

Z-7-Tetradecen-2-one (PC Code 127600) Fact Sheet

Summary

Z-7-Tetradecen-2-one (Oriental beetle pheromone) is a new active ingredient. This active ingredient is a pheromone used to attract adult male and female Oriental beetles. The end-use product contains 0.034% active of the active ingredient. The end use product is contained in a cartridge attached to a plastic trap. When the trap is placed on the support mechanism, Oriental and Japanese beetles are attracted to the trap, and once the trap is full, the trap is put in household trash for collection. No risks to humans or the environment are expected when the pheromone trap is used according to the label directions.

I. Description of the Active Ingredient

Z-7-tetradecen-2-one (Oriental beetle pheromone) is a new active ingredient which is intended for use to control Oriental and Japanese beetles. It is an arthropod pheromone consisting of an unbranched aliphatic carbon chain with one double bond which ends in a ketone functional group. Z-7-tetradecen-2-one is a volatile chemical produced by a species of beetles to communicate with other beetles of the same species in order to alter their behavior

II. Use Sites, Target Pests, and Application Methods

Bull Run Japanese & Oriental Beetle Trap is intended for outdoor use to attract and trap Japanese and Oriental beetles. The end-use product is a pheromone trap that will be placed on a support mechanism around a perimeter where the beetles are found.

III. Assessing Risks to Human Health

Data waivers were granted for all Tier I toxicity data requirements for Oriental beetle pheromone. No subchronic studies were required. The Agency considered human exposure to Oriental beetle pheromon in light of the relevant safety factors in FQPA and FIFRA. A determination has been made that there are no unreasonable adverse effects to the U.S. population in general, and to infants and children. No exposure via drinking water is expected when the Oriental beetle pheromone trap is used according to the product label directions.

IV. Assessing Risks to the Environment

Data waivers were granted by BPPD for all nontarget data requirements. Due to the use pattern, there should be no toxicity or adverse effects to nontarget organisms. An adequate efficacy study was submitted which showed no exposure to honey bees. Data waivers were granted for all ecological effects data requirements.

V. Producer Information

Bull Run Scientific, VBT
3808 N. Sullivan Road, Building 16, Suite H
Spokane, Washington 99216

VI. Additional Contact Information

[Ombudsman, Biopesticides and Pollution Prevention Division](#) (7511P)
Office of Pesticide Programs
Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460