

## EFFICACY REVIEW

**PRODUCT:** Chemsico Ant & Roach Control 5DG

**REG. NUMBER:** 9688-271

**DATE:** January 28, 2011

**DP BARCODE:** D385862

**DECISION NUMBER:** 443698

**GLP:** No


**CHEMICAL:** Dinotefuran (0.05%); gel bait


**CHEMICAL NUMBER:** 044312

**PURPOSE:** Provide efficacy data to support the addition of new marketing claims.

**MRID:** 48337001. Wood, T. (2010) Efficacy of Chemsico Ant & Roach Control SDG Against German Cockroach Eggs. Unpublished study prepared by United Industries Corp. 7 p.

**TEAM REVIEWER:** Rita Kumar

**EFFICACY REVIEWER:** Joanne S. Edwards, M.S., Entomologist  1/28/11

**SECONDARY EFFICACY REVIEWER:** Autumn Metzger, M.S., Biologist  1/28/11

### BACKGROUND:

Chemsico Roach Control 5DW is a ready-to-use insecticide intended for the indoor residential control of cockroaches. The product consists of a gel that is to be applied as ¼ inch diameter spots or as a line along cracks and crevices in areas where roaches have been observed, such as behind and under stoves, refrigerators, dishwashers, sinks, cabinets and closets.

The new claims requested are “Kills roach eggs” and “Kills 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 tables with reformatted data.

**48337001. Wood, T. (2010) Efficacy of Chemsico Ant & Roach Control SDG Against German Cockroach Eggs. Unpublished study prepared by United Industries Corporation. 7 p.**

Egg Case Viability Study

The experimental design consisted of introducing fifteen female German cockroaches carrying ootheca into each of four (10-gallon) aquariums containing food, water and harborage. Post-introduction, 5 grams of gel bait was placed into each of three aquariums. One aquarium served as the control (no bait station; contained food, water and harborage.). The number of ootheca producing viable cockroach nymphs was recorded daily.

Results-

**Table 1. Egg Case Viability**

Treatment at Time Zero	% Total Hatched Ootheca					
	24-hr	72-hr	168-hr	336-hr	384-hr	408-hr
Bait	2.2%	4.4%	13.3%	15.6%	15.6%	15.6%
Control	0%	13.3%	26.7%	73.3%	73.3%	73.3%
Treatment at 3 Months	24-hr	72-hr	192-hr	216-hr	264-hr	360-hr
Bait (4-month)	0%	6.7%	13.3%	13.3%	17.8%	17.8%
Control	0%	26.7%	53.3%	60%	80%	80%

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

**RECOMMENDATIONS:**

There is no objection to the claim "Kills Roaches and the Eggs they Carry". Delete the phrase "Kills roach eggs", since this implies the product works as a direct ovicide.