



3125-584

11/30/2001

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	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number:  3125-584	Date of Issuance:  NOV 30 2001
		Term of Issuance: Unconditional	
		Name of Pesticide Product:  • Encore™ 190 Insecticide	
<b>NOTICE OF PESTICIDE:</b> <u>  X  </u> Registration <u>    </u> Reregistration  (under FIFRA, as amended)			
Name and Address of Registrant (include ZIP Code):  Bayer Corporation Agriculture Division 8400 Hawthorn Road P.O. Box 4913 Kansas City, MO 64120-0013 attn: James Kunstman			
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 unconditionally registered in accordance with FIFRA sec. 3(c)(5). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).  1. Revise the EPA Registration Number to read, "EPA Reg. No. 3125-584"			
Signature of Approving Official:    Dani Daniel Insecticide-Rodenticide Branch Registration Division (7505C)		Date:  NOV 30 2001	

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2. Submit two (2) copies of your final printed labeling before you release the product for shipment.

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. If you have any questions regarding this notice, please contact me at (703) 305-5409.

Enclosure :

# Encore™ 190

NOV 30 2001  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No. 3125-XXX

3/25-584

## Insecticide

For protection of cotton from certain insects (promoting enhanced plant health and yield)

Shake well before using.

### ACTIVE INGREDIENT:

Imidacloprid  
1-[(6-Chloro-3-pyridinyl)methyl]-N-  
nitro-2-imidazolidinimine .....17.4%

INERT INGREDIENTS .....82.6%  
Total 100.0%

ENCORE 190 contains 1.58 lb of active ingredient per gallon  
(190 grams/liter)

EPA Reg. No. 3125-XXX

Net Contents: XX

**STOP - Read the label before use.**

**Keep out of reach of children.**

## CAUTION

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical resistant to this product are listed below. More options can be obtained by following the instructions for Category C on an EPA chemical-resistance category selection chart.

#### -Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes.
- Chemical resistant gloves (such as nitrile, butyl, neoprene, barrier laminate, polyvinyl chloride or Viton).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### Engineering Controls Statement

When handlers use closed systems, or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### 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.
- Remove Personal Protective Equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

### FIRST AID

#### If swallowed

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

#### If on skin or clothing

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

#### If in eyes

- Hold eye open and rinse slowly and gently with water for 15 to 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.

In case of emergency call toll free the Bayer Kansas City  
Emergency Response Telephone No. 800-414-0244.

Have a product container or label with you when calling a  
poison control center or doctor, or going for treatment.

**Note To Physician:** No specific antidote is available.  
Treat the patient symptomatically.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This product is toxic to wildlife and highly toxic to aquatic invertebrates.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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**ENDANGERED SPECIES ADVISORY**

Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species.

Consult your local county bulletin, County Extension Agent, or Pesticide State Lead Agency for information concerning endangered species in your area.

**IMPORTANT: Read these entire Directions for Use and Conditions of Sale before using ENCORE 190.**

**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.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and 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. 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 12 hours following application.

**Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Chemical resistant gloves
- Shoes plus socks

**CONDITIONS OF SALE**

THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

**GENERAL USE INFORMATION**

ENCORE 190 is a flowable formulation. The active ingredient contained in ENCORE 190 is active on insects by contact and ingestion of plant material through systemic movement in the plant.

Apply ENCORE 190 through properly calibrated ground - or aerial - application equipment. Do not apply ENCORE 190 through any type of irrigation system.

Do not apply ENCORE 190 in enclosed structures such as greenhouses or plant houses.

**TANK MIX COMPATIBILITY AND MIXING INSTRUCTIONS**

To prepare the spray solution, add a portion of the required amount of water to the spray tank and with agitation add ENCORE 190. Complete filling the tank with the remainder of the water needed. Maintain sufficient agitation during both mixing and agitation.

ENCORE 190 is physically and biologically compatible with many registered pesticides, herbicides, fertilizers and/or micronutrients and may be used with these products as indicated in the Recommended Applications. Test the compatibility of the intended tank mixture before adding ENCORE 190 to the spray tank using the following procedure:

Add the recommended proportions of each chemical with the same proportion of water, as will be present in the chemical supply tank, into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be readily re-mixed, the mixture is considered physically compatible. Poor mixing or formation of precipitates that do not readily re-disperse indicates an incompatible mixture that should not be used. Jar tests for compatibility do not subject mixtures to shear forces that occur in pumps and that in unusual circumstances affect compatibility. For further information, contact your local Bayer representative.

When tank mixtures of ENCORE 190 and other pesticides, herbicides, fertilizers, micronutrients or herbicides are needed add to the spray tank in the following order:

- 1) Fill the spray tank 1/4 to 1/3 full with clean water;
- 2) While recirculating and with the agitator running, add any products in PVA bags (See Note). Allow time for thorough mixing;
- 3) Continue to fill spray tank with water until 1/2 full;
- 4) Add any other wettable powder (WP) or wettable granules (WG) products;
- 5) Add the required amount of ENCORE 190, and any other "flowable" (FL or SC) type products;
- 6) Allow enough time for thorough mixing of each product added to tank;

7) If applicable, add any remaining tank mix components: Emulsifiable concentrates (EC), soluble liquids (SL), fertilizers and micronutrients.

8) Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.

**NOTE:** Do not use PVA packets in a tank mix with products that contain boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic that is not soluble in water or solvents.

### RESISTANCE MANAGEMENT

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.

RECOMMENDED APPLICATIONS	
COTTON	
Applied specified dosage per acre by ground or air for control of :	RATE PER APPLICATION
Cotton aphid Cotton fleahopper Bandedwinged whitefly Plant bugs (excludes <i>Lygus hesperus</i> ) Green stink bug Southern green stink bug Bollworm/Budworm (ovicidal effect)	3.75 fl oz/acre
Cotton aphid Cotton fleahopper Bandedwinged whitefly Plant bugs (excludes <i>Lygus hesperus</i> ) Green stink bug Southern green stink bug Bollworm/Budworm (ovicidal effect)	2.5 fl oz/acre  The low rate can be used early season when pest pressures are low or when tank-mixing with other effective products registered for target insect control.
<b>Tank Mix Recommendations -</b> <b>For early season control of:</b> Thrips and all ENCORE pests listed above <b>For mid to late season control of:</b> Plant bugs Stink bugs (including Brown stink bug) Grasshoppers Saltmarsh caterpillar Cotton leafperforator and all ENCORE pests listed above * Refer to the Bidrin® 8 product label for specific use recommendations; observe all restrictions and precautions that appear on the label.	2.5 fl oz ENCORE + 1.6 – 3.2 fl oz Bidrin® 8*  2.5 fl oz ENCORE + 4.0 – 8.0 fl oz Bidrin® 8*
Apply specified dosage per acre by ground or air for suppression of :	RATE PER APPLICATION
Lygus bug ( <i>Lygus hesperus</i> ) Whiteflies (including sweetpotato and silverleaf whitefly)	3.75 fl oz/acre
<b>General Use Guidelines:</b>	
<ul style="list-style-type: none"> <li>- Allow 7 days between ENCORE 190 applications.</li> <li>- Pre-Harvest Interval (PHI): 14 days.</li> <li>- Maximum rate ENCORE 190 per application: 3.75 fl oz/A (0.047 lb. AI/Acre).</li> <li>- Maximum rate ENCORE 190 allowed per crop season: 18.75 fl oz/A (0.23 lb. AI/Acre).</li> <li>- Maximum number of ENCORE 190 applications per season: 5.</li> <li>- The addition of an organosilicone-based spray adjuvant is recommended for applications targeting aphids and whiteflies.</li> </ul>	
<b>Additional Notes:</b>	
<p>ENCORE 190 may be applied alone or in tank-mixes with other insecticides, herbicides, fungicides and/or fertilizer/micro-nutrients. Make multiple applications of ENCORE 190 to promote plant health and yield.</p> <p>Apply specific dosage of ENCORE 190 at earliest threshold for target pest, as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part, by the stage of pest development at application and infestation level of those pests. ENCORE 190 provides optimal performance against early instar and early nymphal stages of insects as well as bollworm/budworm eggs.</p> <p>Thorough coverage of all plant parts is required for optimum performance. Applications made with less than 5 gallons per acre may result in slower activity and/or less overall control from a single application than an application made with higher gallonages. Regardless of formulation or method of application, apply no more than 0.5 lb active ingredient of imidacloprid per acre per season, including seed treatment, soil and foliar uses. Do not apply more than a total of 6 field applications of imidacloprid per season. Do not graze treated fields after any application of ENCORE 190.</p>	

## SPRAY DRIFT ADVISORY

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

**Spray Drift Management:** The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

**Buffer Zone Requirements:** For foliar applications, do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

**Recommendations for Aerial Applications:** The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

**Droplet Size:** An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

**Wind Speed:** Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

**Temperature Inversions:** Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, the movement of smoke from a ground source can also help identify inversions. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

## ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for imidacloprid, as soon as practical following the last application. For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

IMMEDIATE PLANT-BACK	
All crops on this label plus the following crops	
Barley	Florence fennel
Canola	Fruiting vegetables
Cardoon	Leafy vegetables
Celery	Potato
Chinese celery	Sweetpotato
Corn, field & sweet	Rape seed
Celtuce	Rhubarb
Cole crops	Sorghum
Cucurbits	Sugarbeet
Edible podded beans	Swiss chard
Succulent shelled beans	Tobacco
	Wheat
30-DAY PLANT-BACK	
Cereals (including buckwheat, millet, oats, popcorn, rice, rye, and triticale)	Legumes (including soybeans and peas) Safflower
12-MONTH PLANT-BACK	
All Other Crops	
Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.	

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place, out of direct sunlight, and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response telephone number is 800-414-0244, or contact Chemtrec at 800-424-9300.

**Pesticide 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 (or equivalent). Then offer for recycling or reconditioning, or 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.

Bidrin is a registered trademark of AMVAC Chemical Corporation.

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