

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 2.5, 3.11, 3.12 Application

Application Number:	2011-5302
Application:	B.2.1 (product chemistry – guarantee) B.2.3 (product chemistry – identity of formulants) B.2.4 (product chemistry – proportion of formulants) B.2.5 (product chemistry – formulation type) B.3.11 (product labels – new pests) B.3.12 (product labels – new site or host)
Product:	Optigard Ant Gel Bait Insecticide
Registration Number:	30788
Active ingredients (a.i.):	Thiamethoxam (THE)
PMRA Document Number:	2209001

Purpose of Application

The purpose of this application was to register a new ant gel bait insecticide product containing thiamethoxam (0.01%). Optigard Ant Gel Bait Insecticide is a commercial product intended for use in outdoor and indoor commercial, industrial and residential areas.

Chemistry Assessment

Optigard Ant Gel Bait Insecticide is formulated as a gel containing thiamethoxam at a nominal concentration of 0.01%. This end-use product has a density of 1.26 g/mL and a pH of 6.6. The chemistry requirements for Optigard Ant Gel Bait Insecticide are complete.

Health Assessments

Optigard Ant Gel Bait Insecticide is considered to be of low acute toxicity to rats via the oral ($LD_{50} > 5000$ mg/kg bw), dermal ($LD_{50} > 5050$ mg/kg bw), and inhalation ($LC_{50} > 2.61$ mg/L) routes. This product is minimally irritating to the rabbit eye, non-irritating to the rabbit skin, and is not a dermal sensitizer in guinea pigs.

Occupational and residential exposures to thiamethoxam are adequately addressed through quantitative and qualitative assessments, and risks are considered to be acceptable for all populations, including children, for indoor and outdoor uses. The personal protective equipment of long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves are standard for commercial applicators and re-entry workers. Residential post-application exposures are considered to be minimal when considering the product formulation, and when following label use precautions and instructions.

Environmental Assessment

The environmental risk associated with the use of Optigard Ant Gel Bait Insecticide to control ants in residential and commercial areas is expected to be minimal. Label statements are required to identify environmental hazards and to reduce the potential exposure of non-target organisms.

Value Assessment

Use history, a foreign review of value information and efficacy data supported the label claims of Optigard Ant Gel Bait Insecticide.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the registration of this new commercial product, Optigard Ant Gel Bait Insecticide, for use in outdoor and indoor commercial, industrial and residential areas.

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