

LIM LABORATORIES, INC.  
 EnCapide  
 BIOLOGICAL INSECTICIDE  
 FLOWABLE CONCENTRATE  
 For Control of Insect Pests of Vegetables  
 Fruit and Field Crops

**ACCEPTED**  
 APR 04 1994  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 66296-4

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies kurstaki strain BMP-123  
 Potency of 3,100 International Units  
 per milligram ..... 0.6%

INERT INGREDIENTS: ..... 99.4%

TOTAL 100.00%

\*Equivalent to 12 Billion International Units per Gallon

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

**KEEP OUT OF REACH OF CHILDREN**

**C A U T I O N**

**STATEMENTS OF PRACTICAL TREATMENT**

If on skin: Wash with plenty of soap and water. Get medical attention.  
 If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.  
 If in Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Lim Laboratories, Inc.  
 Crop Protection & Pest Control Products  
 409 E. Main Street  
 Richmond, VA 23219

EPA REGISTRATION No. 66296-4  
 EPA ESTABLISHMENT No. 66296-VA-001

NET CONTENTS 1 quart, 1 gallon, 2.5 gallons, 5 gallons,  
55 gallons

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS  
CAUTION

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust (vapor or spray mist). Avoid contact with skin, eyes or clothing.

**Personal Protective Equipment:** 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 the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters

DIRECTIONS FOR USE

It is a violation of Federal Law to use 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.



AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR 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 protection equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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.

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  
socks and shoes

Do not apply this product through any type of irrigation system.

**EnCapcide** is a biological insecticide for the control of lepidopterous larvae (see Recommended Application Rates section).

**EnCapcide** may be applied for control of any labeled pest in both field and greenhouse uses.

**EnCapcide** attacks the larval gut and must be ingested by the insect to be effective.

MIXING

Always mix **EnCapcide** thoroughly before use by shaking or stirring. If using spray adjuvants, add the recommended amounts of the adjuvants to 3/4 volume of the required spray before filling tank. Mix thoroughly. Then add the recommended amount of **EnCapcide**. Be sure to maintain agitation. Finally, add the balance of water and agitate until mixed. Be sure to maintain agitation while loading and spraying to prevent the formulation from settling.

When possible, apply early morning or evening in calm air conditions.

Do not allow dilute sprays to remain in the tank for more than 12 hours. Loss of activity of **EnCapcide** may result.

**GROUND APPLICATION**

Unless otherwise stated, use recommended amount of **EnCapcide** in a minimum of 20 gallons of water per acre depending on type of crop and requirements of state regulations.

**AERIAL APPLICATION**

Use recommended amount of **EnCapcide** in at least 5 gallons of water per acre. Applications at higher water volumes have demonstrated improved control of targeted pests. Apply early morning or evening when air is calm.

**GENERAL USE INSTRUCTIONS**

For most consistent control apply at first sign of newly hatched worms (1st and 2nd instar larvae).

Reapply as necessary under a pest management program that includes close scouting.

For heavy worm infestations use the higher **EnCapcide** rate. During situations of dense foliage and/or rapid growth, increasing water carrier volumes will provide better crop coverage and improve **EnCapcide** performance.

The pH of the spray solution should be held within a range of 5.2 to 6.8. Use a buffering agent when spray water has a pH exceeding 7.5.

For application on hard-to-wet crops such as cole crops or under heavy dew or rainy conditions, a spreader/sticker approved for use on growing crops should be added to the tank mix to improve coverage and weathering properties.

## RECOMMENDED APPLICATION RATES

VEGETABLE CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Artichokes	Artichoke Plume Moth	2	Apply in a minimum of 100 gal. of water per acre with a spray interval of 10 days or less
	Armyworm	2	
	Loopers	2	
Asparagus	Armyworm	1-2	Repeat as necessary to maintain control
Beans (Green, Lima, Mung)			
Broccoli	Diamondback Moth	1	
Brussel Sprouts	Green Cloverworm	1/2-1	
Cabbage	Hornworms	1/2-1	
Cardoon			
Carrots	Imported		
Cauliflower	Cabbageworm	1/2-1	
Celeriac	Loopers	3/4-1 1/2	
Celery			
Chick Peas			
Chinese Broccoli			
Chinese Cabbage	Salt Marsh	1-2	
Collards	Caterpillar		
Cucumbers			
Dry Bulb Onions			
Eggplants	European Corn	1-2	
Garlic	Borer		
Green Onions			
Greens (Dandelion, Turnip, Mustard, Beet, China)			
Herbs (Basil), Cilantro, Dill, Oregano, Thyme, etc.)			
Horseradish			
Kale			
Kohl Rabi			
Leeks			
Lettuce (Endive, Romaine, Head Lettuce, Escarole Butter Crunch, Leaf, etc.)			

RECOMMENDED APPLICATION RATES

VEGETABLE CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
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Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.)			
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Okra

Onions

Parsley

Parsnips

Peas

Peppers

Potatoes

Pumpkins

Radishes

Rutabaga

Salsify

Spinach

Squash (Summer  
and Winter)

Sweet Corn

Sweet Potatoes

Swiss Chard

Table Beets

Tomatoes

Turnip Root

Watercress

Yams



RECOMMENDED APPLICATION RATES

FRUIT, NUT, & VINE CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS	
Apples and Pears	Fruittree	1-2	Apply when newly hatched larvae appear and before leaves are rolled. Continue applying as a part of the normal cover spray program until pest is adequately controlled.	
	Leafroller			
	Gypsy Moth	1-2		
	Redbanded			
	Leafroller	1-2		
	Tufted Apple			
	Budmoth	1-2		
	Variegated			
	Leafroller	1-2		
Omnivorous	Leafroller	1-2	Apply when caterpillars are actively feeding. (2nd-4th) instars).	
	Tent Caterpillar	1-2		
Avocados	Loopers	2	Apply as necessary to maintain control.	
	Orange Tortrix	1-2		
	Omnivorous			Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.
	Leafroller	1-2		
	Amorbia	2	Suppression only.	
Bananas	Banana		Hawaii only. Use calibrated ground equipment with adequate water to apply to point of runoff.	
	Skipper	1-2		
Citrus	Citrus Cutworm	1-2	Use 50-600 gallons of water per acre when using ground equipment and 10 gallons of water minimum per acre by air.	
	Fruittree			
	Leafroller	1-2		
	Orangedog	1/2-1		
	Amorbia	2		Suppression only.

RECOMMENDED APPLICATION RATES

FRUIT, NUT, & VINE CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS	
Blueberries	Blueberry	1-2	Apply by ground equipment only. Begin treatment as soon as possible after hatching. For leafrollers, apply before larvae are protected by leaf folds.	
Caneberries	Leafroller			
Currants	Cherry Fluitworm	1/2-1		
Kiwi	Fruittree			
	Leadfroller			
	Gypsy Moth	1-2		
	Green Fruitworm	1/2-1		
	Loopers	3/4-1 1/2		
	Orange Tortrix	1-2		
	Omnivorous Leafroller	1-2		
Grapes	Grape Leaffolder	1-2	Apply by ground equipment in up to 200 gallons total spray per acre to obtain thorough coverage of leaf surfaces. Start treating as soon as possible after hatching and before larvae are protected by leaf folds.	
	Grapeleaf Skeletonizers	1-2		
	Omnivorous Leafroller	1-2		
	Orange Tortrix	1-2		
	Saltmarsh Caterpillar	1-2		
Almonds	Fall Webworm	1-2		For leafrollers, start treating as soon as possible after hatching and before larvae are protected by leaf folds. Apply when caterpillars are actively feeding (2nd to 4th instar).
Apricots	Filbert Webworm	1-2		
Cherries	Omnivorous			
Filberts	Leafroller	1-2		
Nectarines	Citrus Cutworm	1-2		
Peaches	Redhumped	1-2		
Pecans	Caterpillar	1-2		
Persimmons	Tent Caterpillar	1-2		
Plums				
Pomegranate				
Prunes				
Walnuts				
Melons (Also see Vegetables)	Rindworm Complex	1-2	Apply at first sign of hatch before larvae enter fruit. Repeat as necessary to maintain control.	



RECOMMENDED APPLICATION RATES

FRUIT, NUT, & VINE CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Strawberries	Armyworm	2	Apply as necessary maintain control. 20 gallons water minimum /acre when using ground equipment and 5 gallons water minimum per acre by aircraft.
	Gypsy Moth	1-2	
	Looper	3/4-1 1/2	
	Roughskinned	1-2	
	Cutworm	1-2	

RECOMMENDED APPLICATION RATES

FIELD CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Alfalfa (Hay and Seed) Sudan Grass Hay Crops & Other Forage Crops	Alfalfa Caterpillar Armyworm Loopers	1/2-1 1 1/2-2 1-1 1/2	Under conditions of rapid plant growth rapidly increasing armyworm populations (10 worms or greater per 180 degree sweep) use the highest rate. Against heterogenous worm populations, where 4th and 5th instars are present, and continuous egg laying, applications may provide variable control.
Small Grains	Armyworm	1 1/2-2	Apply as necessary to maintain control.
Hops	Loopers Omnivorous Leaftier Spotted Cutworm Oblique Banded Leafroller	3/4-1 1/2 1-2 1-2 1-2	Apply as necessary to maintain control  Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.

RECOMMENDED APPLICATION RATES

FIELD CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Canoia	Armyworm	1-2	Apply as necessary to maintain control.
	Diamondback Moth	1	
Field Corn Pop Corn Seed Corn	Armyworm	1 1/2-2	Make initial Application when economically damaging populations exist. Repeat as necessary to maintain control. Applications must be made to early instars prior to entering the ear or plant. Aids in control.
	Southwestern Corn Borer	2	
	European Corn Borer	2	
Jojoba	Looper (Anacamptodes spp.)	1-2	Apply in minimum 50 gal. of water per acre by ground equipment or a minimum of 10 gal. of water by aerial equipment. Thorough coverage foliage is essential and dictates the minimum spray volumes necessary.

RECOMMENDED APPLICATION RATES

FIELD CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Dry Beans and Peas	Armyworms Green	1-2	Apply as necessary to maintain control.
Lentils	Cloverworm	1/2-1	
Mint			
Peanuts	Loopers	3/4-1 1/2	
Rice	Salt Marsh	1-2	
Safflower	Caterpillar		
Soybeans	Velvetbean	1/2-1	
Sugar Beets	Caterpillar		
Sunflower	Heliothis spp.	2	Suppression only
	Cutworm	1-2	
Tobacco	Looper	3/4-1 1/2	Apply as necessary to maintain control.
	Tobacco Hornworm	1/2-1	
	Tobacco Budworm	2	Suppression only

RECOMMENDED APPLICATION RATES

COTTON - Except Arizona and California

TIMING	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Early	Bollworm Tobacco Budworm	1-2	For early season management of <u>Heliothis</u> species. Initiate applications when 50% of plants are at pinhead square cotton stage, independent of <u>Heliothis</u> egg and larval counts, or at 1st egg lay, whichever occurs earlier. Continue applications on 5-day spray interval.

RECOMMENDED APPLICATION RATES

COTTON		RATE	ADDITIONAL
TIMING	INSECT	QTS./ACRE	INSTRUCTIONS
Early and Mid-Season	Armyworm	2	Repeat as necessary throughout season to maintain control. If egg laying frequency indicates future moderate to heavy worm populations, time application spray to coincide with the 2nd instar larvae. During periods of high temperatures, worms will progress through 1st and 3rd instars very rapidly and early application timing is necessary for control.  To be effective, <b>EnCapcide</b> spray must be deposited at the larval feeding site. When plant cover is dense and worms are feeding in the lower 2/3 portion of the plant, aerial application of <b>EnCapcide</b> may not provide adequate control.
	Cotton Leaf Perforator	1-2	
	Cotton Leafworm	1-2	
	Loopers	1-2	
	Saltmarsh Caterpillar	1-2	
	Bollworm	1-2	
	Tobacco Budworm	1-2	

RECOMMENDED APPLICATION RATES

SHADE TREES, ORNAMENTALS (Including Roses)

PESTS	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Spring and Fall Cankerworm Elm Spanworm Test Caterpillar Gypsy	1/2-1 1/2-1 1/2-1 1-2	Apply when leaf expansion reaches 40% to 50% as infestation warrants. If eggs hatch over a long period of time, or if reinfestation occurs, spray about 14 days after first applications.
Spruce Budworm	1-2	Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure.
Jackpine Budworm Douglas Fir Tussock Moth Bagworm California Oak Moth Western Tussock Moth Fruit Tree Leafroller Mimosa Webworm Redhumped Caterpillar Fall Webworm Armyworm	1/2-1 1/2-1 1/2-1 1/2-1 1/2-1 1/2-1 1/2-1 1/4-3/4 1/4-1/2 2	Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.

TURF AND GRASS SEED PRODUCTION

Tropical Sodwebworm  
Armyworm  
Sodwebworm

2  
2  
2

Repeat as necessary  
throughout season to  
maintain control.



S T O R A G E   A N D  
D I S P O S A L

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

STORAGE

Store in original container in a cool, dry place inaccessible to children and pets and away from heat and direct sunlight. Protect from freezing. Storage at temperature above 90° F may impair effectiveness.

DISPOSAL

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

CONTAINER DISPOSAL

Glass Containers: Triple rinse container. Then dispose of in a sanitary landfill or by other approved State and local procedures.

Metal Containers: Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Plastic Containers: Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

Lim warrants that its **EnCapcide** contains the ingredients listed on this label. Lim makes no other warranties, expressed or implied. Including without limitation, any warranty of merchantability or fitness for a particular purpose.