

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 3.1, 3.11, 3.12, 3.4 Application

Application Number: 2009-0746
Application: New product chemistry: guarantee, identity of formulants, proportion of formulants
New product label: application rate increase, new pests, new site or host, application method
Product: AGITA 10 WG
Registration Number: 30336
Active ingredients (a.i.): Thiamethoxam, (Z)-9-Tricosene
PMRA Document Number English PDF: 2119382

Purpose of Application

The purpose of this application was to register a new commercial end-use product for the control of house flies in animal housing and litter beetles in poultry housing based on the precedent product AGITA Fly Bait (Registration Number 28297).

The precedent product AGITA Fly Bait, containing the active ingredients thiamethoxam and (Z)-9-tricosene, was conditionally registered in 2006 as a granular formulation to attract and kill houseflies in agricultural buildings such as barns and poultry houses. AGITA Fly Bait was converted to full registration in 2010; please refer to the Evaluation Report under Application Number 2008-3580 in the public registry for details.

Chemistry Assessment

AGITA 10 WG is guaranteed to contain two active ingredients, thiamethoxam and (Z)-9-tricosene at concentrations of 10% (nominal) and 0.05% (nominal) respectively. This product has density range of 0.6598–0.6686 g/mL at 20 °C and pH between 6.8 - 8.8. The chemistry requirements for AGITA 10 WG are complete.

Health Assessments

AGITA 10 WG is of low toxicity to rats via the oral and dermal routes of exposure. It is non-irritating to the eyes of rabbits and is mildly irritating to the skin of rabbits. A dermal sensitization study using the Buehler method yielded negative results in guinea pigs.

A risk assessment was performed for AGITA 10 WG as the proposed application methods represent new use scenarios for active ingredients thiamethoxam and (Z)-9-tricosene. Exposure to mixers, loaders, applicators and post-applicators is considered acceptable when wearing the personal protective equipment listed and following the precautions, directions and use restrictions on the label.

Environmental Assessment

No additional environmental data are required for the registration of AGITA 10 WG, containing thiamethoxam and the pheromone, (Z)-9-tricosene, for control of house flies and litter beetles in agricultural premises. Based on the indoor use pattern of AGITA 10 WG, limited surface areas treated and the usually limited accessibility to these areas by non-target organisms, non-target exposure is considered minimal and the label restrictions are considered adequate for mitigating any environmental concerns.

Value Assessment

Three efficacy trials on house flies and one on litter beetles were provided, as well as various supplementary data. The data demonstrated that AGITA 10 WG provided control of house flies for up to 6 weeks and kills adult and larval litter beetles on contact within 7 days. From a value and sustainability perspective, use of AGITA 10 WG for control of house flies in agricultural buildings and to kill litter beetles on contact in poultry houses is acceptable. Both the spray and paint application methods are acceptable for control of house flies, and the band spray method is acceptable to kill litter beetles on contact. The product is to be applied to areas where house flies congregate or to litter beetles' main migration routes towards the new litter.

Conclusion

The PMRA conducted an evaluation of the subject application and determined that use of the product in accordance with the label has value and will not pose unacceptable health or environmental risk.

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