



## Evaluation Report for Category B, Subcategory 2.6 Application

**Application Number:** 2010-0876  
**Application:** New EP Product Chemistry-New combination of TGAIs  
**Product:** Raid Ant Roach & Earwig Bug Killer 19  
**Registration Number:** 30355  
**Active ingredients (a.i.):** Pyrethrins (PYR), Piperonyl butoxide (PBU) and Cyfluthrin (CXF)  
**PMRA Document Number :** 2122328

### Purpose of Application

The purpose of this application was to register a new domestic end-use product, Raid Ant Roach & Earwig Bug Killer 19, with a new combination of registered active ingredients, pyrethrins, piperonyl butoxide and cyfluthrin. Raid Ant Roach & Earwig Bug Killer 19 was proposed for indoor use as direct kill and residual control of ants, cockroaches, earwigs, spiders, multi-coloured Asian lady beetles, centipedes, silverfish and crickets.

### Chemistry Assessment

Raid Ant Roach & Earwig Bug Killer 19 is formulated as a pressurized product containing pyrethrins at a nominal concentration of 0.20%, piperonyl butoxide at a nominal concentration of 0.48%, and cyfluthrin at a nominal concentration of 0.05%. This end-use product has a density of 0.915 g/cm<sup>3</sup> and pH of 5.92. The chemistry requirements for Raid Ant Roach & Earwig Bug Killer 19 are complete.

### Health Assessments

Raid Ant Roach & Earwig Bug Killer 19 is of low acute toxicity to rats via the oral, dermal, and inhalation routes of exposure. It is minimally irritating to the eye and mildly irritating to the skin of rabbits. It is not a dermal sensitizer in guinea pigs.

A human health risk assessment was completed for the new end-use product, Raid Ant Roach & Earwig Bug Killer 19. Domestic indoor use of this aerosol product would not result in unacceptable risks to users or bystanders.

### Environmental Assessment

The use pattern registered for Raid Ant Roach & Earwig Bug Killer 19 would result in limited environmental exposure. Environmental concerns are mitigated with the addition of the hazard statements on the products labels.

### Value Assessment

Efficacy data from four laboratory trials and a precedent product supported the label claims of Raid Ant Roach & Earwig Bug Killer 19. One trial demonstrated 100% mortality of pavement ants for up to two weeks when the tested product was applied on vinyl or plywood. However, a precedent product supported the long-lasting control of ants, cockroaches, earwigs, spiders and crickets for up to 10 days. Three trials demonstrated 100% mortality of cockroaches, silverfish, crickets, centipedes, spiders, ants, earwigs and multi-coloured Asian ladybird beetles when the tested product was applied directly to the targeted pest.

## **Conclusion**

The PMRA has conducted a review of the available information and has determined that the claim for control of ants, cockroaches, earwigs, spiders, multi-coloured Asian ladybird beetles, centipedes, silverfish and crickets by direct contact can be supported. However, the residual control claim is only supported for ants, cockroaches, earwigs, spiders and crickets in this application. Raid Ant Roach & Earwig Bug Killer 19 is acceptable for full registration.

## **References**

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