

## Evaluation Report for Category B, Subcategory B.2.1 Application

**Application Number:** 2006-4879  
**Application:** B.2.1 (New/Changes Product Chemistry-Guarantee)  
**Product:** NoSquito by Stinger Mosquito Octenol Lure  
**Registration Number:** 29062  
**Active ingredients (a.i.):** Octenol (OCE)  
**PMRA Document Number:** 1614904

### Purpose of Application

The purpose of this application was to register NoSquito by Stinger Mosquito Octenol Lure (0.735 g octenol/lure). This lure is to be used with the Stinger Outdoor Insect Killer Devices (models UV15, UV40 and UVB45). Applications for these devices were withdrawn because they are exempt from registration according to Schedule II of the Pest Control Products Regulations.

### Chemistry Assessment

With the exception of a one year storage stability data, the part 3 (Product Chemistry) requirements have been satisfactorily addressed.

### Health Assessments

No acute toxicity studies were submitted for NoSquito by Stinger Mosquito Octenol Lure. Instead, the applicant submitted a request to waive acute toxicity testing based on the small quantity of active ingredient in the lure and the known toxicological properties of the technical grade of the active ingredient, Bedoukian Octenol Technical (99.8% 1-octen-3-ol). The acute oral toxicity of Bedoukian Octenol Technical was high, having an LD<sub>50</sub> of 175 mg/kg bw in female rats. In New Zealand white rabbits, Bedoukian Octenol Technical was moderately irritating to the eye based on the severity and persistence of ocular reactions, and was mildly irritating to the skin. Furthermore, no skin sensitization reactions to Bedoukian Octenol Technical were observed in adult albino guinea pigs. The request to waive acute toxicity testing was accepted.

Given the very limited toxicity data available for octenol, a qualitative risk characterization approach was taken to evaluate the occupational and bystander exposure of octenol in NoSquito by Stinger Mosquito Octenol Lure when used in various Stinger mosquito traps.

Limited handler exposure by the dermal and inhalation routes is expected when handlers insert the octenol lure into the mosquito trapping device. The active ingredient is contained within a sealed plastic cassette containing perforations to allow the slow release of octenol vapours. Exposure and risk to the handler is expected to be negligible

when inserting the lure into the trapping device and changing spent lure cassettes because the packaging limits access to the active ingredient.

Exposure and risk to bystanders is also expected to be negligible because the number of units set up in a given area will be limited; the handlers are directed to set up the units in areas away from where people congregate. Moreover, the octenol is released slowly over a period of time and is quickly diluted by ambient air.

### **Environmental Assessment**

These products are very similar to registered octenol lures and associated devices. The application rate of octenol using the NoSquito by Stinger Mosquito Octenol Lure was determined to be similar to that of the registered products. The EAD required no additional data for this lure.

As octenol is applied at very low rates over land through fixed-point release devices, minimal exposure of aquatic and terrestrial organisms to the active ingredient is expected. Therefore, risks to aquatic and terrestrial organisms are expected to be negligible.

### **Value Assessment**

The NoSquito by Stinger Mosquito Octenol Lure has a similar function as other registered octenol lures [Mosquito Magnet (Reg. No. 28440), Flowtron Mosquito Attractant (Reg. No. 28456), Biosensory Mosquito Lure (Reg. No. 28446), SkeeterVac Fine tune Mosquito Lure (Reg. No. 28451), and Mega-Catch Octenol Fragrance Strip (Reg. No. 28448)], which are used to attract mosquitoes to a device where they will be trapped and killed. The currently registered octenol lures all have guarantees of 1.66 or 3.74 g octenol/lure and replacement intervals of 30-60 days (or 450 h of use for the Flowtron Mosquito Attractant). The NoSquito by Stinger Mosquito Octenol Lure has a guarantee of 0.735 g octenol/lure. If a lure with 1.66 g of octenol should be replaced after 30 days, then by extrapolation a lure of 0.735 g of octenol should be changed after 14 days or two weeks.

### **Conclusion**

The PMRA can support the registration of NoSquito by Stinger Mosquito Octenol Lure with the provision that a one year storage stability study be submitted when the study is complete.

### **References**

PRDD2006-03. Octenol (1-Octen-3-ol). Pest management regulatory agency, 2006.

RDD2007-01. Octenol (1-Octen-3-ol). Pest management regulatory agency, 2007.

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services  
Canada 2009

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.

