

Product Performance Data Evaluation Review

by

Kevin J. Sweeney, Entomologist, IB

Date: 5/21/04

Reviewer: Joseph Lavano

Product: MGK DEET

EPA Reg. No. 1021-891

PM: Richard Gebler, Acting PM 10

Dec# 31966

DP 295796

Chemical: DEET

Formulation: RTU 7.0% DEET spray

Sites: human skin

Pests: mosquitoes

Request: MGK submitted mosquito repellency data to support efficacy claims for a Chase Product 498-199, SprayPak Insect Repellent, Formula 5.

MRID 459016011 MGK DEET 1021-891 Product Efficacy Reports.

Entomologist's Comments and Recommendations:

1. The formulation tested in the submitted efficacy study is 7.0% MGK DEET. The Chase Product is also 7.0% DEET but has a number of inert ingredients added that could affect the longevity of repellency. Therefore, the formulation as described in the submitted study and that of the Chase product is not similar. Therefore, this study cannot be used to support the Chase product. Repellent efficacy data is to be product specific data and data must be derived from testing with the Chase product.

2. The submitted data show that the tested 7.0% formulation of DEET is repellent to Yellow Fever mosquitoes for up to seven hours. The Chase product has a three hour claim and it cannot be extended up to seven hours based on these submitted data.

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MRID 4590501 MGK DEET 1021-891 Product Efficacy Reports.

Entomologist's Comments and Recommendations:

1. The formulation tested in the submitted efficacy study is 7.0% MGK DEET. The Chase Product is a 7.0% DEET but has a number of inert ingredients added that could affect the longevity of repellency. Therefore, the formulation as described in the submitted study and that of the Chase product is not similar. Therefore, this study cannot be used to support the Chase product. Repellent efficacy data is to be product specific data and data must be derived from testing with the Chase product.

2. The submitted data show that the tested 7.0% formulation of DEET is repellent to Yellow Fever mosquitoes for up to seven hours. The Chase product has a three hour claim and it cannot be extended to seven hours based on these submitted data.

3. More mosquito data are required. Only one species was tested. Representative of the genera *Culex* and *Anopheles* should be evaluated as well.