

PM 90 58788-5

page 1 of 2

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 245469
	Application for Pesticide - Section I		

1. Company/Product Number 58755-5 58788-5	2. EPA Product Manager Phil Hutton	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ® GEMSTAR LC	PM# 18	
5. Name and Address of Applicant (Include ZIP Code) Crop Genetics International c/o biosys, Inc. 10150 Old Columbia Road Columbia, MD 21046 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - Explain below.
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NOTIFICATION

MAY 24 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of revisions to labeling per PR Notice 95-2.
Continued on page 2.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product			<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name David P. Miller	Title Manager of Regulatory Affairs	Telephone No. (Include Area Code) 410-381-3800
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		Date Application Received (Stamped) MAY 16 09:14 EPA/OPP/DPD1
4. Typed Name David P. Miller	3. Title Manager of Regulatory Affairs	5. Date 5-10-96

GEMSTAR[®] LC

A Liquid Concentrate Biological Insecticide For Control of
Corn earworm (Cotton bollworm) and Tobacco budworm

GEMSTAR LC is an IVP (Insecticidal Virus Product) for control of the caterpillars of the corn earworm, *Helicoverpa zea* (also known as the cotton bollworm and the tomato fruitworm), and the tobacco budworm, *Heliothis virescens*. Read this label carefully. Refer to the Technical Bulletin for Additional Guidelines for Use.

Active Ingredient: Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of *Helicoverpa zea* (corn earworm) 0.64%
Inert Ingredients: 99.36%

*This lot contains at least 2 billion OBs/ml

KEEP OUT OF THE REACH OF CHILDREN CAUTION STATEMENT OF PRACTICAL TREATMENT

In case of contact with eyes flush with plenty of water for at least 15 minutes. If on skin, wash thoroughly with soap and water. If inhaled, remove victim to fresh air. Apply respiration if indicated. Get medical attention if irritation persists.

ESTABLISHMENT No. 62750-IL-1

Mfg. By:

EPA REGISTRATION No. 58788-5

Biosys, Inc.

Lot No.

Net Volume:

Decatur, IL

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

PRECAUTIONARY STATEMENTS: Avoid inhalation or contact with skin, eyes or clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT: Applicators and other handlers must wear:

Long-sleeved shirt and long pants - 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.

USER SAFETY RECOMMENDATION

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS: Do not contaminate water when disposing of equipment washwaters.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not re-use empty containers.

STORAGE: Store this product in original sealed container in a cool, dry place inaccessible to children and pets. Store at temperatures below 90°F. Bioactivity may be impaired by storage above 90°F. Storing the product in a freezer or refrigerator will extend its shelf-life.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Pesticide, spray mixture or rinseate that cannot be used should be disposed of on site or at an approved waste disposal facility in accordance with Federal and local regulations.

CONTAINER DISPOSAL: Plastic container - triple rinse (or equivalent). Then offer for recycling or reconditioning, or purchase and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burning is allowed, stay out of smoke.

Glass container - triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved State and local procedures.

PRODUCT INFORMATION - APPLICATION

Recommended Application Rates

CROP	RATE		
	Billions OBs Per Acre	Mils Per Acre	Oz Per Acre
Vegetables: Tomatoes, lettuce, cabbage, beans, peppers, celery, escarole, sweet corn, peas, asparagus, beets, cauliflower, cucumber, broccoli, onion, strawberries,okra	600	300	10
Other Crops: Cotton, alfalfa, soybeans, peanuts, potatoes, corn, wheat, sweetpotatoes, tobacco, sunflower, sugarbeets, sorghum, various flowers, & border plants	600	300	10

USE NON-CHLORINATED WATER AT A pH NEAR 7.0 IN THE SPRAY-TANK MIX.
GEMSTAR LC may be applied up to and including the day of harvest and storage.

LIMITED WARRANTY

Crop Genetics International makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material except those which are contained on this label and/or accompanying technical bulletin.

Baculoviruses have been found only in invertebrates; no member of this family is known to infect vertebrates or plants. GEMSTAR LC does not reproduce in mammalian cells. No adverse effect to fish, wildlife or beneficial organisms has been observed. The information contained herein is based on data which are believed to be reliable, but it is understood that such information is not guaranteed by Crop Genetics International Corporation and is to be used at the risk of the user of such information.

DIRECTIONS FOR USE

It is a violation of Federal law to use 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 directly 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.
(Refer to Technical Bulletin for Additional Guidelines for Use.)

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 interval (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 only 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 - Shoes plus socks

GENERAL INFORMATION

GEMSTAR LC is a highly selective insecticide for use against the insects and on the crops listed on this label. Always follow these directions:

Treat when larvae are young (early instars) and are actively feeding. Apply before extensive damage has occurred. When insect infestations are heavy, use the higher label rates.

Thorough spray coverage is essential for good insect control. GEMSTAR LC should be applied by conventional ground or aerial application equipment with quantities of water to provide thorough coverage of infested plants without runoff. The amount of water needed per acre will depend on weather, spray equipment, and local experience. Generally, use the recommended amount of GEMSTAR LC in 20-100 gallons of water per acre for ground application and in at least 5 gallons of water for aerial application.

A spreader/sticker and ultraviolet screening agent may enhance the performance of this product.
Fill the mix tank with desired quantity of water. Agitation should be used during mixing. If a spreader/sticker or ultra-violet screen is used, add prior to the addition of GEMSTAR LC. Mixing time can be reduced by pre-mixing GEMSTAR LC with a small amount of water and vigorously agitating before adding to the tank. Final formulation should be mixed for 10-30 minutes.

SHAKE WELL BEFORE USING

Crop Genetics International - A Subsidiary of Biosys - 10150 Old Columbia Road - Columbia, MD 21046