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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
66296-6

Date of Issuance:  
JAN 17 1996

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

Term of Issuance: Conditional

(under FIFRA, as amended)

165/5507114  
18

Name of Pesticide Product:

EnCapcide™ III  
Biological  
Insecticide Flowable  
Concentrate

Name and Address of Registrant (include ZIP Code):

Lim Laboratories, Inc.  
3001 W. Moore Street  
Richmond, VA 23230

Note: Changes in labeling 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 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 is in no way 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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

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

2. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 66296-6."
- b. Change the restricted-entry interval from 12 hours to 4 hours.
- c. Modify the heading "RECOMMENDED APPLICATION RATES" to read "APPLICATION RATES."
- d. Modify the container disposal section to list specific instructions for disposal of metal, plastic and glass containers exactly as put forth in Appendix A of PR.

Signature of Approving Official:

CONCURRENCES

Date:

SYMBOL	7501W	7501W					
SURNAME	Manders	HAYON					
DATE	12/21/96	1/18/96					

2. d. cont.

Notice 83-3. Paper containers can not be used for this product until an amendment application containing a more detailed description of the container and appropriate disposal instructions is submitted and approved.

3. Submit two copies of the revised final printed label for the record.

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.

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

Sincerely,

*Janet L. Andersen*

Janet L. Andersen  
Acting Director  
Biopesticides and Pollution  
Prevention Division (7501W)

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

3/12

# EnCapcide™ III

BIOLOGICAL INSECTICIDE  
Flowable Concentrate Based on the  
AGCAP™ Microencapsulation System

For Control of Insect Pests of Vegetables  
Fruits, Shade Trees and Field Crops

Active Ingredient

Bacillus thuringiensis variety kurstaki strain BMP-123 potency of  
4,500 International Units per milligram\* ..... 0.9%

Inert Ingredients: ..... 99.1%  
100.0%

\*Equivalent to 18 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**  
**CAUTION**  
See Back Panel for Additional Precautionary Statements

Lim Laboratories, Inc.  
AGBIO Division  
3001 W. Moore St.  
Richmond, VA 23230

EPA Reg. No. 66296-A  
EPA Est. No. 66296-VA-001

NET CONTENTS 32 Fl. Oz. (1 Quart) .....  
16 Fl. Oz. (Pint), 2.5 Gal., 5 Gal., 10 Gal., 30 Gal., 55 Gal. ....

EnCapcide™ and AGCAP™ are trademarks of Lim Laboratories, Inc. ....

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**

JAN 17 1996  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
66296-A

**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 (PPE):** Applicators and other handlers must wear:

Long-sleeved shirt and pants

Waterproof gloves

Shoes plus 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.

**Statement 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.

**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.

**GENERAL INFORMATION**

**Mode of Action:** EnCapcide™ attacks the larval gut and must be ingested to be effective.

**Residual Activity:** This product is based on the AGCAP encapsulation system which increases the residual activity of the active ingredient by providing it with protection from rapid environmental degradation.

**Insects Controlled:** EnCapcide™ is a biological insecticide for the control of caterpillars and worms (Lepidopterous larvae). (See Recommended Application Rates section.)

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Refer to the Directions for Use Booklet attached to this container for further directions.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standards, 40CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions For Use section for information about this standard.

**STORAGE AND DISPOSAL**

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:** 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.

**DIRECTIONS FOR USE BOOKLET**  
**EnCapcide™ III**  
**BIOLOGICAL INSECTICIDE**  
**Flowable Concentrate Based on the AGCAP™**  
**Microencapsulation System**

**For Control of Insect Pests of Vegetables,  
Fruits and Field Crops**

**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). 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.

**Entry Restrictions:** Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**Personal Protective Equipment Requirements:**

**Handlers:** Pesticide handlers must wear the PPE listed elsewhere in the product labeling for applicators.  
**Early Entry PPE:** 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

This labeling must be in the possession of the user at the time of pesticide application.

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

EnCapcide™ is a biological insecticide specific for the control of caterpillars and worms (Lepidopterous larvae). (See Recommended Application Rates section).

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

**Notice:** Read "Warranty" on the container before buying or using. If terms are not acceptable, return at once unopened.

### GENERAL USE INSTRUCTIONS

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

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.

In applications 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.

### MIXING

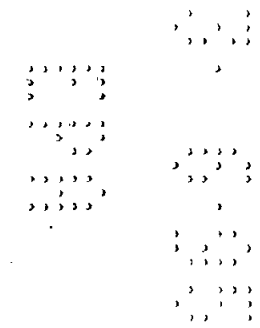
Always mix EnCapcide™ thoroughly before use by shaking or stirring. If using spray adjuvants, add the recommended amounts of the adjuvants to 3/4 volume of the required water before filling tank. Mix thoroughly. Then add the recommended amount of EnCapcide™. Be sure to maintain agitation. Finally, add 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.



RECOMMENDED APPLICATION RATES

VEGETABLE CROPS

CROP: Artichokes		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Artichoke Plume Moth	1 1/2 (24)	Apply in a minimum of 100 gal. of water per acre with a spray interval of 10 days or less.
Armyworm	1 1/2 (24)	
Loopers	1 1/2 (24)	

CROP: Asparagus, Beans (Green, Lima, Mung), Broccoli, Brussels Sprouts, Cabbage, Cardoon, Carrots, Cauliflower, Celeriac, Celery, Chick Peas, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Dry Bulb Onions, Eggplants, Garlic, Green Onions, Greens (Dandelion, Turnip, Mustard, Beet, Chive), Herbs (Basil, Cilantro, Dill, Oregano, Thyme, etc.), Horseradish, Kale, Kohl Rabi, Leeks, Lettuce (Endive, Romaine, Head Lettuce, Escarole, Butter Crunch, Leaf, etc.), Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.), 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.		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Armyworm	3/4-1 1/2 (12-24)	Repeat as necessary to maintain control.
Diamondback Moth	3/4 (12)	
Green Cloverworm	3/8-3/4 (6-12)	
Hornworms	3/8-3/4 (6-12)	
Imported Cabbageworm	3/8-3/4 (6-12)	
Loopers	5/8-1 1/8 (10-18)	
Salt Marsh Caterpillar	3/4-1 1/2 (12-24)	
European Corn Borer	3/4-1 1/2 (12-24)	

FRUIT, NUT, & VINE CROPS

CROP: Apples and Pears		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Fruittree Leafroller	3/4-1 1/2 (12-24)	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.
Gypsy Moth	3/4-1 1/2 (12-24)	
Redbanded Leafroller	3/4-1 1/2 (12-24)	
Tufted Apple Budmoth	3/4-1 1/2 (12-24)	
Variiegated Leafroller	3/4-1 1/2 (12-24)	
Omnivorous Leafroller	3/4-1 1/2 (12-24)	
Tent Caterpillar	3/4-1 1/2 (12-24)	Apply when caterpillars are actively feeding (2nd-4th) instars.

CROP: Avocados		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Loopers	1 1/2 (24)	Apply as necessary to maintain control.
Orange Tortrix	3/4-1 1/2 (12-24)	
Omnivorous Leafroller	3/4-1 1/2 (12-24)	Begin treatment as soon as possible after hatching and before larvae are protected by leaf.
Amorbia	1 1/2 (24)	Suppression only.

CROP: Bananas		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Banana Skipper	3/4-1 1/2 (12-24)	Hawaii only. Use calibrated ground equipment with adequate water to apply to point of runoff.

CROP: Citrus		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Citrus Cutworm	3/4-1 1/2 (12-24)	Use 50-600 gallons of water per acre when using ground equipment and 10 gallons of water minimum per acre by air.
Fruittree Leafroller	3/4-1 1/2 (12-24)	
Orangedog	3/8-3/4 (6-12)	
Amorbia	1 1/2 (24)	Suppression only.

CROP: Blueberries, Cranberries, Currants, Kiwi		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Blueberry Leafroller	3/4-1 1/2 (12-24)	Apply by ground equipment only. Begin treatment as soon as possible after hatching. For leafrollers, apply before larvae are protected by leaf folds.
Cherry Fruitworm	3/8-3/4 (6-12)	
Fruittree Leafroller	3/8-3/4 (6-12)	
Gypsy Moth	3/4-1 1/2 (12-24)	
Green Fruitworm	3/8-3/4 (6-12)	
Orange Tortrix	5/8-1 1/8 (10-18)	
Omnivorous Leafroller	3/4-1 1/2 (12-24)	

CROP: Grapes		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Grape Leafroller	3/4-1 1/2 (12-24)	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.
Grape Skeletonizers	3/4-1 1/2 (12-24)	
Omnivorous Leafroller	3/4-1 1/2 (12-24)	
Orange Tortrix	3/4-1 1/2 (12-24)	
Salt Marsh Caterpillar	3/4-1 1/2 (12-24)	



CROP: Almonds, Apricots, Cherries, Filberts, Nectarines, Peaches, Pecans, Persimmons, Plums, Pomegranate, Prunes, Walnuts		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Fall Webworm	3/4-1 1/2 (12-24)	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).
Filbert Webworm	3/4-1 1/2 (12-24)	
Omnivorous Leafroller	3/4-1 1/2 (12-24)	
Citrus Cutworm	3/4-1 1/2 (12-24)	
Redhumped	3/4-1 1/2 (12-24)	
Caterpillar	3/4-1 1/2 (12-24)	
Tent Caterpillar	3/4-1 1/2 (12-24)	

CROP: Melons (Also see Vegetables)		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Rindworm Complex	3/4-1 1/2 (12-24)	Apply at first sign of hatch before larvae enter fruit. Repeat as necessary to maintain control.

CROP: Strawberries		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Armyworm	1 1/2 (24)	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	3/4-1 1/2 (12-24)	
Looper	5/8-1 1/8 (10-18)	
Roughskinned Cutworm	3/4-1 1/2 (12-24)	

**FIELD CROPS**

CROP: Alfalfa (Hay and Seed), Sudan Grass, Hay Crops & Other Forage Crops		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Alfalfa Caterpillar	3/8-3/4 ((6-12)	Under conditions of rapid plant growth rapidly increasing armyworm populations (10 worms or greater per 180 degree sweep) use the highest rate. Against heterogeneous worm populations, where 4th and 5th instars are present, and continuous egg laying, applications may provide variable control.
Armyworm	1 1/8-1 1/2 (18-24)	
Loopers	3/4-1 1/8 (12-24)	

CROP: Small Grains		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Armyworm	1 1/8-1 1/2 (18-24)	Apply as necessary to maintain control.

CROP: Hops		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Loopers	5/8-1 1/8 (10-18)	Apply as necessary to maintain control
Omnivorous Leaf-tier	3/4-1 1/2 (12-24)	
Spotted Cutworm	3/4-1 1/2 (12-24)	Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.
Oblique Banded Leafroller	3/4-1 1/2 (12-24)	

CROP: Canola		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Armyworm	3/4-1 1/2 (12-24)	Apply as necessary to maintain control.
Diamondback Moth	3/4 (12)	

CROP: Field Corn, Pop Corn Seed Corn		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Armyworm	1 1/8-1 1/2 (18-24)	Make initial application when economically damaging population exist. Repeat as necessary to maintain control. Applications must be made to early instars prior to entering the ear or plant.
Southwestern Corn Borer	1 1/2 (24)	
European Corn Borer	1 1/2 (24)	Aids in control.

CROP: Jojoba		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Looper (Anacamptodes spp.)	3/4-1 1/2 (12-24)	Apply in minimum 50 gal. of water per acre by ground equipment or minimum of 10 gal. of water by aerial equipment. Thorough coverage foliage is essential and dictates the minimum spray volumes necessary.

CROP: Dry Beans and Peas, Lentils, Mint, Peanuts, Rice, Safflower, Soybeans, Sugar Beets, Sunflower		
Insect	Rate:quarts/acre (ounces/acre)	Additional Instructions
Armyworms	3/4-1 1/2 (12-24)	Apply as necessary to maintain control.
Green Cloverworm	3/8-3/4 (6-12)	
Loopers	5/8-1 1/8 (10-18)	
Salt Marsh Caterpillar	3/4-1 1/2 (12-24)	
Velvetbean Caterpillar	3/8-3/4 (6-12)	
Heliothis spp.	1 1/2 (24)	Suppression only.
Cutworm	3/4-1 1/2 (12-24)	



