



Evaluation Report for Category B, Subcategory 2.6 Application

Application Number: 2018-0493
Application: New End-Use Product Product Chemistry-New combination of Technical Grade Active Ingredients
Product: Steadfast IS Herbicide
Registration Number: 33369
Active ingredients (a.i.): Rimsulfuron and nicosulfuron
PMRA Document Number : 2968534

Purpose of Application

The purpose of this application was to register Steadfast IS Herbicide for postemergent application in field corn for control of grass and broadleaf weeds.

Chemistry Assessment

Steadfast IS Herbicide is formulated as a wettable granule containing nicosulfuron and rimsulfuron at concentrations of 25.2% and 12.5%, respectively. This end-use product has a density of 0.51 – 0.71 g/cm³ and pH of 4 – 7. The required chemistry data for Steadfast IS Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Steadfast IS Herbicide is of low toxicity to rats via the oral, dermal (rats and rabbits), and inhalation routes. It is minimally irritating to the eye and slightly irritating to the skin of rabbits. It is not a dermal sensitizer in mice or guinea pigs.

The registration of Steadfast IS Herbicide, which consists of a blend of rimsulfuron and nicosulfuron, for application to field corn to control broadleaf and grassy weeds, fits within the registered use pattern for both active ingredients. As such, the quantitative risk assessments on file for mixer/loader/applicator and postapplication worker exposure, as well as the updated chemical handler risk assessment for nicosulfuron, are adequate to cover the exposure expected from the use of Steadfast IS Herbicide. No health risks of concern were identified provided that the recommended label amendments are made, and that workers wear the appropriate personal protective equipment and follow all label directions.

No residue data for the active ingredients rimsulfuron and nicosulfuron were submitted to support the registration of Steadfast IS Herbicide. The use pattern described on the Steadfast IS Herbicide label is identical to, or more restrictive than, the registered use patterns on the labels of registered products containing each of the active ingredients. Therefore, residues of the herbicide active ingredients in/on treated commodities are not expected to increase and will be covered under the maximum residue limits (MRLs) currently established. Consequently, the dietary

exposure to residues of nicosulfuron and rimsulfuron is not expected to increase with the registration of Steadfast IS Herbicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The use pattern for Steadfast IS Herbicide falls within the currently registered use patterns for rimsulfuron and nicosulfuron. No additional risk to the environment is expected from the registration of this end-use product provided that environmental label statements are followed.

Value Assessment

Steadfast IS Herbicide will provide field corn growers with an option for controlling labelled grassy and broadleaf weeds post-emergence in field corn.

Value information submitted for review consisted of data from replicated field trials and scientific rationales including extrapolations from registered uses. Based on the weight of evidence, the registration of Steadfast IS Herbicide for post-emergent application on field corn is considered to have acceptable value.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to register Steadfast IS Herbicide for postemergent application in field corn for control of grass and broadleaf weeds.

References

PRMA Document Number	References
2846173	2018, Part 3.1-3.3 Chemistry, DACO: 3.1,3.1.1,3.1.2,3.1.3,3.1.4,3.2,3.2.1,3.2.2,3.2.3,3.3.1
2846177	2008, Physical Chemical Properties, DACO: 3.5
2846178	2009, Storage and Stability characteristics, DACO: 3.5.10,3.5.14
2846179	2008, Enforcement Analytical Method, DACO: 3.4.1
2846180	2006, Validation of Enforcement Method, DACO: 3.4.1
2846181	2018, Waiver - acute tox, DACO: 4.6,4.6.1,4.6.2,4.6.3,4.6.4,4.6.5,4.6.6
2846172	2017, Value Document, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.2.3.3(B), 10.3, 10.3.1, 10.3.2(A)

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services
Canada 2019

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.