

## Evaluation Report for Category B, Subcategory 5.0 Application

**Application Number:** 2008-5305  
**Application:** B.5.0 - New MRL for previously assessed TGAI  
**Product:** Starane F Technical Herbicide  
**Registration Number:** 24814  
**Active ingredients (a.i.):** Fluroxypyr 1-methylheptyl ester (FLR)  
**PMRA Document Number:** 1902588

### Purpose of Application

The purpose of this application was to establish the maximum residue limits (MRLs) for fluroxypyr in/on imported cereal grains (crop group 15), onions, apples, pears and animal related commodities.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

Residue data for fluroxypyr-meptyl in apples, pears, dry bulb onions and cereal grains from trials conducted in NAFTA representative regions were submitted to support the establishment of maximum residue limits (MRLs) on imported cereal grains, dry bulb onions and pome fruit. In addition, processing studies in treated apples and cereal grains were assessed to determine the potential for concentration of residues of fluroxypyr-meptyl into processed commodities.

**Maximum Residue Limit(s)**

<b>TABLE 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit(s) (MRLs)</b>							
<b>Commodity</b>	<b>Application Method/ Total Application Rate (g a.e./ha)</b>	<b>PHI (days)</b>	<b>Residues (ppm)</b>		<b>Mean Experimental Processing Factor</b>	<b>Currently Established MRL</b>	<b>Recommended MRL</b>
			<b>Min</b>	<b>Max</b>			
Apples	Broadcast to orchard floor/535-588	13-15	<0.01	<0.01	Residues of fluroxypyr were non-quantifiable in treated apples, and juice.	None	0.02  (pome fruit; crop group 11-09)
Pears	Broadcast to orchard floor/541-565	13-14	<0.01	0.016		None	
Dry bulb onions	foliar broadcast ground/ 412-456	42-49	<0.01	0.02	Not required	None	0.03
	foliar broadcast ground/282	43	<0.01	<0.01			
Wheat	Post-emergent/ 273-322	40-107	<0.01	0.12	1.95 (wheat bran); 0.58 (wheat flour)	None	0.5
Barley	Post-emergent/ 273-322	40-81	<0.01	0.4		None	0.5
Oats	Post-emergent/ 273-322	40-71	<0.01	0.39		None	0.5

**TABLE 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit(s) (MRLs)**

			Residues (ppm)				
Field corn	Post-emergent/ 272-292	90-129	<0.01	<0.01	Residues of fluroxpyr were non-quantifiable in grain samples treated at an exaggerated rate.	None	0.02
Sweet Corn	Post-emergent/ 274-282	31-77	<0.01	0.013	Not required	None	0.02
Sorghum	Post-emergent/ 272-297	60-103	<0.01	<0.02	Not required	None	0.02

## Environmental Assessment

An environmental assessment was not required for this application.

## Value Assessment

A value assessment was not required for this application.

## Conclusion

Following the review of all available data, an MRL of 0.5 ppm for barley, oats and wheat; 0.03 ppm for dry bulb onions; and 0.02 ppm for pome fruit (Crop Group 11-09), field corn, sweet corn kernels plus cob with husks removed and sorghum are recommended to cover residues of fluroxypyr-meptyl and fluroxypyr. Residues of fluroxypyr-meptyl and fluroxypyr 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
1672773	2000, Metabolism of Fluroxypyr in Onions (Rijnsburger Hyton), DACO: 6.3
1672776	1996, Determination of Residues of Fluroxypyr in Wheat Processed Fractions Amended Report, DACO: 7.2.1
1672778	1991, Determination of Residues of Fluroxypyr in Processed Fractions of Wheat, DACO: 7.2.1
1672779	1996, Validation Report for the Determination of Residues of Fluroxypyr and Fluroxypyr 1-Methylheptyl Ester as the Acid Equivalent in the Grain, Forage, Straw, and Hay of Wheat, Barley, and Oats by Capillary Gas Chromatography with mass Selective Detection, DACO: 7.2.1,7.2.2
1672780	2000, Residues of Fluroxypyr and Fluroxypyr 1-Methylheptyl Ester as the Acid Equivalent in Grass Forage and Hay by Capillary Gas Chromatography with Mass Selective Detection, DACO: 7.2.1,7.2.2
1672782	1991, Determination of Residues of Fluroxypyr in Corn Forage, Grain and Fodder by Gas Chromatography/Mass Spectrometry, DACO: 7.2.1,7.2.2
1672783	2000, Determination of Residues of Fluroxypyr and Fluroxypyr 1-Methylheptyl Ester as the Acid Equivalent in Sorghum Grain, Forage, and Stover by Capillary Gas Chromatography with Mass Selective Detection, DACO: 7.2.1,7.2.2
1672785	1996, Independent Laboratory Validation of Method GRM 96.02- Determination of Residues of Fluroxypyr and Fluroxypyr 1-Methylheptyl Ester as the Acid Equivalent in the Grain, Forage, Straw and Hay of Wheat, Barley and Oats by Capillary Gas Chromatography with Mass Selective Detection, DACO: 7.2.3
1672791	1990, Determination of Residues of Fluroxypyr in Wheat, Barley and Oat Grain and Straw, DACO: 7.4.1

- 1672792 1990, Determination of Residues of Fluroxypyr in Wheat, Barley and Oat Grain and Straw, DACO: 7.4.1
- 1672793 1996, The Magnitude of Residue of Fluroxypyr in Wheat Following Postemergence Application of XRM-5316 Amended Report, DACO: 7.4.1
- 1672794 1996, The Magnitude of Residue of Fluroxypyr in Oats Following Postemergence Application of XRM-5316 Amended Report, DACO: 7.4.1
- 1672795 1996, The Magnitude of Residue of Fluroxypyr in Barley Following Postemergence Application of XRM-5316 Amended Report, DACO: 7.4.1
- 1672796 2007, Residues of Fluroxypyr in Sweet Corn, DACO: 7.4.1
- 1672797 2007, Residues of Fluroxypyr in Sweet Corn, DACO: 7.4.1
- 1672798 2000, Magnitude of Residue of Fluroxypyr in Sorghum Forage, Grain and Fodder After Use of Fluroxypyr Methylheptyl Ester Herbicide, DACO: 7.4.1,7.4.6
- 1672802 2006, Fluroxypyr: Magnitude of the Residue on Pear, DACO: 7.4.1
- 1672803 2003, Fluroxypyr: Magnitude of the Residue on Onion (Dry Bulb), DACO: 7.4.1
- 1672804 2006, Fluroxypyr: Magnitude of the Residue on Apple, DACO: 7.4.1
- 1672806 1981, Determination of Residues of Fluroxypyr in Wheat Grain and Straw- A Bridging Study, DACO: 7.4.1
- 1672807 1981, Determination of Residues of Fluroxypyr in Wheat Grain and Straw- A Bridging Study, DACO: 7.4.1
- 1672808 1999, Determination of Residues of Fluroxypyr in Sweet Corn Ears, Forage, and Processed Fractions, DACO: 7.4.1,7.4.5,7.4.6
- 1672809 1999, Magnitude of the Residue of Fluroxypyr in Field Corn and Corn Processed Products, DACO: 7.4.1,7.4.5
- 1166924 Frozen Storage Stability of Fluroxypyr in Winter Wheat Immature Plant, Grain and Straw. (GHE-P-4830;ST94-17;B2A;CEMS-311;CEMR-311;ST94-017).(STARANE F HERBICIDE), DACO: 7.3

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