

## Evaluation Report for Category B, Subcategory 3.11 Application

**Application Number:** 2019-0262  
**Application:** New or Changes to Product Labels-New Pests  
**Product:** No Fly Zone  
**Registration Number:** 32757  
**Active ingredients (a.i.):** Permethrin  
**PMRA Document Number:** 3032927

### Purpose of Application

No Fly Zone has been registered since 2017 as mosquito repellent apparel. The purpose of this application was to add a claim that the product repels ticks to the product label.

### Chemistry, Health and Environmental Assessments

Chemistry, health and environmental assessments were not required for this application.

### Value Assessment

Value information provided in support of this amendment consisted of product-specific data on active ingredient retention for up to 110 launderings, trials demonstrating knock-down and drop-off of ticks from No Fly Zone fabric after at least 70 launderings, and four large-scale operational field trials demonstrating the performance of permethrin-treated clothing in repelling ticks. Tick species tested in the various trials included *Ixodes ricinus*, *Amblyomma americanum*, *Dermacentor variabilis* and *I. scapularis*. The submitted information demonstrated that permethrin-treated clothing reduces tick bites by up to 99% when compared to untreated clothing and was sufficient to support a claim that No Fly Zone garments will repel ticks for up to 70 launderings.

### Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, No Fly Zone, and has found the information sufficient to add a new claim that the product repels ticks to the product label.

## References

- 2953799 2019, Public Health Agency of Canada Comment on Value/Efficacy of No Fly Zone, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1
- 2953800 2014, Reference Document : Pilot study assessing the effectiveness of factory-treated, long-lasting permethrin-impregnated clothing for the prevention of tick bites during occupational tick exposure in highly infested military training areas, Germany, DACO: 10.1,10.2.1,10.2.2,10.2.3.1
- 2953801 2014, Reference Document: Effectiveness of permethrin-treated clothing to prevent tick exposure in foresters in the central Appalachian region of the USA, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1
- 2953802 2011, Reference Document: Pilot Study Assessing the Effectiveness of Long-Lasting Permethrin-Impregnated Clothing for the Prevention of Ticks Bites, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1
- 2953803 2019, Reference Document: Long-lasting Permethrin Impregnated Uniforms: A Randomized-Controlled Trial for Tick Bite Prevention, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1
- 2998296 2019, Value rationale to support label expansion (for ticks) of No Fly Zone (PCP no. 32757) clothing, DACO: 10.2, 10.2.3.2

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