

US EPA ARCHIVE DOCUMENT

EFFICACY STUDY REVIEW

by Kevin J. Sweeney, Entomologist - IB

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To: William Sproat

Date: June 16, 2003

EPA Reg. No. or File Symbol: 1021-1667

Product Name: Evercide House and Garden Spray 2664

Registrant: MGK

PM: George LaRocca, PM 13

Submission No. S627426 DP # : D287637

Chemical: 0.2% permethrin; tetramethrin 0.2% Type: (I) Insecticide

OPPTS Guidelines: 810.35 and 810.34

GLP ? : No.

Sites: outdoor residential

Pests: many residential pests but this amendment is for adult mosquitoes

Formulation: RTU

Studies Submitted:

MRID 45831901 Field Efficacy of an Outdoor Fogger (Ortho Mosquito-B-Gon) against the Southern House Mosquito (*Culex quinquefasciatus*).

The registrant submitted the above non-GLP study to test the efficacy of the product against flying and resting mosquitoes outdoors.

The experimental design consisted of spraying (with a sweeping motion) caged mosquitoes from a distance of two feet for three seconds with the subject product. In the actual experiment, this translated to spraying with three one second passes in a sweeping motion so that the spray contacted the test cages at each height three times during this three second activation. Treatments cages were suspended at 1 foot and five feet above the ground. The fogger was

sprayed from a level of five feet above the ground for one set of cages and from one foot above the ground for the other set of cages. Untreated cages were set up in same arrangement away from spray drift. Knockdown was recorded at 5, 10, 15, 30, and 60 minutes. Mortality counts were made at 24 hours.

In all tests, the subject product was 100% effective. There was 100% knockdown of the treated mosquitoes after five minutes and 100% mortality at 24 hours post-treatment.

Entomologist Recommendations/Comments:

1. The label states: "Hold fogger 18-24 inches from shrubs, bushes, grassy areas and other areas infested with these pests." The product was sprayed in the submitted study according to the labeled directions for use. The study is acceptable and supports the label claim "Kills mosquitoes that may transmit West Nile virus". Use of the term "controls" is not acceptable because the fogger can not achieve control of a mosquito population, it simply kills flying and most likely, resting mosquitoes.

2. The disclaimer stating that the product is not 100% effective in controlling WNV mosquito vectors is acceptable.