

(E)-9-dodecenyl acetate (119004) Fact Sheet

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Summary

9-Dodecenyl acetate is a pheromone containing the (E) and (Z) isomers. It is for use in manufacturing pheromone based products to control moths. The (Z) isomer has been already registered. The new active ingredient is the (E)-9-dodecenyl acetate pheromone. The pheromone is to be used in traps, dispensers, and sprays to help control destructive moths in forests and agricultural applications. Available information indicates that use of this pheromone is not expected to harm humans, pets, or wildlife.

I. Description of the Active Ingredient

9-Dodecenyl acetate pheromone is a chemical attractant intended for use in preventing damage caused by moths (borers), by interfering with mating communications of adult moths. Disruption of the mating process results in a decrease in egg laying and reduction of subsequent larval infestations. Many animals and plants produce pheromones, which are usually volatile chemicals with strong odors. Organisms produce pheromones in order to modify the behavior of other members of the same species, for example, to attract mates or to discourage animals from crossing territorial boundaries. In general, each species produces its own specific pheromones.

II. Use Sites, Target Pests, and Application Methods

- **Use Sites:** The active ingredient is to be formulated into end-use pheromone based products (such as traps, dispensers and sprays) for use in forests and agricultural applications.

- **Target pests:** Lepidopterous insects (moths), such as the Eastern Pine Shoot Borer)

- **Application Methods:** The pheromone can be used as a spray, in traps and in dispensers.

III. Assessing Risks to Human Health

Exposure to the pheromone is not expected to pose any health risks to adults, children or other sensitive populations. No adverse effects have ever been reported for pheromone products. The pheromones registered to date are of minimal toxicity to humans and the environment.

IV. Assessing Risks to the Environment

Available information suggests that dodecenyl acetate pheromone is not harmful to non-target organisms or to the environment. The requirements for data were waived due to low acute toxicity in mammalian species, lack of exposure, lack of persistence in the environment and a history of safe use of lepidopteran pheromones.

V. Regulatory Information

(E)-9-Dodecenyl acetate pheromone was registered (licensed for use) in May 1999. As of May 1999, EPA had approved three pesticide products with this pheromone as the active ingredient.

VI. Producer Information

Bedoukian Research, Inc . (Chemical Manufacturer)
Danbury, CT 06810-4192
3M Canada (Pesticide Producer)
3M Center, St. Paul MN 55144

VII. 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