

Evaluation Report for Category B, Subcategory B.2.3, B.2.4, B.3.11, B.3.12 Application

Application Number: 2007-8830
Application: B.2.3 (Changes product chemistry – identity of formulants)
B.2.4 (Changes product chemistry – proportion of formulants)
B.3.11 (Changes to product labels – new pests)
B.3.12 (Changes to product labels – new site)
Product: Niban Granular Bait C
Registration Number: 26565
Active ingredients (a.i.): Boric acid (BOA)
PMRA Document Number: 1786990

Purpose of Application

The purpose of this application was to add additional pests, to add use sites to the registered label of Niban Granular Bait C (Reg. No. 26565) and to add alternative formulants with corresponding changes in formulant proportions.

Chemistry Assessment

Niban Granular Bait C is a granular solid containing the active ingredient boric acid at a nominal concentration of 5 %. This product has a density of 0.521 g/cm³ and is not dispersible in water (so no pH value was measured). This product contains the allergen eggs, which is not yet indicated on the label. The chemistry requirements for Niban Granular Bait C have been completed.

Health Assessments

Niban Granular Bait C is considered to be of low acute toxicity to rats via the oral, dermal and inhalation routes. It is considered to be mildly irritating to the eyes and slightly irritating to the skin. Niban Granular Bait C is not considered to pose a dermal sensitization hazard.

A health assessment has been conducted for Niban Granular Bait C. It is not expected that exposure to handler and bystander will increase over the current exposure.

Environmental Assessment

An environmental assessment was conducted on Niban Granular Bait C to add new pests, new sites, new formulants and formulant proportions. This product is similar to an already registered product Niban Granular Bait C (Reg. No. 26565). Also, Niban Granular Bait C is to be used in very small areas, therefore the risk of exposure to non-target organisms in the environment is negligible if label directions are followed.

Value Assessment

Ten trial reports were submitted for review. The product was effective in killing Argentine ants, pavement ants, German and Asian cockroaches and outdoor American cockroaches and mole crickets. Outdoor performance was maintained for up to 25 days, but the amount of active ingredient was reduced by 90% in the presence of up to 2.5 inches (6.25 cm) of accumulated rainfall.

The label claims for Niban Granular Bait C for the control of mole crickets, ants and cockroaches are acceptable. Both indoor and outdoor control claims are supported for ants and cockroaches. The proposed use pattern of 1-2 kg of product/100m², applied in a band 0.6-1.2 m wide around exterior perimeter areas of structures for exterior control of ants is supported.

Conclusion

All of the data and information submitted with this application have been reviewed and it has been determined that the registration of Niban Granular Bait C can be supported.

References

- 1524246: 2007, Value Summary, DACO: 10.1.
- 1524247: 2007, Summary, DACO: 10.2.3.1.
- 1524248: 1991, The Toxicity of Bug Bait on Three Urban Pests, N-P-1; Bug Bait, DACO: 10.2.3.2(C).
- 1524249: 2003, Molluscicidal Properties of Boric Acid, N-SS-2, DACO: 10.2.3.2(C).
- 1524250: 2006, Efficacy Evaluation of Bait Formulations under Controlled Laboratory Conditions against Pest Slugs and Snails, N-SS-1; Study Coe 06/31, DACO: 10.2.3.2(C).
- 1524251: 2002, Laboratory Evaluation of NiBan Granular Bait in the Control of Southern Fire Ants, N-SA-1; 147-02, DACO: 10.2.3.2(C).
- 1524252: 2002, Laboratory Evaluation of NiBan Granular Bait in the Control of Pavement Ants, N-PA-1; 134-02, DACO: 10.2.3.2(C).
- 1524253: 2002, Laboratory Evaluation of NiBan Granular Bait in the Control of Argentine Ants, N-AA-1; 252-02, DACO: 10.2.3.2(C).
- 1524254: 2003, Laboratory Evaluation of Weathered NiBan Granular Bait in the Control of the Argentine Ant, N-AA-2; 333-02, DACO: 10.2.3.2(C).
- 1524255: 2002, NiBan Weather Testing Report, N-BAE, DACO: 10.2.3.3.
- 1524256: 1988, Mole Cricket Control with R Values Boric Acid Mole Cricket Insecticide, N-C-1; R-Value, DACO: 10.2.3.3(C).
- 1524257: 2003, Efficacy of NiBan Granular Bait on Various Arthropods, Especially *Periplaneta* spp. around Texas Structures, N-P-2; Niban, DACO: 10.2.3.3(C).

Other References

- 1556724: GORE, J.C. *et al.*, 2004, Water Solutions of Boric Acid and Sugar for Management of German Cockroach Populations in Livestock Production Systems, *J. Econ. Entomol.* 97(2): 715-720, DACO: 10.2.3.2(C)
- 1556727: KLOTZ, J.H. *et al.*, 2000, Toxicity and Repellency of Borate-Sucrose Water Baits to Argentine Ants (Hymenoptera: Formicidae), *J. Econ. Entomol.* 93(4): 1256-1258, DACO: 10.2.3.2(C)

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services
Canada 2009

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.