

Evaluation Report for Category B, Subcategory 2.3 & 3.1 Application

Application Number: 2013-0227
Application: Changes to Product Chemistry-Identity of Formulants
Changes to Product Labels-Application Rate Increase or Decrease
Product: Cadence WDG Fungicide
Registration Number: 27496
Active ingredients (a.i.): Boscalid (CHH)
PMRA Document Number: 2335613

Background

Cadence WDG Fungicide (Registration Number 27496, guarantee 70% boscalid) was first registered for use in Canada in 2003.

Purpose of Application

The purpose of this application was to add a new higher rate of Cadence WDG Fungicide (3.9 g boscalid/100m²) with a longer application interval (28 days) to control dollar spot on turf. In addition, a change in product chemistry was reviewed.

Chemistry Assessment

Cadence WDG Fungicide is a wettable granule containing the active ingredient boscalid at a nominal concentration of 70%. This product has a density of 0.464 g/mL and pH of 7.0. The chemistry requirements for Cadence WDG Fungicide have been completed.

Health Assessments

The changes in the specifications of this product do not alter the toxicological profile. No new toxicological data were submitted or required.

An updated health risk assessment was conducted for chemical handlers, re-entry workers and bystanders. No risks of concern were identified for the use of Cadence WDG Fungicide on golf courses. No risks of concern are expected when workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

The change to the label rates of Cadence WDG Fungicide for use on turf does not increase the overall yearly maximum rate; therefore, the proposed use is within the scope of the current environmental risk assessment.

Value Assessment

Fourteen trials conducted in the US between 2002 and 2005 were submitted to support the new rate and interval. Six trials were assessed as supplementary data as disease pressure was low throughout the trials and one assessed dollar spot on turf not grown in Canada (bermudagrass).

Disease pressures ranged from low to high in the trials. Dollar spot growth is weather dependent (21 – 27°C, high humidity and prolonged leaf wetness), so disease pressure can fluctuate throughout the growing season. The level of efficacy expressed when turf was treated with Cadence WDG Fungicide at the new rate (3.92 g a.i./100m²) on a 28-day interval was equivalent to treatment at the currently registered low rate (2.24 g a.i./100m²) on a 14-day interval in all trials. The efficacy was also comparable, or significantly better, than commercial standards applied on a 28-day interval.

Fewer applications were required when applying fungicides on a 28-day interval. Using the longer interval with the higher rate usually resulted in the same amount or less product applied to turf. Fewer applications lead to an economic benefit by reducing the amount of product required, labour costs, equipment use (number of hours) and the time spent making the applications. There is also a social benefit; by reducing the time spent spraying greens, there is less interference with the game of golf.

The value evidence supports the addition to the Cadence WDG Fungicide label of an application at 5.6 g/100m² (3.92 g a.i./100m²) on a 28-day interval to control dollar spot on turf.

Conclusion

The PMRA has completed a review of the available information for Cadence WDG Fungicide and has determined that the information is sufficient to support a change in formulation, as well as the addition of a new higher rate of Cadence WDG Fungicide (3.9 g boscalid/100m²) with a longer application interval (28 days) to control dollar spot on turf.

References

PMRA Document Identification

Reference

2265672 2012, Part 10 Value, DACO: 10.1, 10.2, 10.2.3.4(C), 10.5.2, 10.5.4

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2014

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.