

EFFICACY STUDY REVIEW

by Kevin J. Sweeney, Entomologist - IB

To: Joseph Tavano

Date: June 9, 2004

EPA Reg. No.: 121-IT

121-87

Product Name: 121-34 Cutter Original Insect Repellent Pump Spray Formula MMI also known as Cutter Backwoods Insect Repellent.
121-IT Cutter Insect Repellent 23T (A treated towelette)

Registrant: Spectrum - Division of United Industries Corporation

PM: Richard Gebken, Acting PM 10

Dec #: 330143

DP : 287110

Chemical: DEET, insecticide (I) - repellent

121-34 23% DEET

121-IT 23% DEET

Studies Submitted:

MRID 46009203 Evaluation of Mosquito Repellents KSC-22-137A, KSC-22-137 and KSC-22-149 Compared to Backwoods Cutter Insect Repellent Towards the Southern House Mosquito by Bio Research, Inc.

This was a laboratory study with the subject product and a positive control (121-34) against the West Nile virus vector, *Culex quinquefasciatus*. Human forearms were exposed to the blood seeking mosquitoes in cage tests. Subjects were treated with approximately 1gm of product/600 sq. cm of skin surface area. According to this study, the subject product provided nearly 8 hours of repellency. The registered repellent, EPA Reg. No 121-34, provided 7.25 hours of repellency.

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Study Cited:

MRID 44517601 Evaluation of the Efficacy of Topical Repellents Against Mosquitoes in the Field by ICR.

This study tested 121-68 and a product with an equal concentration of DEET to product 121-34 and 121-68 (23% DEET). I previously reviewed this study in support in 8-hour repellency claims for 121-68 on April 21, 1998. I accepted the study for 8-hour repellency claims against mosquitoes only.

1. Regarding the claim, “Repels mosquitoes that may carry/transmit West Nile virus”, the submitted study shows the performance of the subject product against *Culex* spp. mosquitoes that transmit WNV to humans.
2. Taken together, the submitted and cited studies support a claim of 8-hours of repellency against mosquitoes ONLY for the subject product. Remove the claim, “Repels biting insects for up to eight hours”.