

BMP 123 (64 ES)

- Biological Larvicide
- Emulsifiable Suspension

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *kurstaki* Strain BMP 123 solids, spores and insecticidal toxins*22.00%

OTHER INGREDIENTS:78.00%

TOTAL:100.00%

* Equivalent to 17,600 Cabbage Looper Units per milligram (or 64 Billion Cabbage Looper Units per gallon). Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
See back panel for additional precautionary statements and directions for use.	

EPA Reg. No.: 62637-10

EPA Establishment No.: XXXXX-XX-XX

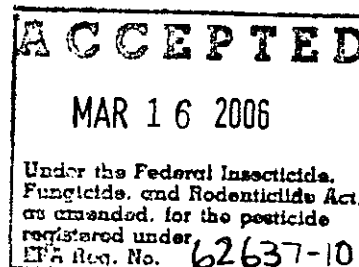
Manufactured for:

Becker Microbial Products, Inc.

11146 NW 69th Place

Parkland, FL 33076

Net Contents: XX



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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) – in general, agricultural plant uses – must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Mixers / loaders and applicators must wear a dust / mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow manufacturer's instructions for cleaning and maintaining PPE. If there are 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 the toilet. Users should remove clothing/ PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: Do not contaminate water when disposing of equipment washwaters. This product must not be applied aerially within ¼ mile of any habitats of endangered species or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.

DIRECTIONS FOR USE

It is a violation of Federal law to apply this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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.

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 intervals (REI). 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 and shoes plus socks.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all of these factors when making decisions.

BMP 123 (64 ES) is a microbial larvicide for use against the listed lepidopterous insects. Close scouting and early attention to insect infestations are recommended. BMP 123 (64 ES) 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 early instars before extensive crop damage occurs. For the control of mixed insect populations or overlapping generations, use BMP 123 (64 ES) in combination with another approved insecticide.
3. Thorough spray coverage with BMP 123 (64 ES) 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, addition of a spreader sticker approved for use on growing and harvested crops will improve coverage and weathering properties.
6. For ground applications, use at least twenty (20) gallons of water per acre. For aerial applications use at least three (3) gallons of water per acre except in California where five (5) to ten (10) gallons are typically used.
7. BMP 123 (64 ES) is a non-restricted use pesticide and does not require a restricted use permit for purchase or use.
8. Tank mixes with contact insecticides may enhance control. This product can not be mixed with any product containing a local prohibition against such mixing. No label dosage rate should be exceeded. Application must be made in accordance with the most restrictive of label limitations and precautions.

Mixing instructions:

Apply BMP 123 (64 ES) in conventional aerial and ground equipment with sufficient water to provide thorough coverage. Apply an approved spreader/stickers to the mix tank after BMP 123 (64 ES) has been mixed with the appropriate amount of water. Always add the desired amount of water to the mix tank before adding the desired quantity of BMP 123 (64 ES).

Mechanical or hydraulic agitation should then be started to provide moderate agitation before BMP 123 (64 ES) is added to the mix tank. Continue agitation and add rinse water from the container. Maintain the suspension while loading and spraying.

Use caution when mixing BMP 123 (64 ES) with other oil based products or surfactants because of an increased risk of phytotoxicity. If unsure test on a small area first. If any phytotoxicity is observed, discontinue use immediately.

When using hand held equipment, mix two teaspoons per gallon of water or two (2) pints per 100 gallons of spray suspension. Spray to wet, but not to runoff.

CHEMIGATION:

Chemigation mixing instructions: Inject BMP 123 (64 ES) undiluted or mixed with water. Follow general mixing directions and keep the ratio at three (3) parts water to one (1) part BMP 123 (64 ES). Mild uniform agitation of the diluted mixture must be provided throughout the chemigation cycle. For undiluted injection, nurse tank, lines, screen canister, and pump must be cleaned and flushed with diesel fuel or non-emulsifiable oil until they are water free before and after application. Use 25 mesh screen and continue agitation during injection. Use 0.15 to 0.5 inches of water per acre. Up to one (1) inches of irrigation can be used but efficacy may be reduced.

Application instructions: Apply this product only through sprinkler system, including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set or hand move. Do not apply this product through any other type of irrigation system. Do not apply when wind speed favors drift beyond the area intended for treatment. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, contact State extension service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for a public water system are in place. A person knowledgeable of the Chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The active ingredient in BMP 123 (64 ES) may settle in the tank and injection lines. Adequate agitation must be provided before and during the injection period. Use only in systems that apply the product uniformly and have appropriate check valves. When application is complete, thoroughly flush the injection system and sprinkler lines.

Instructions for Use of Public Water Sources:

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick closing valve to prevent the flow of fluid back toward the injection pump.

The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump; such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Chemigation System Connected to Public Water System:

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top of the overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functioning interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where the pesticide distribution is adversely affected.

APPLICATION RATE

Crop	Pest	Pints/Acre
Vegetables and commercial crops of the following groups:	Loopers	1 to 2
	Hornworms	1 to 2
Root and Tuber	Imported Cabbageworms	1 to 2
Leaves of Root and Tuber	Diamondback Moth	1 to 2
Bulb	Green Cloverworm	1 to 2
Leafy	Webworms	1 to 2
Brassica (Cole Leafy)	Armyworms*	2 to 4
Legume	Saltmarsh Caterpillar	1 to 2
Foliage of Legume	Heliothis (Helicoverpa) spp.**	1 to 4
Fruiting	Cutworms	1 to 2
Cucurbit (melons, squash, cucumbers, etc)	Pickleworm	2 to 4
	Melonworm	2 to 4
	Rindworm Complex**	1 to 4

* Apply BMP 123 (64 ES) 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.

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Crop	Pest	Pints/Acre
Sunflowers	Loopers	1 to 2
Peanuts	Green Cloverworms	1 to 2
Safflower	Velvetbean Caterpillar	1 to 2
Mint	Podworms*	1 to 2
Canola	Armyworms*	2 to 4
Rape	Diamondback Moth	1 to 2
Cereal Grains	Saltmarsh Caterpillar	1 to 2
Amaranth	Hornworms	1 to 2
Jojoba	(Helicoverpa) spp.**	1 to 4
Okra		
Pawpaw		
Lentils		

* Apply BMP 123 (64 ES) to suppress podworm and armyworms in an integrated pest management program.

** Suppression only.

Crop	Pest	Pints/Acre
Artichokes	Artichoke Plume Moth	2 to 4
	Armyworms	2 to 4
	Loopers	1 to 2
Cotton	Tobacco Budworm*	1 to 4
	Cotton Bollworm*	1 to 4
	Loopers	1 to 2
	Cotton Leaf Perforator	1 to 2
	Cotton Leafworm	1 to 2
	Saltmarsh Caterpillar	1 to 2
	Armyworms	2 to 4

* Use in conjunction with regular scouting in an integrated pest management program when beneficial insects are present. Apply 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, tank mix BMP 123 (64 ES) with an approved ovicide. Use of the resulting tank mix must be accordance with the most restrictive of label limitations and precautions.

Crop	Pest	Pints/Acre
Tobacco	Tobacco Budworm	1 to 4
	Hornworm	½ to 1
	Loopers	1 to 2

Apply BMP 123 (64 ES) in conjunction with sucker control products at the recommended label rates. Observe label precautions for all products used. Apply BMP 123 (64 ES) as necessary to maintain control.

Crop	Pest	Pints/Acre
Greenhouse	Loopers	½ to 1
Flowers	Tobacco Budworm	½ to 1
Ornamentals	Omnivorous Looper	½ to 1
Bedding Plants (Ground Only)	Omnivorous Leafroller	½ to 1
	Diamondback Moth	1 to 2
	Armyworms	2 to 4
	Ello Moth (Hornworm)	½ to 1
	Io Moth	½ to 1
	Oleander Moth	½ to 1
	Azalea Caterpillar	½ to 1

Crop	Pest	Pints/Acre
Pastures, Cereal Grain, Forage, Fodder, Straw, Grass and nongrass commodities	Loopers	1 to 2
	Alfalfa Caterpillar	1 to 2
	European Skipper	¼ to ¾
	Armyworms	2 to 4
Rangeland	Rangeland Caterpillars*	½ to 2½

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

Crop	Pest	Pints/Acre
Ground* and Serial Application**		
Forest	Gypsy Moth	1 to 4
Shade Tree	Eastern Tent Caterpillar	½ to 1
Shrubs	Spruce Budworm	1 to 4
Ornamentals	Douglas Fir Tussock Moth	½ to 2½
Sugar Maple Trees	Western Tussock Moth	½ to 1
	Browntail Moth	½ to 1
	Bagworm	¼ to ½

Spring and Fall Cankerworm	½ to 1
Elm Spanworm	½ to 1
Fall Webworm	½ to 1
California Oakworm	½ to 1
Redhumped Caterpillar	½ to 1
Pine Butterfly	1 to 2
Blackheaded Budworm	1 to 2
Jack Pine Budworm	1 to 2
Mimosa Webworm	½ to 1 (Ground Only)
Saddle Prominent Caterpillar	½ to 1
Saddleback Caterpillar	½ to 1
Fruittree Leafroller	½ to 1 (Ground Only)
Forest Tent Caterpillars	½ to 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.

Crop	Pest	Pints/Acre
Grapes	Loopers	1 to 2
Small Fruits	Grape Berry Moth*	1 to 2½
Berries	Grapeleaf Skeletonizer*	1 to 2½
Hops	Grape Leafroller	1 to 2½
	Saltmarsh Caterpillar*	1 to 2
	Achema Sphinx Moth*	½ to 2½
	Omnivorous Leafroller*	1 to 2½
	Blueberry Leafroller	½ to 2½
	Cherry Fruitworm	½ to 1
	Fruittree Leafroller	½ to 2½
	Gypsy Moth	1 to 4
	Green Fruitworm	½ to 2½
	Orange Tortrix	1 to 2½
	Grape Leafroller	½ to 2½
	Spotted Cutworm	1 to 2½
	Armyworms**	2 to 4
	Tobacco Budworm	1 to 4

- * Application by ground only.
- ** Apply BMP 123 (64 ES) to suppress 1st and 2nd instar armyworm larvae when populations are light and full coverage ground applications are used.

Crop	Pest	Pints/Acre
		Ground* and Serial Application**
Stone Fruits	Tent Caterpillars	1 to 4
Nut Trees	Cankerworms	1 to 4
Pomegranates	Fall Webworm	1 to 4
	Walnut Caterpillar	1 to 4
	Redhumped Caterpillar	1 to 4
	Omnivorous Leafroller	1 to 4 (Ground Only)
	Citrus Cutworm	1 to 4
	Filbert Leafroller	1 to 4
	Filbert Webworm	1 to 4

Crop	Pest	Pints/Acre
		Ground* and Serial Application**
Pome Fruits*	Gypsy Moth	1 to 4
	Cankerworms	1 to 4
	Tent Caterpillars	1 to 4
	Tufted Apple Budmoth	2 to 4 (Ground Only)
	Variegated Leafroller	1 to 4 (Ground Only)
	Redbanded Leafroller	1 to 4 (Ground Only)
Citrus**	Fruittree Leafroller	1 to 4 (Ground Only)
	Citrus Cutworm	1 to 4
	Orangedog	½ to 1 (Ground Only)
Avocado	Loopers	1 to 4
	Orange Tortix	1 to 4
	Omnivorous Looper	1 to 4
	Amorbia	1 to 2

Crop	Pest	Pints/Acre
Ground* and Serial Application**		
Tropical Fruits***		
Papayas	Hornworm	1 to 2¾
Mangoes	Leafrollers	1 to 2¾
Kiwi	Omnivorous Looper	1 to 2¾
Persimmons	Loopers	1 to 2¾
Pomegranates		
Bananas****	Banana Skipper	1 to 2¾

* Apply BMP 123 (64 ES) in 450-500 gallons/acre for pest suppression in pest management programs.

** 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 or disposal.

Storage: Store in a cool (59 – 86° F; 15 – 30° C), 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.

(In case of emergency endangering life and property involving this product, call collect, day or night, (954) 345-9321.)