

Evaluation Report for Category B, Subcategory 3.11, 3.12, 3.5 Application

Application Number: 2015-7181
Application: Changes to Product Labels – New Pest/New Site/Rotational Crops, Plantback Interval
Product: Fierce Herbicide
Registration Number: 31117
Active ingredients (a.i.): Flumioxazin and Pyroxasulfone
PMRA Document Number: 2625868

Purpose of Application

The purpose of this application was to amend the registration of Fierce Herbicide to include field corn and spring wheat as host crops, to include spring wheat as a rotational crop with a re-cropping interval of seven days, and to revise the re-cropping interval for field corn from nine months to seven days.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The addition of field corn and spring wheat to the registered label of Fierce Herbicide is not expected to result in potential occupational or bystander exposure over the registered uses of flumioxazin or pyroxasulfone. No health risks of concern are expected when workers follow label directions and wear personal protective equipment and use engineering controls as stated on the label.

No residue data were submitted in support of the amendments for Fierce Herbicide. The approved use directions for Fierce Herbicide, including the application timing, application rate and relevant restrictions, were compared to the labels of the precedent end-use products. Based on this assessment, it was concluded that exposure to residues of flumioxazin and pyroxasulfone in the diet will not pose an unacceptable health risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

Fierce Herbicide consists of two registered active ingredients which are already in use on spring wheat and field corn at similar application rates and soil conditions in Canada compared to the precedent products. Therefore, the use of Fierce Herbicide will not change environmental exposure for either active ingredient, provided that the label amendments are implemented to adequately mitigate environmental concerns.

Value Assessment

The expansion of the use pattern of Fierce Herbicide to include spring wheat and field corn as host crops, as well as spring wheat as a rotational crop, and to revise the re-cropping interval for field corn would provide Canadian growers a greater flexibility to employ Fierce Herbicide for early season weed management.

Spring wheat and field corn as host crops, as well as rotational crops with a seven day re-cropping interval, can be expected to have an adequate margin of crop tolerance to Fierce Herbicide, which is co-formulated with flumioxazin and pyroxasulfone, since both field corn and spring wheat are registered as host crops and immediate plantback crops on the labels of products containing solo flumioxazin and pyroxasulfone. This is corroborated by data from a total of 22 field research trials conducted on field corn and spring wheat in the USA and Canada between 2011 and 2014.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the amendments to the registration of Fierce Herbicide.

References

PMRA Document Number	Reference
---------------------------------	------------------

2597243	2015, Appendix 1: Trial reports for "value summary for Fierce Herbicide - addition of field corn and spring wheat use patterns", DACO: 10.1, 10.2.3.1, 10.3.2(A), 10.5.1, 10.5.2, and 10.5.3.
---------	---

ISSN: 1911-8082

**8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services
Canada 2016**

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.