

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2017-5546
Application: B.3.11
Product: Mosquito Barrier
Registration Number: 31022
Active ingredients (a.i.): Garlic Juice
PMRA Document Number : 2851661

Background

Mosquito Barrier (Reg. No. 31022) is an area repellent with a guarantee of 99.3% garlic juice which is registered to repel mosquitos from sprayed areas. This product is applied at a concentration of 30 to 60 mL product per liter. The product may be mixed with up to 20 m of vegetable oil (canola or corn) and 10 mL of liquid soap per litre of water to act as a sticker to aid retention of the product on plants. Mosquito Barrier is sprayed to run-off on all foliage (plants, shrubs, and turf) in areas from which pests are to be repelled. The product may be re-applied after heavy rain or if pests continue to be a problem.

Purpose of Application

The purpose of this application is to add a claim of repels ticks to the product label.

Chemistry Assessment

Not required.

Health Assessments

Not required.

Environmental Assessment

Not required.

Value Assessment

One efficacy trial was reviewed in support of the claim that Mosquito Barrier will repel ticks from treated areas. This trial was a field trial conducted with Mosquito Barrier in residential properties in western Connecticut over three years (2009, 2010, and 2011). Results of this study found a reduction in the number of captured nymphal ticks in the Mosquito Barrier plots compared to the untreated control of 37%, 59%, and 47.4% at 6, 11, and 18 days post-spray, respectively. These results demonstrated that Mosquito Barrier provided short-term, moderate suppression of tick activity. Therefore, a claim that Mosquito Barrier repels ticks was supported.

Conclusion

The submitted information supported a claim that Mosquito Barrier repels ticks from treated areas.

References

Additional Information

- 2849589** Bharadwaj et al, 2015. Effectiveness of Garlic for the Control of *Ixodes scapularis* (Acari: Ixodidae) on Residential Properties in Western Connecticut. J. Med Entomol. 52(4) 722-725 (2015)

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