



# Gentrol®

## Technical Bulletin

### Target Pests: Cockroaches, Stored Product Pests, Drain Flies, Fruit Flies and Bed Bugs.

1. **Gentrol®** contains the **Zoëcon® exclusive** Insect Growth Regulator (IGR) (S)-Hydroprene. (S)-Hydroprene is a synthetic copy of naturally occurring insect biochemicals. IGRs prevent insects from completing their normal development into the adult stage. In insects with *GRADUAL METAMORPHOSIS* such as cockroaches and bed bugs, the impact is on the last nymphal instar, causing adults to have twisted wings (cockroaches), darkened cuticles, and non-functional reproductive organs. In insects with *COMPLETE METAMORPHOSIS* such as stored product pests, moths, or drain and fruit flies, the impact occurs in the pupal stage causing death.
2. **Gentrol®** ((S)-Hydroprene) has an excellent toxicity profile, is low odor and non-repellent. It is ideal for sensitive accounts such as schools, hospitals, nursing homes, day care centers, residential homes and food handling areas.
3. **Gentrol®** ((S)-Hydroprene) has the unique ability to translocate. It is heavier than air and will move down on air currents to penetrate deep into pest harborage areas.
4. **Gentrol®** ((S)-Hydroprene) has an affinity for organic matter that is found on the inside of drain pipes. Drain and fruit fly maggots develop, live, and feed on food debris and other organic matter found in drain pipes. Since Gentrol® can be absorbed or ingested, it has excellent control on drain and fruit flies.
5. **Gentrol®** ((S)-Hydroprene) decreases the water content in the bodies of German cockroach nymphs, which encourages them to seek water that is abundant in most gel baits.
6. **Gentrol®** ((S)-Hydroprene) causes pregnant female cockroaches to seek food. Cockroach females carry an ootheca which contains 30–40 eggs. During pregnancy, a female will usually hide in undisturbed dark harborages and refrain from feeding until the eggs are ready to hatch. She will then drop the egg case in the harborage and proceed to search for food. This search for food increases the chance that the female will come in contact with a bait application. Females feeding on a bait will die and her future nymphs will die with her. This enhancement of baiting will speed up the control process, resulting in an improved baiting program.
7. **Gentrol®** ((S)-Hydroprene) causes a decrease in the tolerance level that some insects have developed to certain classes of insecticides. It enhances rotational programs, and extends the useful market life of most structural pest insecticides.
8. **Gentrol®** ((S)-Hydroprene) comes in three formulations to fit the needs of a modern Integrated Pest Management Program; Gentrol® IGR Concentrate, Gentrol Point Source®, Gentrol® Aerosol, and Gentrol® Complete Aerosol, a combination IGR and insecticide formulation.
9. **Gentrol®** IGR Concentrate can be mixed in water and is compatible when tank mixed with residual insecticides.
10. **Gentrol Point Source® Roach Control Device** can be placed inside a variety of locations such as pantries, electrical boxes, and vending machines. Gentrol® ((S)-Hydroprene) will control and prevent the establishment of stored product pests such as Indian meal moths, flour beetles, grain beetles and weevils that arrive at a facility in packaged food products. One Gentrol Point Source® Roach Control Device will treat up to 75 square feet. Gentrol Point Source® Roach Control Device is not labeled for bed bugs.
11. **Gentrol® Complete Aerosol** breaks the life cycles of German cockroaches, drain flies, fruit flies and other listed pests while providing a quick knockdown and residual control by combining the insecticide Lambda-cyhalothrin with (S)-Hydroprene.

For information, visit our Web site: [www.zoëcon.com](http://www.zoëcon.com) or call 1-800-248-7763.

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