[00011] The compositions of the prior art have failed to produce an environmentally safe adulticide that is effective on pyrethroid resistant and pyrethroid susceptible arthropods.

SUMMARY OF THE INVENTION

[00012] In one aspect, the invention is directed to a pesticidal mixture comprising an effective amount of octanoic, nonanoic and decanoic (C8, 9, 10) fatty acids and an effective amount of a pyrethroid.

[00013] In another aspect, the invention is directed to a method of insect control comprising administering to an environment in need of insect control an effective amount of a mixture of the present invention. Another aspect relates to a method of insect control comprising applying an effective amount of the mixture disclosed herein to a fabric.

BRIEF DESCRIPTION OF THE DRAWINGS

[00014] FIG. 1, *Time/Mortality Response of Susceptible and Resistant* Aedes aegypti *to Permethrin in Bottle Bioassay*, is a graph of the results from Bottle Bioassay Example #1. This bioassay confirmed that the *Aedes aegypti* strain was resistant to pyrethroids.

[00015] FIG. 2, *Time/Mortality Response of Susceptible and Resistant* Aedes aegypti *to C8910 in Bottle Bioassay,* is a graph of the results from Bottle Bioassay Example #2. This bioassay demonstrated that pyrethroid resistant and pyrethroid susceptible *Aedes aegypti* had equivalent response to a C8, 9, 10 mixture of fatty acids.

[00016] FIG. 3, *Time/Mortality Response of Susceptible and Resistant* Aedes aegypti *to a 1:0.01 ratio of C8910 with Permethrin in Bottle Bioassay*, is a graph of the results from Bottle Bioassay Example #3. This bioassay demonstrated that pyrethroid resistant *Aedes aegypti* had a more rapid response than did pyrethroid susceptible *Aedes aegypti* to a mixture of C8, 9, 10 fatty acids with a pyrethroid, such as permethrin.

DETAILED DESCRIPTION OF THE INVENTION

[00017] Applicants discovered that a mixture of octanoic, nonanoic and decanoic acids (C8, 9, 10) with a pyrethroid produces insecticidal compounds that are highly