

Gamma-Cyhalothrin

GROUP

3A

INSECTICIDE

PROZAP[®]
**Gamma-
Defense**

**CONTROLLED RELEASE
PREMISE INSECTICIDE**

- *Micro-encapsulated formula ensures slow release*
- *For control of litter beetles, flies, fleas, and ticks*
- *Dilution rate of 1-2 oz. per 3 gallons of water*

Active Ingredient:

Gamma cyhalothrin:

Cyclopropane carboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)
-2,2-dimethyl cyano (3-phenoxyphenyl) methyl ester.....5.9%

Other Ingredients:.....94.1%

Total.....100.0%

Contains 0.5 pound of active ingredient per gallon.

Contains petroleum distillates.

EPA Reg. No. 47000-192

EPA Est. No. 47000-IA-01

KEEP OUT OF REACH OF CHILDREN

CAUTION PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien
para que se la explique a usted en detalle.
(If you do not understand the label, find
someone to explain it to you in detail.)

See additional precautionary statements
and Directions for Use in booklet.



L8310-1223



**LITTER
BEETLES**



FLIES



FLEAS



TICKS

Net Contents:

8 fl. oz. (236.588 mL)

(Directions for Use, continued)

Note: One gallon finished dilution typically treats 500 - 1,000 sq. ft. For cockroaches, the recommended rate for maintenance treatments is 0.0075% and for clean-out treatments is 0.015%. For control of severe infestations, use 0.03% rate.

 *For outdoor use only and use 0.015% rate.

 ‡Use the 0.015% (0.33 fl oz (10 mL) / gal water) rate for light beetle infestation.

 †For residual control, use 0.03% rate.

 ‡In all states except California, rates for flies may be increased to 0.03% when environmental conditions are severe and/or populations are high.

 †For clean out/severe infestations, use 0.03% rate.*

Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL).

Livestock/Poultry Housing Structures and Pet Kennels

Prozap Gamma-Defense may be used as a general surface and/or crack and crevice treatment. Treat interior and exterior perimeter applications in and around livestock and poultry housing. Treat interior and exterior perimeter application in and around livestock and poultry and pet housing structures for optimum control. Suitable cleaning practices of the structure must also be followed along with applications of Prozap Gamma-Defense to effectively control the listed insects.

LITTER BEETLES: To control LITTER BEETLES: To control adult litter (darkling, hide and carrion beetles) beetles in animal housing, including poultry housing, apply Prozap Gamma-Defense insecticide to walls and floors at each grow-out or sanitation procedure, before reintroduction of poultry or other animals. Re-apply after each grow-out or sanitation procedure to control beetles that escaped earlier treatment and delay the onset of further infestations. Beetles frequently occur in areas: on walls, supports, cages, stalls, and around feeders, so pay careful attention to these places. For poultry houses where birds are grown on litter, treat the floor area. For poultry houses where birds are grown in cages, treat the walls, posts, cage framing, and into cracks and crevices around insulation. Also apply as a perimeter treatment around the outside of the building foundations to prevent beetles from entering from outside. To prevent populations from reaching a problem level, a year-round maintenance program is highly recommended.

RESTRICTIONS:

- DO NOT make applications of Prozap Gamma-Defense in areas where animals, except for cattle and calves are present in the facility. Allow treated surfaces to dry completely before restocking the facility.
- DO NOT make applications to any animal feedstuffs water or watering equipment.
- DO NOT contaminate any animal food feed or water in and around livestock, poultry or pet housing when making applications.

Outdoor Surfaces And Perimeters

To control flies, fleas, mosquitoes, ants, bees, wasps, cockroaches, crickets, pillbugs, scorpions, sowbugs, spiders, ticks and other listed pests, apply **Prozap Gamma-Defense** with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to external surfaces of buildings, garages, refuse dumps and other areas where insects rest or congregate. Apply as a spot/crack-and-crevice only treatment for porches, screens, door and window frames, eaves, and patios. Prozap Gamma-Defense may also be applied to lawns around non-residential buildings or to refuse dumps or other non-residential areas where these insect pests congregate. Do not use on edible crops.

For perimeter treatments, apply a continual band of insecticide around building foundations and around service line entrances, vents, and other areas to reduce the potential for entry by crawling pests. Apply as a spot/crack-and-crevice only treatment to around windows, doors, and eaves. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, dead mulch or other potential pest harborage next to the foundation. Apply the band up to 7 ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 2 ft. Apply as a spot/crack-and-crevice only treatment around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active. Amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

Rate Table for Perimeter Barrier Applications

Application Rate: Fl oz (mL) of Prozap Gamma-Defense	Gals of Water†	Area of Coverage (sq. ft.)
0.16 fl. oz. (5mL)	1-5 gals.	800-1600 sq. ft.
0.33 fl. oz. (10 mL)	1-5 gals.	800-1600 sq. ft.
0.65 fl. oz. (20mL)	1-5 gals.	800-1600 sq. ft.
*Application volume may be greater than 5 gals./800-1600 sq. ft. if required under heavy vegetative or landscaping materials in order to obtain desired coverage.		

Examples of Dilutions For Perimeter Barrier Applications

Application Volume Gals. of Solution per 1,000 sq. ft.	Application Rate Fl. oz. (mL) of Prozap Gamma-Defense per 1,000 sq. ft.	Fl oz. (mL) of Prozap Gamma-Defense to Dilute in Water According to Spray Tank Volumes		
		5 gals	10 gals	50 gals
1 gal per 1,000 sq. ft.	0.16 fl. oz. (5mL) 0.33 fl. oz. (10mL) 0.65 fl. oz. (20mL)	0.80 fl. oz. (25 mL) 1.65 fl. oz. (50 mL) 3.3 fl. oz. (100 mL)	1.6 fl. oz. (50 mL) 3.3 fl. oz. (100 mL) 6.5 fl. oz. (200 mL)	8 fl. oz. (250 mL) 16 fl. oz. (500 mL) 33 fl. oz. (1000 mL)
2 gal per 1,000 sq. ft.	0.16 fl. oz. (5mL) 0.33 fl. oz. (10mL) 0.65 fl. oz. (20mL)	0.40 fl. oz. (12.5 mL) 0.80 fl. oz. (25 mL) 1.65 fl. oz. (50 mL)	0.80 fl. oz. (25 mL) 1.65 fl. oz. (50 mL) 3.3 fl. oz. (100 mL)	4 fl. oz. (125 mL) 8 fl. oz. (250 mL) 16 fl. oz. (500 mL)
5 gal per 1,000 sq. ft.	0.16 fl. oz. (5mL) 0.33 fl. oz. (10mL) 0.65 fl. oz. (20mL)	0.16 fl. oz. (5 mL) 0.33 fl. oz. (10mL) 0.65 fl. oz. (20 mL)	0.33 fl. oz. (10 mL) 0.65 fl. oz. (20 mL) 1.65 fl. oz. (50 mL)	1.6 fl. oz. (50 mL) 3.3 fl. oz. (100 mL) 6.5 fl. oz. (200 mL)

Example calculation: to apply the mid-rate of **Prozap Gamma-Defense** at a volume of 5 gal /1,000 sq. ft. mix 3.3 oz of concentrate in 50 gallons of water. The percent active ingredient in the finished **Prozap Gamma-Defense** dilution can be calculated with the following formula:

mL needed to add times 59% active in concentrate, divided by gal finished dilution times 3785 mL/gal ð= % active in dilution (Example: 3.3 oz in 50 gal. is 100 mL, times 59 equals 590, and 50 gal, times 3785 is 189,250. Dividing 590 by 189,250 equals 0.003% active in the tank dilution.)

NOTE: Do not use water based sprays of **Prozap Gamma-Defense** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using **Prozap Gamma-Defense**. **Prozap Gamma-Defense** has not stained or caused damage to painted or varnished surfaces, plastic fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry, to determine whether staining will occur.

LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES

RESTRICTIONS:

- DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.
- DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

Resistance Management Recommendations

For resistance management, Prozap Gamma-Defense contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to Prozap Gamma-Defense and other Group 3A insecticides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of Prozap Gamma-Defense or other Group 3A insecticides with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target species when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues for the targeted pests between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Cooperative Agricultural Extension Agent or your local Neogen representative at 1-800-477-8201.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. Do not store near heat or open flame. **Do not allow product to freeze.**

In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative of the nearest EPA Regional Office for guidance. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available 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. **Triple rinse** or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

WARRANTY DISCLAIMER

Neogen Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent consistent with applicable law, Neogen Corporation MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

For non-emergency (eg., current product information), Call: 1-800-621-8829

Manufactured for:

Chem-Tech, Ltd.TM
 1006 Business Highway 5
 Pleasantville, IA 50225 U.S.A.

Chem-Tech, Ltd.TM is a wholly-owned subsidiary of Neogen® Corporation L8310-1223

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Item No. 1928510



FIRST AID

- If in Eyes:**
 - Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 - Call a poison control center or doctor for further treatment advice.
- If Swallowed:**
 - Call a poison control center or doctor immediately for treatment advice or transport the patient to the nearest hospital.
 - Do not give any liquid to the patient.
 - Do not administer anything by mouth to an unconscious person.
 - Do not induce vomiting unless told to do so by the poison control center or doctor.

NOTE TO PHYSICIAN: Induced vomiting for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should only be induced under professional supervision.

Have product container or label with you when calling a poison control center, doctor, or going for treatment. For 24-hour emergency information on this product, call 1-800-498-5743 (US & Canada) or 1-651-523-0318

Prozap® Gamma Defense™

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Gamma cyhalothrin:

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-2,2-dimethyl cyano (3-phenoxyphenyl) methyl ester.....5.9%

Other Ingredients:.....94.1%

Total.....100.0%

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Contains petroleum distillates.

EPA Reg. No. 47000-192

EPA Est. No. 47000-IA-01

PEEL BACK HERE

KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCION

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before re-use. Wear safety glasses or goggles, long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves made of barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or Viton ≥ 14 mils. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Skin exposure may also result in a sensation described as a tingling, itching, burning or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas thoroughly with soap and water. Relief from skin sensation may be obtained by applying an oil-based cream.

See First Aid statement on front cover of leaflet.

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1006 Business Highway 5

Pleasantville, IA 50225 U.S.A. L8310-1223

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