

Evaluation Report for Category B, Subcategory 3.2, 3.12 Application

Application Number: 2012-3297
Application: Product labels – application timing, new site or host
Product: Heat WG
Registration Number: 29368
Active ingredients (a.i.): Saflufenacil (SFF)
PMRA Document Number: 2327714

Purpose of Application

The purpose of this application was to register a new use pattern for the end-use product Heat WG (saflufenacil, 70%) as a harvest aid/desiccant, involving changes in application timing and preharvest intervals, for canola, mustard (all varieties) and flax.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

Heat WG Herbicide for use on canola, flax and mustard fields as a harvest aid desiccant fits within the registered use pattern for saflufenacil. The potential exposure to mixers, loaders, applicators and workers entering treated fields is not expected to exceed the current exposure to registered products. No risks of concern are expected when all label directions are followed.

Residue data for saflufenacil in canola were submitted to support the use expansion of this active ingredient on the Heat WG label. In addition, processing studies on treated canola were assessed to determine the potential for concentration of residues of saflufenacil into processed commodities.

Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for saflufenacil and metabolites M800H11 and M800H35 was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). Table 1 summarizes the residue data used to calculate the proposed MRLs for Crop Subgroup (CSG) 20A.

Table 1. Summary of Field Trial and Processing Data Used to Support Maximum Residue Limits (MRLs) for Saflufenacil.

Commodity	Application Method/ Total Application Rate	Pre Harvest Interval (days)	Combined Saflufenacil Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max			
Canola	Harvest aid/ 49-52 g a.i./ha (WG/SC formulation)	2-7	0.037	0.41	No concentration observed in canola processed fractions	N/A	0.5 For all commodities of CSG 20A

Following the review of all available data, MRLs are recommended to cover residues of saflufenacil and metabolites M800H11 and M800H35 in/on Crop Subgroup 20A. Residues of saflufenacil and metabolites in these commodities at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The proposed application rate for harvest aid falls within what is currently registered for pre-seed or pre-emergence application with other registered crops. No environmental risk assessment was required as the proposed changes will not result in higher risk.

Value Assessment

The submitted data from 20 trials conducted in the Prairie Provinces in 2010 and 2011 demonstrated that the efficacy of Heat WG at 25-50 g a.i./ha plus Merge Adjuvant at 1.0 L/ha or in tank mix with a glyphosate at 900 g a.e./ha plus Merge Adjuvant at 0.5 L/ha as a harvest aid treatment in canola, mustard, and flax was acceptable. When the treatments were applied as directed, crop yield was not affected compared to the untreated control.

Conclusion

The PMRA has completed an assessment of the available information and is able to support the registration of a new use pattern for Heat WG as a harvest aid/desiccant, involving changes in application timing and preharvest intervals, for canola, mustard (all varieties) and flax.

References

PMRA No.	Title
2218885	2010, The Magnitude of Residues of Saflufenacil in Canola Following a Late Season Application of BAS 800 00 H and BAS 800 04 H Used as a Desiccant. Study Report No. 366570. Unpublished. DACO: 7.4.1, 7.4.2, 7.4.6
2218886	2010, The magnitude of Residues of Saflufenacil in Canola Processed Fractions Following a Late Season Application of BAS 800 00 H as a Desiccant. Study No. 366580. Unpublished. DACO: 7.4.5
2218884	2012, Food, Feed and Tobacco Summaries. Unpublished. DACO: 7.1
2218889	2010, Heat WG Herbicide: Addition of harvest aid use pattern on flax, mustard, and canola. Value, pp. 318. DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1, 10.2.3.3, 10.3, 10.3.1, 10.3.2,10.3.3,10.4,10.5,10.5.1,10.5.2,10.5.3,10.5.4

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.