

UNITED STAPES ENVIRONMENTAL PROTEC ION ROENCY

Registration Division (7505C) 401 "M" St., S.W.

Washington, D.C. 20460

NOTICE OF PESTICIDE:

<u>x</u> Registration ___ Reregistration

(under FITRA, as amended)

Date of Issuance:

UUL 12 1994

66296-2

Term of Issuance:

Conditional

Name of Posticide Product:

EnCapcide II Biological Insecticide Flowable Concentrate

Name and Address of Registrant (include ZIP Code):

Lim Laboratories, Inc. 409 E. Main Street Richmond, VA 23219

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be subsitted 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 Loove 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 is 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:

- 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.
 - Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 66296-2".
 - b. On page 2, replace "ppesticide" with "pesticide".
 - c. On page 14, move the words "portion" and "aerial" to the right column.
 - d. On page 16 replace "EnCapcide" with "EnCapcide II".

Signature of Approving Official:	P. Z	Date:	7/12/	54
	CONCURR	ENCES		
SYMBO.) 7505C				
SURNAME STORE 8370 6				
DATE	_			
EPA Form 1320-1A (1/00)	Printed P			OFFICIAL FILE COP

)

Page 2 EnCapcide II Notice of Registration AGENCY EPA Reg. No. 66296-2

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,

Phillip Hutton

Product Manager 18

Insecticide-Rodenticide Branch Registration Division (7505C)

		CONCU	RRENCES		
SYMBOL					
SURNAME					
DATE		Ţ	•••••	***********	

VCCCALED with COMMENTS in EnA Letter Duted

4.

)

)

LIM LABORATORIES, INC.

EnCapcide II

BIOLOGICAL INSECTICIDE

FLOWABLE CONCENTRATE

per use recersi insecurius, and Ricerucide Act and Ricerucide Act and Ricerucide Regulated and ETA Reg. No. For Control of Insect Pests of Vegetables,

Fruit and Field Crops

ACTIVE INGREDIENT:

the Federal Insecticides

Bacillus thuringiensis subspecies kurstaki strain BMP-123 Potency of 6,000 International Units per milligram 1.2%

INERT INGREDIENTS: 98.8%

TOTAL 100.00%

*Equivalent to 24 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

STATEMENTS OF PRACTICAL TREATMENT

If on skin: Wash with plenty of soap an water. Get medical astention.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. 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-

EPA ESTABLISHMENT No. 66296-VA-001

1 quart, 1 gallon, 2.5 gallons, 5 gallons, NET CONTENTS 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 ppesticide 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 vay 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 II is a biological insecticide for the control of lepidopterous larvae (see Recommended Application Rates section)

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

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

MIXING

Always mix EnCapcide^{IM} II 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 perore filling tank. Mix thoroughly. Then add the recommended amount of EnCapcide^{IM} II. 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^{IM} II** may result.

GROUND APPLICATION

Unless otherwise stated, use recommended amount of EnCapcideTM II 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 EnCapcideTM II 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).

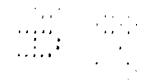
Reapply as necessary under a pest management program that includes close scouting.

For heavy worm infestations use the higher EnCapcideTM II rate. During situations of dense foliage and/or rapid growth, increasing water

carrier volumes will provide better crop coverage and improve EnCapcide II 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.



VEGETABLE CROPS				
CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS	
Artichokes	Artichoke Plume Moth	1	Apply in a minimum of 100 gal. of water per	
	Armyworm Loopers	1	acre with a spray interval of 10 days or less	
Asparagus Beans (Green, Lima,	Armyworm	ነ - 1	Repeat as necessary to maintain control	
Mung) Broccoli Brussel Sprouts Cabbage	Diamondback Moth Green Cloverworm Hornworms	1/2 1/4 - 1/2 1/4 - 1/2		
Cardoon Carrots Cauliflower Celeriac	Imported Cabbageworm Loopers	\frac{1}{4} - \frac{1}{2} 3/8 - 3/4		
Celery Chick Peas Chinese Broccoli Chinese Cabbage Collards	Salt Marsh Caterpillar	½ - 1		
Cucumbers Dry Bulb Onions Eggplants Garlic	European Corn Borer	½ - 1		
Green Onions Greens (Dandelion, Turnip, Mustard, Beet, China)				
Herbs (Basil), Cilantro, Dill, Oregano, Thyme, e Horseradish	tc.)			
Kale Kohl Rabi Leeks				
Lettuce (Endive, Romaine, Head Lettuce, Escarole Butter Crunch,				
Leaf, etc.)				

VEGETABLE CROPS

CROP

)

INSECT

RATE QTS./ACRE ADDITIONAL INSTRUCTIONS

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

FRUIT, NUT, & VINE	CROPS	RATE	A DOTMI ONA I
CROP	INSECT	QTS./ACRE	ADDITIONAL INSTRUCTIONS
Apples and Pears	Fruittree Leafroller	¹3 - 1	Apply when newly hatched larvae appear
	Gypsy Moth Redbanded	1/2 - 1	and before leaves are rolled. Continue
	Leafroller Tufted Apple	ነ - 1	applying as a part of the normal cover spray
	Budmoth Variegated	\frac{1}{3} - 1	program until pest is adequately controlled.
	Leafroller Omnivorous	½ - 1	
ì	Leafroller Tent Caterpillar	½ - 1 ½ - 1	Apply when caterpillars are actively feeding (2nd to 4th instars).
Avocados	Loopers Orange Tortrix	1 2 - 1	Apply as necessary to maintain control.
	Omnivorous Leafroller	½ - 1	Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.
	Amorbia	1	Suppression only.
Bananas	Banana Skipper	¹ / ₂ - 1	Hawaii only. Use calibrated ground equipment with idequate water to apply to point of runoff.
Citrus	Citrus Cutworm Fruittree Leafroller Orangedog	\frac{1}{2} - 1 \frac{1}{2} - 1 \frac{1}{4} - \frac{1}{2}	Use 50-600 gallons of water per acre when using ground equipment and 10 gallons of water minimum per acre by air.
	Amorbia	1	Suppression only.

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Blueberries Caneberries	Blueberry Leafroller	1/2 - 1	Apply by ground
Currants Kiwi	Cherry Fluitworm Fruittree	₹ - ₹	equipment only. Begin treatment as soon as possible
	Leadfroller Gypsy Moth	ኔ - 1	after hatching. For leafrollers, apply
	Green Fruitworm Loopers	$\frac{1}{4} - \frac{1}{4}$ 3/8 - 3/4	before larvae are protected by leaf
	Orange Tortrix Omnivorous	½ - 1	folds.
	Leafroller	½ - 1	
Grapes	Grape Leaffolder Grapeleaf	1/3 - 1	Apply by ground equipment in up to
)	Skeletonizers Omnivorous	½ - 1	200 gallons total spray per acre to
	Leafroller	½ - 1	obtain thorough
	Orange Tortrix	½ - 1	coverage of leaf
	Saltmarsh Caterpillar	½ - 1	surfaces. Start treating as soon as possible after hatching and before larvae are protected by leaf folds.
Almonds	Fall Webworm	1/2 - 1	For leafrollers,
Apricots	Filbert Webworm	½ - 1	start treating as
Cherries	Omnivorous	٠ -	soon as possible
Filberts Nectarines	Leafroller	1/2 - 1	after hatching and
Peaches	Citrus Cutworm Redhumped	½ - 1 ½ - 1	before larvae are protected by leaf
Pecans	Caterpiller	½ - 1	folds.
Persimmons	Tent Caterpillar	½ - 1	Apply when
Plums	10		caterpillars are
Pomegranate			actively feeding
Prunes			(2nd to 4th instar)
Walnuts			•
Melons (Also see Vegetables)	Rindworm Complex	े - 1	Apply at first sign of hatch before larvae enter fruit. Repeat as necessary to maintain control

FRUIT, NUT, & VI	NE CROPS		
CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Strawberries	Armyworm Gypsy Moth	1	Apply as necessary to maintain control.
	Looper Roughskinned Cutworm	3/8 - 3/4 ½ - 1	20 gallons water minimum /acre when using ground equipment and 5 gallons water minimum per acre by aircraft.

FIELD CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Alfalfa (Hay and Seed) Sudan Grass Hay Crops & Other Forage Crops	Alfalfa Caterpillar Armyworm Loopers	$\frac{1}{4} - \frac{1}{2}$ $\frac{3}{4} - 1$ $\frac{1}{2} - \frac{3}{4}$	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	3/4 - 1	Apply as necessary to maintain control.
Hops	Loopers Omnivolus Leaftier Spotted Cutworm Oblique Banded Leafroller	$\frac{3/8 - 3/4}{\frac{1}{2} - 1}$ $\frac{1}{2} - 1$ $\frac{1}{2} - 1$	Apply as necessary to maintain control Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.

FIELD CROPS

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Canola	Armyworm Diamondback Moth	\frac{1}{5} - 1	Apply as necessary to maintain control.
Field Corn Pop Corn Seed Corm	Southwestern Corn Borer European Corn Borer	3/4 - 1 1 1	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.
Jojoba)	Looper (Anacamptodes spp.)	½ - 1	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 of foliage is essential and dictates the minimum spray volumes necessary.

FIELD CROPS

)

CROP	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Dry Beans	Armyworms	½ - 1	Apply as necessary to maintain control.
and Peas Lentils Mint	Green Cloverworm	1 - 1	to maintain control.
Peanuts	Loopers	3/8 - 3/4	
Rice Safflower	Salt Marsh Caterpillar	½ - 1	
Soybeans Sugar Beets	Velvetbean Caterpillar	\frac{1}{4} - \frac{1}{2}	
Sunflower	Heliothis spp.	1	Suppression only
	Cutworm	½ - 1	
Tobacco	Looper	3/8 - 3/4	Apply as necessary
	Tobacco Hornworm	14 - 15	to maintain control.
	Tobacco Budworm	1	Suppression only

COTTON - Except Arizona and California

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

COTTON TIMING	INSECT	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Early and Mid-Season	Armyworm Cotton Leaf Perforator Cotton Leafworm Loopers Saltmarsh Caterpillar	1 \(\frac{1}{2} - 1 \) \(\frac{1}{2} - 1 \) \(\frac{1}{2} - 1 \)	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.
portion aerial			To be effective, EnCapcide TM II spray must be deposited at the larval feeding site. When plant cover is dense and worms are feeding in the lower 2/3 of the plant, application of EnCapcide TM II may not provide adequate control.
	Bollworm Tobacco Budworm	\frac{1}{2} - 1 \frac{1}{2} - 1	For the suppression of light to moderate infestations, apply to first sign of egg laying or newly hatched worms (1st instar larvae).

SHADE TREES, ORNAMENTALS (Including Roses)

PESTS	RATE QTS./ACRE	ADDITIONAL INSTRUCTIONS
Spring and Fall Cankerworm Elm Spanworm Tent Caterpillar Gypsy	\frac{1}{4} - \frac{1}{2} \frac{1}{4} - \frac{1}{2} \frac{1}{4} - \frac{1}{2} \frac{1}{4} - \frac{1}{2} \frac{1}{2} - 1	Apply when leaf expansion reaches 40% to 50% as infestation warrants. If eggs hatch over a long period of time, or if reinfestation
Spruce Budworm	½ - 1	occurs, spray about 14 days after first applications. 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 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.
TURF AND GRASS SEED PRODUCTION Tropical Sodwebworm Armyworm Sodwebworm	1 1 1	Repeat as necessary throughout season to maintain control.

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

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.