

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2008-5293
Application: B.5.0 – New MRL for Previously Assessed TGAI
Product: FOE 5043 Technical Herbicide
Registration Number: 26232
Active ingredients (a.i.): Flufenacet
PMRA Document Number : 1941982

Purpose of Application

The purpose of this application was to establish MRLs to cover residues of flufenacet in/on the imported commodities sweet corn and wheat.

Health Assessments

To support the establishment of maximum residue limits (MRLs) for flufenacet on imported sweet corn, residue data from previously reviewed trials and processing studies were reassessed. To support the establishment of MRLs for flufenacet on imported wheat, field trials conducted in the United States were reviewed. In addition, processing studies in treated wheat were reviewed to determine the potential for concentration of residues of flufenacet into processed commodities.

Maximum Residue Limits

Recommendations for MRLs for flufenacet in/on imported sweet corn and wheat were based on guidance provided in PRO2005-04 (“Guidance for Setting Pesticide Maximum Residue Limits Based on Field Trial Data”).

Based on the residue data and the MRL statistical methodology, MRLs to cover flufenacet residues of 0.05 in/on imported sweet corn, 0.6 ppm in/on wheat, and 0.8 in/on wheat bran will be established as shown in Table 1. Residues of flufenacet in processed commodities of sweet corn are covered under established MRLs for the raw agricultural commodity (RAC).

Commodity	Application Method/ Total Application Rate	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL
			Min	Max			
Sweet corn kernels plus cob with husks removed	Foliar broadcast/ 1.0-1.2 kg a.i./ha	49-82	<0.05	<0.05	NA	None	0.05 ppm
Field corn grain*	Preplant incorporated/ 1.0 kg a.i./ha	73-128	<0.05	<0.05	NA	0.05	
	Foliar broadcast/ 1.0 kg a.i./ha	81-114	<0.05	<0.05			
Wheat grain	Foliar broadcast/ 0.4 kg a.i./ha	83-263	<0.05	0.49	2.1	None	0.6 ppm for wheat; 0.8 ppm for wheat bran

NA: not applicable.

* Samples were collected at the late milk stage for translation to sweet corn. The data were used to support the MRLs on sweet corn K+CWHR.

Chemistry, Value and Environmental Assessments

Chemistry, Value and Environmental assessments were not required for this application.

Conclusion

Following the review of all available data, MRLs of 0.05 ppm for imported sweet corn kernels plus cob with husks removed, 0.6 ppm for wheat and 0.8 ppm for wheat bran are recommended to cover residues of flufenacet and metabolites containing the 4-fluoro-N-methylethyl benzeneamine moiety. Residues of flufenacet in/on imported sweet corn and wheat at the recommended MRLs will not pose an unacceptable risk to any segment of the population including infants, children, adults and seniors.

References

PMRA Document Number	Reference
839741	1998, FOE 5043 60 DF - Magnitude of the residues in field corn and sweet corn after post emergent foliar spray application, DACO: 7.4.1,7.4.2
839742	FOE 5043 60 DF - Magnitude of the residues in field corn and sweet corn after post emergent foliar spray application;1092 pgs.; POST - EMERGENT TO CROP. Part 2 of 4, DACO: 7.4.1,7.4.2
839743	FOE 5043 60 DF - Magnitude of the residues in field corn and sweet corn after post emergent foliar spray application;1092 pgs.; POST - EMERGENT TO CROP. Part 3 of 4, DACO: 7.4.1,7.4.2
839744	FOE 5043 60 DF - Magnitude of the residues in field corn and sweet corn after post emergent foliar spray application;1092 pgs.; POST - EMERGENT TO CROP. Part 4 of 4, DACO: 7.4.1,7.4.2
839745	AXIOM 68 DF - Magnitude of the Residues in Field Corn and Sweet Corn after Postemergen Foliar Spray Application (Canada); 447pgs.; POST - EMERGENT TO CROP. Part 1 of 2., DACO: 7.4.1,7.4.2
1180710	1995, FOE 5043 60DF-MAGNITUDE OF THE RESIDUE IN FIELD TREATED CORN, DACO: 7.4.1
1180712	1996, FOE 5043 60DF-MAGNITUDE OF THE RESIDUE IN CORN (CANADA). M.KROLSKI. COMPLETION DATE: DECEMBER 18,1996. (107654;F319CO05). [AXIOM DF;SUBN#1997-0819;FOOD, FEED AND TOBACCO RESIDUE VOLUME 9-10 OF 16;SUBMITTED: MAY 12,1997 AND AUGUST 15,1997], DACO
1180718	1995, FOE 5043 60DF-MAGNITUDE OF THE RESIDUE IN CORN PROCESSED PRODUCTS, DACO: 7.4.5
1180733	1998, FOE 5043 60 DF-MAGNITUDE OF THE RESIDUES IN FIELD CORN AND SWEET CORN, DACO: 7.4.2
1672544	1997, FOE 5043 60 DF - Magnitude of the residue in wheat, DACO: 7.4.1,7.4.6
1672552	1997, FOE 5043 60 DF - Magnitude of the residue in wheat processed commodities and aspirated grain fractions, DACO: 7.4.5,7.4.6

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2010

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.