only.

** BMP 123 (32 LC) may be used to suppress 1st and 2nd instar armyworm larvae when populations are light and full coverage applications are used



Q010	Pest	Ounces / Acre		
		Ground	Air	
Stone Fruits	Tent Caterpillars	32 to 64	32 to 64	
Nut Trees	Cankerworms	16 to 32	16 to 32	
Pomegranates	Fall Webworm	32 to 64	32 to 64	
-	Walnut Caterpillar	16 to 64	16 to 64	
	Redhumped Caterpillar	32 to 64	32 to 64	
		32 to 64		
	Citrus Cutworm	32 to 64	32 to 64	
	Filbert Leafroller	32 to 64	32 to 64	
	Filbert Webworm	32 to 64	32 to 64	

		Ou	nces / Acre
Crop	Pest	Ground	Air
Pome Fruits*	Gypsy Moth	32 to 96	32 to 96
	Cankerworms	16 to 32	16 to 32
	Tent Caterpillars	32 to 64	32 to 64
	Tufted Apple Budmoth	32 to 64	
	Variegated Leafroller	32 to 64	
	Redbanded Leafroller	32 to 64	
Citrus**	Fruittree Leafroller	32 to 64	
	Citrus Cutworm	32 to 64	32 to 64
	Orangedog	16 to 32	
Avocado	Loopers	32 to 128	32 to 128
	Orange Tortrix	32 to 64	32 to 64
	Omnivorous Leafroller	32 to 64	32 to 64
	Amorbia	64	

Crop	Pest		Ounces / Acra	
		Ground		Air
Tropical		001-100		
Fruits***	Hornworm	32 to 128		
Papayas	Leafrollers	32 to 128		
Mangoes Kiwi	Omnivorous Looper	32 to 128		
Persimmons Pomegranate	Loopers	32 to 128		
Bananas****	Banana Skipper	24 to 64		

 Apply BMP 123 (32 LC) in 50-500 gallons / acre for pest suppression in pest management programs.

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** Apply in 100 to 400 gallons per acre.

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- *** 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

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EPA Registration Number: 62637-4 EPA Establishment Number: