

Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2010-5512
Application: Application to fulfill conditions of full registration
Product: Actinovate SP
Registration Number: 28672
Active ingredient (a.i.): *Streptomyces lydicus* strain WYEC108
PMRA Document Number: 3619342

Background

Actinovate SP, containing the active ingredient *Streptomyces lydicus* strain WYEC108, was first registered in Canada in 2007 to suppress Botrytis fruit rot and powdery mildew on field and greenhouse strawberries as well as powdery mildew on field and greenhouse peppers and Gerber daisies. The detailed review can be found in Proposed Registration Decision PRD2007-10, *Streptomyces lydicus* strain WYEC108, Actinovate SP.

As a condition of full registration, confirmatory storage stability data for Actinovate SP were required. Growth chamber studies and field tests were also required to ensure that no deleterious effects from the microbial pest control agent (MPCA) are expected on potato which is a non-target terrestrial plant that is susceptible to certain *Streptomyces* species.

Purpose of Application

The purpose of this application was to fulfill the conditions of full registration.

Chemistry Assessment

Based on the results from viability testing of Actinovate SP, the end-use product must be stored for no more than 6 months at 5°C in order to maintain its minimum product guarantee of 1.0×10^7 colony forming units (CFU)/g.

Health Assessment

A health assessment was not required for this application.

Environmental Assessment

The submitted field study on potatoes demonstrates that *S. lydicus* strain WYEC108 had no deleterious effects and no signs of disease development on potatoes when directly treated with the MPCA. Therefore, based on the available information in the field study on potatoes with *S. lydicus* strain WYEC108, the MPCA does not pose an unacceptable risk to potatoes. The submitted data addresses the potential pathogenicity from *S. lydicus* strain WYEC108 to potatoes and satisfies the outstanding condition of full registration.

Incident reports

Since April 26, 2007, registrants have been required by law to report incidents, including adverse effects to health and the environment, to the PMRA within a set time frame. The PMRA pesticide incident reporting system also includes voluntary reporting from the public and other government departments. Information on the reporting of incidents can be found on the PMRA website <http://www.hc-sc.gc.ca/cps-spc/pest/part/protect-proteger/incident/index-eng.php>.

Health-related incident reports from Canada and the United States were searched and reviewed for products containing the active ingredient *S. lydicus*. As of May 18, 2011 there were no health-related incident reports submitted to the PMRA or the California Department of Pesticide Regulation, for end-use products containing *S. lydicus*.

Environmental incident reports are obtained from two main sources, the PMRA pesticide incident reporting system and the United States Environmental Protection Agency's (USEPA) Ecological Incident Information System (EIIS). Environmental incidents from Canada and the United States were searched and reviewed for products containing the active ingredient *S. lydicus*. As of May 18, 2011, no environmental incident reports were submitted to the PMRA for end-use products containing *S. lydicus*. As *S. lydicus* is not listed in the USEPA's EIIS, the PMRA assumes that no environmental incidents have been reported to the USEPA.

Value Assessment

A value assessment was not required for this application.

Conclusion

The PMRA conducted an evaluation of the subject application and determined that the conditions of full registration have been fulfilled. The use of Actinovate SP in accordance with the label has value and will not pose unacceptable health or environmental risk.

References

- 1981091 2008, Actinovate SP end-use product (lot no. 120206) storage stability, DACO: M2.11
- 2006348 2002, Streptomyces as plant growth promoting rhizobacteria in a field study of potato, DACO: 9.8.1

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2024

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 Health Canada, Ottawa, Ontario K1A 0K9.