



Evaluation Report for Category B, Subcategories 2.1, 2.3, 2.4 Application

Application Number: 2020-2419
Application: New EP Product Chemistry-Guarantee, Identity of Formulants, Proportion of Formulants
Product: Thermacell Zone Mosquito Repellent VI-C
Registration Number: 34262
Active ingredient (a.i.): metofluthrin
PMRA Document Number: 3272533

Purpose of application

The purpose of this application was to register a new area insect repellent for use in a vapourizer device to repel mosquitoes, Thermacell Zone Mosquito Repellent VI-C, based on registered precedents.

Chemistry assessment

Thermacell Zone Mosquito Repellent VI-C is formulated as a solution containing metofluthrin at a concentration of 5.5 %. This end-use product has a density of 0.7938 – 0.7946 g/mL and pH of 5.5. The chemistry requirements for this product have been fulfilled.

Health assessments

Thermacell Zone Mosquito Repellent VI-C is considered to be of low acute toxicity via the oral, dermal or inhalation routes of exposure. It is considered to be non-irritating to the eyes and slightly irritating to the skin, and is not considered to be a potential dermal sensitizer.

The application and postapplication exposures and risks from the use of Thermacell Zone Mosquito Repellent VI-C, as an insect repellent, were qualitatively assessed. No health risks of concern are expected for homeowners handling the product, and adults, youth, and children, provided all precautionary statements and label directions are followed.

A dietary exposure evaluation was not required for this application.

Environmental assessment

The use of Thermacell Zone Mosquito Repellent VI-C is not expected to increase environmental risk relative to products registered for similar uses. Environmental concerns have been mitigated through adequate statements on the product label.

Value assessment

Support for label claims was based on the similarity of the product formulation to similar products. The comparison supported claims of repels mosquitos, 26m² repellency zone, and repels mosquitos within 15 minutes of use. The registration of TheraCell Zone Mosquito Repellent VI-C provides a new product for domestic use to repel mosquitos from outdoor areas with a comparable or larger repellency zone compared to its precedents.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of TheraCell Zone Mosquito Repellent VI-C.

References

A. Information provided by the applicant

PMRA

Document

Number	Reference
2597208	2015, DACO 3.1_Product Identification, DACO: 3.1 CBI
2597209	2012, Product Identity and Composition of ESD12101 Oil Concentrate, DACO: 3.2.1,3.2.2,3.2.3 CBI
2597210	2012, Analysis and Certification of Product Ingredients of ESD12101 Oil Concentrate EPA Reg. No. 73049-XXX, DACO: 3.3.1,3.4.1,3.4.2 CBI
2597211	2012, Physical and Chemical Properties of ESD12101 Oil Concentrate, DACO: 3.5.1,3.5.11,3.5.12,3.5.13,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8,3.5.9 CBI
2597212	2013, Shelf-Life Storage Stability and Corrosion Characteristics of ESD12101 Oil Concentrate (73049-XXX), DACO: 3.5.10,3.5.14 CBI
2597213	2015, DACO 3.5.15_Dielectric Breakdown Voltage, DACO: 3.5.15 CBI
2597214	2015, DACO 3.5.4_Formulation Type, DACO: 3.5.4 CBI
2597215	2015, DACO 3.5.5_Container Material and Description, DACO: 3.5.5 CBI
2597216	2015, Mosquito Repellent Cartridge, DACO: 3.5.5 CBI
3091937	2020, Thermacell Radius Zone Mosquito Repellent VI-B, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.3.1, 3.4.1, 3.4.2, 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.9 CBI
3091941	2020, 3.2.1- 3.2.3, DACO: 3.2.1,3.2.2,3.2.3 CBI
3091948	2020, DACO 3.5.5 Container Material, DACO: 3.5.5 CBI
3129542	2020, DACO 5.2 Use Description / Exposure Scenarios for Thermacell Radius Zone Mosquito Repellent VI-C, DACO: 5.2
3091927	2020, Value Summary for Thermacell Radius Zone Mosquito Repellent VI-B, DACO: 10.1
3091934	2020, Thermacell Radius Zone Mosquito Repellent VI-B, DACO: 10.2.3.3(C)

B. Additional information considered

Published information

PMRA

Document

Number	Reference
2409268	U.S. EPA (2012a). Standard Operating Procedures for Residential Pesticide Exposure Assessment. EPA: Washington, DC. Revised October 2012.

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