Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 3.3 and 3.11 Application

Application Number: 2008-4088
Application: To amend the label to add a new pest and a maximum number of applications.
Product: Demand CS Insecticide
Registration Number: 27428
Active ingredients (a.i.): Lambda-cyhalothrin
PMRA Document Number : 1931128

Purpose of Application

The purpose of this application was to add a new pest, bed bugs, to the label of the registered product Demand CS Insecticide (100g/L lambda-cyhalothrin; Reg No. 27428), and to designate a maximum number of applications.

Chemistry and Environmental Assessment

Chemistry and environmental assessments were not required for this application.

Health Assessments

A toxicology assessment was not required as there was no change to the product formulation.

No increase in mixer/loader/applicator, post-applicator or bystander exposure is anticipated for the request to add the target pest (beg bugs) as this use fits within the existing indoor crack and crevice use pattern. Additionally, the request to designate a maximum number of applications is not expected to result in an increase in exposure as the previously registered use had no maximum application limit. Therefore, no mixer/loader/applicator, post-application or bystander exposure risk assessments were required for this application.

Value Assessment

Five studies were submitted for review. The data demonstrated that Demand CS Insecticide applied at a concentration of 0.03% lambda-cyhalothrin killed bed bugs after contact. Therefore, the use of Demand CS Insecticide for control of bed bugs is acceptable. Re-application after re-infestation is required.

Canada

Conclusion

The PMRA has completed an assessment of available information for Demand SC Insecticide and has found the information sufficient to support amendments to the label to include bed bugs as a pest and set a maximum number of applications.

References

1153043 2006, DEMAND CS Insecticide: Adverse Effects on Use Site - Note to the Reviewer, DACO: 10.3.1

1153048 2006, Rationale to Add Residential Use to the DEMAND CS Insecticide Label, DACO: 10.1,10.2.3.1,10.2.3.3

1611094 2005, Evaluation of the repellency of dried Deposits of Demand CS 0.03 percent and Suspend SC 0.03 percent on filter paper, when exposed to Adult Bed Bugs (*Cimex lectularius*)., DACO: 10.2.3.2

1611095 1998, Susceptibility of the bedbug to selected insecticides and various treated surfaces, DACO: 10.2.3.2

1611096 2005, Evaluation of Demand CS residual when applied to stainless steel and wood panels and exposed to Bed bug nymphs (*Cimex lectularius*)., DACO: 10.2.3.2

1783148 Moore, D and Miller, D., 2006, Laboratory Evaluations of Insecticide Product Efficacy for Control of *Cimex lectularius*, Entomology Society of America, Vol 99:6, pp 2080-2086. DACO: 10.2

1783149 Todd, R., 2006, Efficacy of Bed Bug Control Products in Lab Bioassays: Do They Make It Past the Starting Gate, American Entomologist, Vol 52:2, pp 113-116. DACO: 10.2

ISSN: 1911-8082