



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
45087-59

Date of Issuance:  
**JUN 17 1997**

Term of Issuance: Conditional

Name of Pesticide Product: Zema IGR  
Total Release Fogger

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

ZEMA CORPORATION  
P.O. Box 12803  
Research Triangle Park, NC 27709

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. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 45087-59".
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.

Signature of Approving Official:

Marion J. Johnson, Jr.

Date:

**JUN 17 1997**

REC'D  
APR 29 1997  
MID:18

# ZEMA®

Contains NYLAR®  
Registered trademark of McLaughlin Gormley King Co.

## IGR INSECT GROWTH REGULATOR TOTAL RELEASE FOGGER

- Kills Adult & Preadult Fleas
- Prevents Reinfestation for 7 Months

One Unit Treats A Room  
For Up To 6,000 Cubic Feet Of  
Unobstructed Space (27x27x8)

**ACTIVE INGREDIENTS:**

2-[1-Methyl-2-[4-(phenoxyphenoxy) ethoxy] pyridine	0.100%
Pyrethrins	0.050%
N-Octyl bicycloheptene di-L-oximide	0.400%
Permethrin [*(3-Phenoxyphenyl) methyl (+ or -) cis-trans-3-(2,2-dichloroethyl) 2,2- dimethylcyclopropanecarboxylate]	0.400%
Related compounds	0.035%
<b>INERT INGREDIENTS:</b>	<b>99.015%</b>
	<b>100.000%</b>

\* MGR-264, Insecticide Synergist  
\* Cis-trans isomers ratio: Max. 55% (+ or -) cis  
and Min. 45% (+ or -) trans

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**  
See side of can for additional precautions.

NET WEIGHT: 6 FL. OZ. (170 gm)

IGR Total Release Fogger contains a combination of three insecticides that stops the flea life cycle in three ways and controls other insects. The first insecticide is NYLAR®, an insect growth regulator that will not allow the flea to reproduce thereby providing long term control. The second insecticide is the botanical Pyrethrum, which provides effective, quick-kill of insects upon direct contact and an added benefit of flushing the insects from their hiding place to aid in a more complete control. Permethrin, the third active insecticide, provides activity until the NYLAR® takes effect.

IGR Total Release Fogger contains a combination of ingredients that kills both adult and hatching fleas. NYLAR®, the insect growth regulator in this fogger, continues to kill hatching fleas for 7 months by preventing their development into adults. The fogger reaches fleas (and other insects) hidden in carpets, rugs, drapes, upholstered pet bedding, floor cracks and open cabinets. Occasionally adult fleas may be present in treated areas when reintroduced from infested animals.

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

For use only when building has been vacated by human beings and pets. Ventilate area for 30 minutes before re-entry. For best results, treat all infested areas. Use one fogger for each 6,000 cubic feet (approx. 27'x27'x8' ceiling) of unobstructed area. Use additional units for remote rooms or where the free flow of fog is not assured. NOTE: Do not use more than one unit per average size room. Do not use this unit in a cabinet or under a counter or table. Do not use this unit in an area less than 100 cubic feet.

**PREPARATION:** Remove or cover exposed food, dishes, utensils, surfaces and food-handling equipment. Shut off fans and pilot lights. Close outside doors and windows. Remove pets and birds but leave pet's bedding as this is a primary hiding place for fleas and must be treated for best results. No need to discard pet bedding after treatment. Cover or remove fish tanks and bowls. Leave rugs, draperies and upholstered furniture in place. This product will not harm furniture when used as directed. Open inter- or closet doors and cabinets or areas to be treated. Cover waxed furniture and wood floors in the immediate area surrounding the fogger.

For more effective control of storage pests and cockroaches, open all cupboard doors and drawers for better penetration of fog. Remove all infested foodstuffs and dispose of in outdoor trash.

For flea and tick control, thoroughly vacuum all carpeting, upholstered furniture, along baseboards, under furniture and in closets. Put vacuum bag into a sack and dispose of in outside trash. Mop all hard floor surfaces.

**READ ALL DIRECTIONS AND CAUTIONS BEFORE USING**  
**TO START FOGGING; SHAKE FOGGER WELL BEFORE USING:** Hold can at arm's length with top of can pointing away from face and eyes. Push down on finger pad until it locks. This will start fogging action. Set canister in an upright position on a table, stand, etc. (up to 30' inches in height in the center of the area) and place several thicknesses of newspaper under the canister to prevent marring of the surface. Treat the whole dwelling using multiple units in homes with more than one level and numerous rooms. Leave the building at once.

**DO NOT RE-ENTER BUILDING FOR TWO HOURS:** After two hours, open all outside doors and windows, turn on air conditioner and/or fans and let treated area air for 30 minutes before reoccupying. If additional units are used for remote rooms or where free flow of fog is not assured, increase airing-out time accordingly.

**STORAGE AND DISPOSAL**  
Storage: Store in a cool dry area away from heat or open flame.  
Disposal: Replace cap and discard container in trash. Do not incinerate or puncture.

**STATEMENT OF PRACTICAL TREATMENT**

- If Swallowed: Call a physician or Poison Control Center immediately.
- If In Eyes: Flush with plenty of water. Get medical attention if irritation persists.
- If On Skin Or Clothing: Remove contaminated clothing and wash before reuse. Wash skin with soap and warm water. Get medical attention if irritation persists.

If inhaled, remove victim to fresh air if effects occur, and call a physician.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Cautious:** Harmful if swallowed. Avoid breathing vapors or spray mist or contact with skin or eyes. In case of contact, flush with plenty of water. Wash with soap and warm water after use. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

Do not use in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed. Non-food areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling). Not for use in USDA Meat and Poultry Plants. Remove pets, birds, and cover fish aquariums before spraying.

**PHYSICAL OR CHEMICAL HAZARDS**  
Contents under pressure. Keep away from heat, sparks, and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. *45087-10*  
EPA Reg. No. 265560-1  
EPA Est. No. 47000-1A-1

Manufactured by  
**ZEMA CORPORATION**  
Research Triangle Park  
North Carolina 27709  
Item No. 265560



ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JUN 17 1997

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
*45087-59*