



New or Changes to Product Label - New Pests Evaluation Report for Category B, Subcategory C.3.11 Application

Application Number: 2007-7653
Application: Category C, Subcategory C.3.11 (New or Changes to Product Label - New Pests)
Product: Axial 100 EC Herbicide
Registration Number: 28642
Active ingredients (a.i): Pinoxaden
PMRA Document Number: 1549354

Background

Axial 100 EC Herbicide is a systemic, post-emergence herbicide for control of wild oats, green foxtail, yellow foxtail, volunteer oats, volunteer canary seed and proso millet in spring wheat and barley in the Prairie Provinces and the Peace River, Okanagan, and Creston Flats Regions of British Columbia. Axial 100 EC Herbicide does not have broadleaf weed activity, but it may be tank mixed with a range of broadleaf herbicides to provide broad spectrum weed control. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to include a control claim for barnyard grass on the Axial 100 EC Herbicide label.

Chemistry Assessment

A chemistry assessment was not required as there was no change to product chemistry.

Health Assessment

A health assessment was not required as there was no change to the product formulation and Axial 100 EC Herbicide is presently registered for use in spring wheat and spring barley.

Environmental Assessment

An environmental assessment was not required as the use rate and use pattern are registered.

Value Assessment

Data from a total of 10 trials were submitted for review. The trials were conducted in Manitoba and Saskatchewan in 2006. Visual control of barnyard grass was assessed on 3 occasions during the growing season. Mean control of barnyard grass following an application of 60 g a.i./ha Axial 100 EC + 0.7 L/ha Adigor Adjuvant averaged 86.7% at the early rating, 88.9% at the mid rating, and 90.4% at the late rating over 10 trials. Data also indicated that 60 g a.i./ha is the lowest effective rate of Axial 100 EC Herbicide for barnyard grass control.

The same trials that reported barnyard grass control ratings for the alone treatment of Axial 100 EC also reported barnyard grass control ratings for a tankmix of 60 g a.i./ha Axial 100 EC + 560 g a.i./ha Buctril M + 0.7 L/ha Adigor Adjuvant. The Axial 100 EC + Buctril M herbicide tankmix treatment is presently registered and serves to represent all broadleaf herbicide tankmix partners on the Axial 100 EC label.

The mean level of barnyard grass control provided by the tankmix of Axial 100 EC + Buctril M herbicide was relatively lower than that provided by the alone treatment of Axial 100 EC herbicide over all 3 rating periods.

Based on data submitted for the tankmix partner and as (1) reduction in grass control was historically reported when Axial 100 EC herbicide was tank-mixed with certain broadleaf herbicides (Regulatory Note for Pinoxaden; 2006-14) and (2) data were not submitted to support each of the representative members of the registered tank-mix partners as requested (refer to PMRA # 894892), a footnote must be included in the table under the tank mix section, which should read as “**A reduction in barnyard grass control may be observed when Axial 100 EC Herbicide is tank mixed with these broadleaf herbicides**” (refer to the product label).

Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Axial 100 EC Herbicide to include a control claim for barnyard grass.

Reference

List of Studies/Information Submitted by Registrant

- PMRA # 1491002: Field trial reports. Syngenta Crop Protection Canada. DACO 10.2.3.3. October 15, 2007. pp 47.
- PMRA # 894892: Efficacy (small-scale trials) review report. DACO 10.2.3.3. September 30, 2004. pp. 135.
- REG 2006-14: Regulatory Note for pinoxaden. pp. 123.

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services
Canada 2008

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.