

Evaluation Report for Category B, Subcategory 3.5.0 Application

Application Number: 2008-5466
Application: B.5.0 (New MRL for previously assessed TGAI)
Product: Trifloxystrobin Technical Fungicide
Registration Number: 27526
Active ingredients (a.i.): Trifloxystrobin (TFY)
PMRA Document Number: 1846820

Purpose of Application

Bayer CropScience has submitted an application for the establishment of maximum residue limits (MRLs) for residues of trifloxystrobin in/on imported citrus, rice and the tropical fruits canistel, mango, papaya, sapodilla, sapote (black and mamey) and star apple.

Chemistry Assessment

A chemistry review was not required for this submission.

Health Assessments

Toxicology and occupational exposure reviews were not required for this submission.

Residue data for trifloxystrobin in citrus fruit, papaya and rice from trials conducted in NAFTA representative regions were submitted to support the establishment of MRLs on imported citrus fruits, rice and the tropical fruits canistel, mango, papaya, sapodilla, sapote (black and mamey) and star apple. In addition, processing studies in treated rice and orange were also assessed to determine the potential for concentration of residues of trifloxystrobin into processed commodities.

Maximum Residue Limit(s)

Based on the maximum residues observed in citrus fruit, papaya and rice treated according to US label directions, MRLs to cover residues of trifloxystrobin and the acid metabolite CGA-321113 at 0.6 ppm in/on citrus fruits (Crop Group 10), 3.5 ppm in/on rice, 0.7 ppm in/on the tropical fruits canistel, mango, papaya, sapodilla, sapote (black and mamey) and star apple and 38 ppm in citrus oil will be established as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodities (RACs).

TABLE 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit(s) (MRLs)							
Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Mean Experimental Processing Factor	Currently Established MRL	Recommended MRL
			Min	Max			
Oranges	Broadcast foliar applications/552-570	6-7	0.032	0.33	0.34x (orange juice); 111x (orange oil)	None	0.6 ppm (citrus fruit, crop group 10); 38 ppm (citrus oil)
Lemons			0.066	0.37			
Grapefruit			0.031	0.19			
Papaya	Ground foliar applications/567-584	0	<0.09	0.32	Processing study not required	None	0.7 ppm (canistel, mango, papaya, sapodilla, sapote (black and mamey) and star apple)
Rice	Broadcast foliar spray applications/350	34-40	<0.04	3.43	0.16x (polished rice); 1.1x (rice bran)	None	3.5 ppm

Environmental Assessment

An environmental review was not required for this application.

Value Assessment

A value review was not required for this application.

Conclusion

Following the review of all available data, MRLs of 0.6 ppm for citrus fruits (Crop Group 10), 38 ppm for citrus oil, 3.5 ppm for rice and 0.7 ppm for the tropical fruits canistel, mango, papaya, sapodilla, sapote (black and mamey) and star apple are recommended to cover residues of trifloxystrobin and the acid metabolite CGA-321113. Residues of trifloxystrobin and the acid metabolite 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
1677362	2002, Analytical method for the determination of residues of trifloxystrobin (Flint) and trifloxystrobin acid in/on tomatoes and peppers by LC-MS/MS, DACO: 7.2.1
1677367	2006, Trifloxystrobin: Magnitude of the residue on papaya, DACO: 7.3,7.4.1
1677368	2006, Flint 50 WG- Magnitude of the residue on citrus (crop group 10) - Including residue reduction information, DACO: 7.4.1
1677369	2000, Propiconazole and CGA-279202 - Magnitude of the residues in or on rice, DACO: 7.4.1,7.4.5
1677370	2000, CGA 279202 and CGA 245704: Magnitude of the residues in or on crop group 10: citrus fruits, DACO: 7.4.5

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