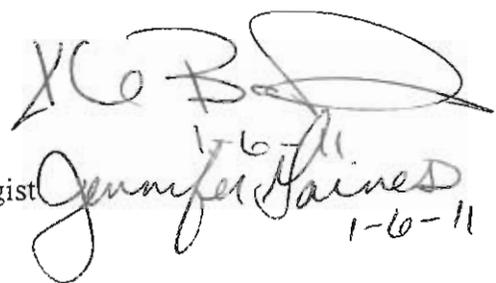


US EPA ARCHIVE DOCUMENT

**EFFICACY REVIEW**

**PRODUCT:** Chemisco Roach Control I  
**REG. NUMBER:** 9688-193  
**DATE:** January 6, 2011  
**DP BARCODE:** D385378  
**DECISION NUMBER:** 443510  
**GLP:** No  
**CHEMICAL:** Indoxacarb (0.1%)  
**CHEMICAL NUMBER:** 067710  
**PURPOSE:** Provide efficacy data to support the addition of new marketing claims (i.e., 6 month residual and ovicidal claims).  
**MRID:** 48332601. Wood, T. (2010) *Efficacy of Chemsico Roach Control I Against German Cockroach Eggs. Unpublished study prepared by Chemsico. 8 p.*

**TEAM REVIEWER:** Autumn Metzger; Biologist  
**EFFICACY REVIEWER:** Kable Bo Davis, Entomologist



Handwritten signatures and dates: "XC B Davis" (signature), "1-6-11" (date), "Jennifer Gaines" (signature), "1-6-11" (date).

**SECONDARY EFFICACY REVIEWER:** Jennifer Gaines, Wildlife Biologist

**BACKGROUND:**

Chemsico Roach Control I is a ready-to-use insecticide intended for the indoor residential control of cockroaches. The product consists of 0.07 oz bait stations that are to be placed in "out of the way" areas that are frequented by cockroaches, e.g., under appliances and sinks. The labeled application rate is a minimum of ten stations in the kitchen and two in the bathroom. The number of bait stations should be increased for heavily infested areas. Proposed claims include:

- "Kills roaches for up to 6 months."
- "Lasts for up to 6 months."
- "Kills roaches [fast] and the eggs they carry."
- "...killing other roaches and the eggs they carry..."

**DATA REVIEW:**

The following data review is comprised of explanations of materials and methods, and a summation of experimental results containing a table with reformatted data.

**48332601. Wood, T. (2010) Efficacy of Chemsico Roach Control I Against German Cockroach Eggs. Unpublished study prepared by Chemsico. 8 p.**

The experimental design consisted of introducing fifteen female German cockroaches carrying ootheca into aquariums containing food, water and harborage. Post-introduction, one bait station (fresh, aged 4-months or aged 6-months) was placed into each aquarium. There were a total of three replicates per treatment. Control groups lacked the introduction of bait stations, however still held food, water and harborage. The number of ootheca producing viable cockroach nymphs was recorded daily.

Results-

**Table 1. Egg Case Viability**

Treatment	Total Hatched Ootheca					
	24-hr	48-hr	72-hr	216-hr	336-hr	408-hr
Bait	2.2%	4.4%	6.7%	6.7%	6.7%	6.7%
Control	0.0%	0.0%	13.3%	33.3%	86.7%	86.7%
Bait (4-month)	4.4%	6.7%	8.9%	11.1%	11.1%	11.1%
Control	6.7%	6.7%	13.3%	40.0%	66.7%	80.0%
Bait (6-month)	0.0%	2.2%	4.4%	17.8%	17.8%	-
Control	0.0%	0.0%	0.0%	40.0%	86.7%	-

Tests show a decrease in the number of viable eggs for German cockroaches exposed to Chemsico Roach Control I.

**RECOMMENDATIONS:**

The submitted data do not support the addition of 6-month residual or ovicidal claims. The following recommendations apply:

1. All claims referring to 6 months of residual control must be deleted throughout the label. To have these claims added back on in the future, acceptable data must be submitted for both German and American cockroaches. Alternatively, the label may be restricted to the control of German cockroaches and the terms “cockroaches” and “roaches” would need to be revised to read “German cockroaches” throughout the label.
2. All claims referring to ovicidal (egg) control must be deleted throughout the label. To have these claims added back on in the future, acceptable data must be submitted for both German and American cockroaches. Alternatively, the label may be restricted to the control of German cockroaches and the terms

“cockroaches” and “roaches” would need to be revised to read “German cockroaches” throughout the label.

3. All future efficacy submissions should include the raw data.
4. Delete the claim “*Quick Kill Formula*”.
5. Revise “*Kills in Hours*” to read “*Starts Killing in Hours*”.
6. Revise “*Kills in 24 Hours*” to read “*Starts Killing in 24 Hours*”.
7. Revise “*Works in 24 Hours*” to read “*Starts Working in 24 Hours*”.