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2724-504

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OCT 07 1992

305 / 425,845  
18

Ms. Kelly J. Parker  
Regulatory specialist  
Zoecon Corporation  
A Sandoz Company  
12200 Denton Drive  
Dallas, Texas 75234

Dear Ms. Parker:

Subject: Final Printed Labeling for Zoecon RF-209 Cockroach  
Growth Regulator  
EPA Registration No. 2724-304

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable subject to the following comments.

1. As stated in our letter of 8/5/92, delete "After application, thoroughly wash all equipment, benches, shelving, etc. where exposed food may be handled, held, prepared, processed or served."

2. As stated in our letter of 8/5/92, you should have two storage and disposal blocks on your master label and use the appropriate block(s), i.e. residential and/or commercial, for the product used in commerce. The optional statements indicator for the storage and disposal block is inappropriate.

3. Underline the statement specified in item 1 of our 8/5/92 letter as required.

A stamped copy of the label is enclosed for your records. Submit five (5) copies of final printed labeling.

Sincerely,



Phil Hutton  
Product Manager 18  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

CONCURRENCES

SYMBOL	H7505C						
SURNAME	Mand...						
DATE	10/1/92						

( ) indicates optional statements

# ZOECON RF-209 COCKROACH GROWTH REGULATOR

with GENCOR® (ZIGRON™) Insect Growth Regulator

Controls Cockroaches by Preventing Reproduction

Continuous Protection for 120 Days (4 Months)

Roach control for Industrial & Institutional Use

Labeled for use in (food areas (and non-food areas) of food handling establishments (facilities)

**General Information:** The active ingredient in the Zoecon RF-209 Cockroach Growth Regulator is the biorational insecticide GENCOR Insect Growth Regulator. GENCOR is unique in that it eliminates cockroaches without direct poisoning like conventional insecticides. This biorational insecticide is similar to growth regulators that occur naturally in insects, and is also unique in that it controls roach populations by inhibiting reproduction. One to two weeks after application, you will begin to see roaches with crinkled wings—showing the initial effects of GENCOR. These roaches cannot reproduce. Immature roaches develop into nonreproductive adults, thereby effectively breaking the roach life cycle. GENCOR causes a gradual reduction and ultimate elimination of the roach population. A conventional insecticide effective in killing roaches should be used with the Zoecon RF-209 Cockroach Growth Regulator if a large roach population is present. The Zoecon RF-209 Cockroach Growth Regulator should then be applied every 4 months to maintain continuous protection. When GENCOR is applied by itself, a reduction in the roach population will begin to be noticed at around 4 months. Major population reductions will be seen in 6 to 12 months. Zoecon RF-209 Cockroach Growth Regulator should be applied every 4 months to maintain continuous protection.

**ACTIVE INGREDIENT:**  
Hydroprene [Ethyl(E,E)-3,7,11-trimethyl-2,4-dodecadienoate]..... 65.7%  
**INERT INGREDIENTS:**..... 34.3%

**KEEP OUT OF REACH OF CHILDREN**

## WARNING

See back panel for additional precautionary statements

## NET CONTENTS:

GENCOR and ZIGRON are trademarks of Sandoz Ltd.

Zoecon Corporation  
A Sandoz Company  
12200 Denton Drive, Dallas, TX 75234

EPA Reg. No. 2724-304  
C992-E

EPA Est.No.  
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### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS - WARNING:** Causes temporary eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through the skin. May cause dermal sensitization. Avoid direct contamination of food, foodstuffs, or water supply.

**STATEMENT OF PRACTICAL TREATMENT:** If in eyes, immediately flush with gently flowing water for at least 15 minutes - if irritation persists, get medical attention. If swallowed, call a physician. If on skin, wash thoroughly with soap and water. If skin irritation occurs, call a physician. Remove contaminated clothing and wash before reuse.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use this product in or on electrical portion of equipment due to the possibility of shock hazard.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Zoecon RF-209 Cockroach Growth Regulator is intended for use in buildings, which include but are not limited to apartment buildings, bars, cafeterias, super markets, grocery stores, day care centers, hospitals, houses, industrial buildings, office buildings, kitchens, laboratories, manufacturing establishments, mausoleums, nursing homes, restaurants, schools, stores, taverns, and warehouses. Zoecon RF-209 Cockroach Growth Regulator is also intended to be used in various modes of transportation including but not limited to aircraft, buses, trucks, trailers, rail cars, and marine vessels. Prior to using in commercial or residential (household) food areas, please refer to the Food Handling Establishment or Commercial Food Storage Area sections of the label. The preparations prior to treatment and the clean up after application described therein are also to be followed for residential (household) use.

**Instructions for use:** Zoecon RF-209 Cockroach Growth Regulator is intended to be mixed with water and applied with spray equipment such as hand pressurized or power operated sprayers capable of delivering general surface, fogger (space spray), spot and crack & crevice spray applications.

**Spray Preparation:** Prepare a diluted spray solution by (depressing the metered actuator twice) adding 7.5 milliliters (one bottle) of Zoecon RF-209 Cockroach Growth Regulator to one gallon of water. For fogger preparation, follow equipment manufacturer's instructions. For spray preparation, partially fill the mixing container with water, add the Zoecon RF-209 Cockroach Growth Regulator, shake, and fill to final volume. Use diluted spray solution within 48 hours of mixing. Shake before each use.

**Tank Mixing:** The user, at his discretion, can tank mix Zoecon RF-209 Cockroach Growth Regulator with SAFROTIN Emulsifiable Concentrate Insecticide or another adjuvant currently registered for use unless the product label prohibits such use. Use of the resulting tank mixture must be used in accordance with the more restrictive label limitations and precautions.

**General Surface Application:** Apply the Zoecon RF-209 Cockroach Growth Regulator diluted spray at a rate of one gallon per 1500 ft<sup>2</sup> of surface area. Use spray equipment capable of delivering a variable spray to uniformly apply the solution. Applications can be made to walls, floors, ceilings, attics, basements, crawlspaces, in and around cupboards, between, behind and beneath equipment, appliances, around floor drains, window and door frames, and on shelves, drawers and in similar areas. Applications may be made to floor surfaces along walls and around air ducts. NOTE: Prior to spraying around air ducts, shut off ventilation system. Allow spray to dry prior to turning on ventilation system.

**Fogger (Space Spray) Application:** Apply the Zoecon RF-209 Cockroach Growth Regulator as a fog or an ultra-low volume (ULV) mist with equipment such as ULV, mechanical misting sprayers, pump sprayers, or thermal foggers to achieve uniform coverage. Apply at a rate of 7.5 milliliters (one gallon dilution) per 12,000 ft<sup>2</sup>. Fogging applications are recommended for larger facilities including warehouses (Refer to Warehouses section below). Close room or warehouse and shut off all ventilation systems. Apply the product in a air, and direct mist toward all

areas that may harbor cockroaches. Different elements of construction, leading to voids in walls, equipment behind baseboards. After treatment (or longer as recommended by label) of other products applied in tank, ventilate before reentry.

**Spot and Crack and Crevice:** Cockroach Growth Regulator dil spray system capable of delivering Crack and Crevice applications may not be limited to: crevices, baseboard joints, molding, areas around walls can hide, and similar areas. Spot including, but not limited to: stove doors and windows, behind and stoves, and other equipment, sh

**Warehouses:** Zoecon RF-209 applied as a general surface, top in non-food storage warehouses are limited solely to either bottles not anticipated. Apply to all areas and between pallets.

**Food Handling Establishment:** Regulator may be only applied as both food and nonfood areas of areas are also considered food products. Cover or remove all surfaces (i.e. equipment, benches be handled, held, prepared, processing treatment or washed with by a potable water rinse before all equipment, benches, shelving handled, held, prepared, process

**Food Handling Establishments:** residences where exposed food These facilities (establishments) cafeterias, taverns, bars, delicatessen dining areas, hospitals, nursing machines, grocery stores and based on efficacy, is 90 - 120 d

**Commercial Food Storage Area:** spray or spot treatment to parts where food is stored. Prior to foodstuffs. Do not replace food dried. Destroy any infested food

### STORAGE & DISPOSAL

from children. Do not reuse empty trash collection.) (Do not contain disposal. Plastic Container Dis offer for recycling or recondition sanitary landfill, or incineration, by burning. If burned, stay out Triple rinse (or equivalent). Th other approved rate and local Triple rinse (or equivalent). Th puncture and dispose of in a approved by state and local aut