

## Evaluation Report for Category B Subcategory B.2.1, B.2.3 & B.2.4 Application

**Application Number:** 2004-1754  
**Application:** B.2.1, B.2.3 & B.2.4: New EP Product Chemistry-Guarantee, Identity of Formulants, & Proportion of Formulants  
**Product:** ECO2000-RX Freshbait Cockroach Bait  
**Registration Number:** 29154  
**Active ingredients (a.i.):** Boric Acid  
**PMRA Document Number:** 1676921

### Purpose of Application

The purpose of the application is to register a new end use product, ECO2000-RX Freshbait Cockroach Bait, based on the registered precedent product, ECO2000-XP Cockroach Bait (Registration No. 25360). ECO2000-RX Freshbait Cockroach Bait contains the active ingredient boric acid. The product is proposed for use to control cockroaches in restaurants, food and feed processing establishments, hotels, motels, hospitals, nursing homes, markets, grocery stores, schools, offices, ships, boats, Yachts, buses, trains, warehouses, factories, zoos, kennels, new construction utilities, apartment buildings, garages, mobile homes and sewers. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

### Chemistry Assessment

ECO2000-RX Freshbait Cockroach Bait, is formulated as a paste containing boric acid at a nominal concentration of 44.95%. This end-use product has a density of 1.23 g/mL and pH of 6.42. The chemistry requirements for ECO2000-RX Freshbait Cockroach Bait are complete.

### Health Assessments

ECO2000-RX Freshbait Cockroach Bait is considered to be of moderate acute toxicity to mammals via the oral ( $LD_{50}$  between 500 and 1000 mg/kg bw), and of low toxicity by dermal ( $LD_{50} > 2000$  mg/kg bw), and inhalation routes ( $LC_{50} > 2.01$  mg/L). It is mildly irritating to the eye and non-irritating to the skin of rabbits. It is not a dermal sensitizer in guinea pigs.

The change in formulation should not result in an increase in potential occupational or bystander exposure over currently registered uses of the active ingredient. The application rate, number of applications, frequency of applications and method of application for ECO2000-RX Freshbait Cockroach Bait are similar to those currently registered on other labels containing boric acid as the active ingredient.

### **Environmental Assessment**

No environmental concerns were identified as the use pattern of the new end-product ECO2000-RX Freshbait Cockroach Bait is for indoor use (e.g., sewers, zoos, kennels). Environmental exposure, therefore, is expected to be minimal when the product is used according to label instructions.

### **Value Assessment**

One laboratory trial was submitted which investigated the efficacy of ECO2000-RX Freshbait Cockroach Bait against 50 German cockroaches. The submitted efficacy data demonstrated 100% control of German cockroaches using ECO2000-RX Freshbait Cockroach Bait in the presence of an alternative food source. Based on the results of the efficacy trial and similarity with other registered products containing boric acid, the control claim of cockroaches in structures is supported for this product.

### **Conclusion**

The Agency has completed an assessment of available information for ECO2000-RX Freshbait Cockroach Bait for use of to control cockroaches in various structures and has found the information sufficient to allow for full registration.

### **References**

#### **List of Studies/Information Submitted by Registrant/Applicant**

##### Chemistry Assessment

<u>PMRA #</u>	<u>Title</u>
846555	Determination of Boron in Solution by ICP-OES, DACO: 3.4.1, CBI
846556	3.5 Chemical and Physical Properties, DACO: 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.7, 3.5.8, 3.5.9, CBI
846561	Description of Starting Materials, DACO: 3.2.1, CBI
846562	Establishing Certified Limits, DACO: 3.3.1, CBI

##### Value Assessment

<u>PMRA #</u>	<u>Title</u>
1053367	2005, Efficacy of Ecolab Boric Acid Baits: ECO2000RX and ECO2000GR, 20050007, DACO: 10.2.3.2 CBI

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