



## **ADVICE SUMMARY**

### **APPLICATION FOR REGISTRATION OF A CHEMICAL PRODUCT**

**Product name:** COMBAT ROACH KILLING BAIT STRIPS  
**Applicant:** HENKEL AUSTRALIA PTY LTD  
**Product number:** 70308  
**Application number:** 62975

**Purpose of Application and Description of Use:** Registration of a 0.1 g/kg fipronil bait product for the control of cockroaches in indoor and outdoor household situations.

**Active Constituent(s):** FIPRONIL

#### **Regulatory Decision:**

To grant the application subject to the following conditions:

#### **Standard Conditions of Registration/Approval**

1. Containers must meet AgVet Code Regulation 18
2. Agricultural products must meet Active Constituents Quality Assurance Requirements
3. Label must contain a Date of Manufacture and Batch Number

For full conditions, refer to Standard Conditions for Applications on the APVMA website.

## **Non-Standard Conditions of Registration/Approval**

Registration/approval is granted on the condition that it is subject to the relevant outcomes of the reconsideration referred to at page 59 of the NRA / APVMA Gazette dated October 2003 (Fipronil).\*

\*Explanatory Note: you should be aware that the APVMA will take steps to apply the outcomes of that reconsideration to this registration/approval as it thinks fit.

Add in full, any additional non-standard conditions that will appear on the Notice.

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### **State/External Efficacy Reviewer**

Efficacy data are presented from two replicated laboratory trials conducted in California, USA and Altona, Victoria.

Efficacy was assessed on German cockroach *Blattella germanica* and American cockroach *Periplaneta americana*. Combat Roach Killing Bait Strips (Combat) were compared to a registered standard containing 0.1 g/kg fipronil applied as a granular bait. The baits were each applied to a container with 14 females, 14 males and 14 nymphs and mortality assessed daily for 14 days. Dead cockroaches were removed daily from the container. Each treatment was replicated 3 times and standard statistical analyses (ANOVA, L

Combat® was equally effective as the registered standard when used to control American cockroaches, with a mortality at 14 days after application of 94% compared to 93% for the standard. Mortality in the untreated control was 3%. At 14 days after application to German cockroaches, mortality for both Combat® and the registered standard was 98% with 9% mortality in the untreated control.

There were no differences in mortality between gender or stage of development for either treatment.

In a second trial, to demonstrate product transference, two groups of fifty (5 replicates of 10) adult male cockroaches were killed by freezing or exposure to Combat® bait strips. Forty 1<sup>st</sup> and 2<sup>nd</sup> instar nymphs were confined with each of the 2 groups of dead cockroaches for 48 hours where they fed on the dead cockroaches and faeces. Dead nymphs were counted after 24 hours and daily for 5 days.

After 6 days, there was an 82% mortality of nymphs confined with dead adults treated with Combat® bait strips compared to 3% mortality of nymphs confined with freeze-killed adults confirming a secondary kill from contact with and ingestion of treated cockroaches or faeces.

The reviewer concluded that the data were acceptable to demonstrate that the product when used as directed would be effective as claimed on the label.

## Data relied on to provide the advice

Data No	Data Source*	Author(s)	Title	Date	Data Type	Data Sub-type	Authorising Party	Inherited Application No.
91775	S	Erik Hofstede	Clorox Formula F1997.0315 - German Cockroach Secondary Kill Efficacy	12 November 1997	Efficacy and safety	Efficacy	Applicant	
91776	S	Erik Hofstede	Clorox Formula F1997.0315 - German Cockroach Secondary Kill Efficacy - appendix 1 raw data	12 November 1997	Efficacy and safety	Efficacy	Applicant	
91774	S	B Humphrey	Evaluation of the mortality of Combat Roach Killing Bait Strips on Black German and American Cockroaches	August 2014	Efficacy and safety	Efficacy	Applicant	

\* S = Data submitted with the application

I = Data inherited (that is, referenced) from another application