



Evaluation Report for Category B, Subcategory 5.0 Application

Application No. 2005-3595
Application: Application category B, subcategory 5.0 (MRLs for registered active ingredients on imported commodities)
Active Ingredient (a.i.): Pyraclostrobin
PMRA Document Number: 1482960

Background

Pyraclostrobin (Reg. No. 27321) is contained in the end use product, Headline EC Fungicide, Cabrio EG Fungicide, Pristine Fungicide and Comet Fungicide for the control of specific disease organisms that affect various commodities. Pyraclostrobin has been registered for use since 2003-03-03.

Purpose of Application

The purpose of this submission is to request maximum residue limits (MRL) to cover combined residues of pyraclostrobin and the metabolite BF 500-3 in/on imported hops, crop groups 4, 5, 10 and 11, sunflowers, mint, mango, papaya, strawberries, and turnip greens.

Chemistry Assessment

A chemistry assessment was not required for this application since pyraclostrobin is already registered in Canada.

Health Assessment

A toxicology assessment and occupational/by-standard exposure assessment were not required for this application since the proposal is to specify MRL on imported commodities of an active ingredients currently registered in Canada.

To support the specification of MRL in/on imported commodities, residue data from field trials conducted in the major growing regions of the US and Canada were reviewed for broccoli, cabbage, celery, grapefruit, lemon, orange, hops, head lettuce, leaf lettuce, mango, mint, mustard leaves, papaya apple, pear, spinach, sunflower, turnip greens, and strawberries. In addition, processing studies were submitted on apples, mint and sunflower.

MRL Recommendations

Recommendations for MRL for pyraclostrobin and the metabolite BF 500-3 in/on imported commodities were based on guidance provided in PRO 2005-04 (“Guidance for Setting Pesticide Maximum Residue Limits Based on Field Trial Data”).

Based on currently established US MRL and maximum residues observed in treated commodities, MRL to cover residues of pyraclostrobin and the metabolite BF 500-3 in/on imported crops and processed commodities will be specified as shown in TABLE 1. Residues of pyraclostrobin in processed commodities not listed in Table 1 are covered under established MRL for the raw agricultural commodity(ies) (RACs).

TABLE 1. Summary of Field Trial Data Used to Establish Maximum Residue Limit(s) (MRL) for Pyraclostrobin and the metabolite BF 500-3.						
Commodity/ Crop Group	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Combined residues of pyraclostrobin and BF 500-3 (ppm)		MRLs Proposed in PMRL2006- 01 (ppm)	Recommended MRL (ppm)
			Min	Max		
Broccoli/5A	Foliar/ 0.86	0	0.39	1.75	-	5
Cabbage/5A	Foliar/ 0.8	0	0.04	4.32	-	5
Celery/4	Foliar/ 0.896	0	1.02	10.7	-	29
Grapefruit/10	Foliar/ 1.0	0	0.07	0.63	0.7	2*
Lemon/10	Foliar/ 1.0	0	0.4	1.14	0.7	2*
Orange/10	Foliar/ 1.0	0	0.17	1.28	0.7	2*
Citrus oil	Based on a HAFT of 1.2 ppm and a concentration factor of 6.1x				4	9*
Hops	Foliar/ 0.739	14	7.91	12.52	-	23
Head lettuce/4	Foliar/ 0.896	0	1.08	14.4	-	29
Leaf lettuce/4	Foliar/ 0.896	0	1.26	21.2	-	29
Mint	Foliar/ 0.896	14	1.82	7.4	-	8
Mustard leaves/5B	Foliar/ 0.896	3	1.13	13.4	-	16
Apple/11	Foliar/ 1.0	0	0.1	0.8	-	1.5
Pear/11	Foliar/ 1.0	0	0.19	0.93	-	1.5
Spinach/4	Foliar/ 0.896	0	5.62	23.38	-	29
Sunflower	Foliar/ 0.450	21	0.04	0.25	-	0.3
Turnip greens	Foliar/ 0.896	0	2.86	12.75	-	16

Strawberries	Foliar/ 1.06	0	0.37	0.85	0.4	1.2
Mango	Foliar/ 0.448	7	0.1	0.1	-	0.1
Papaya	Foliar/ 0.25	7	0.1	0.1	-	0.1

*based on a change in PHI.

Environmental and Values Assessments

Environmental and value assessments are not required for applications to specify MRL on imported commodities.

Conclusions

Following the review of all available data, MRLs for pyraclostrobin and metabolite BF 500-3 of 29 ppm in/on imported crops from crop group 4 (leafy vegetables, except brassica), 16 ppm in/on imported leafy Brassica greens (crop subgroup 5B) and turnip greens, 23 ppm in/on imported hops, 8 ppm in/on imported mint, 9 ppm in/on imported citrus oil, 5 ppm in/on imported crops from crop group 5A (head and stem brassica (cole) vegetables), 2 ppm in/on imported crops from crop group 10 (Citrus fruit), 1.5 ppm in/on imported crops from crop group 11 (Pome fruit), 1.2 ppm in/on imported strawberries, and 0.3 ppm in/on imported sunflower are recommended. Residues in/on imported crops at the recommended MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

List of Studies Submitted by Registrant

PMRA Document Number	Reference
1094369	2003, BAS 500 F: Magnitude of the Residue on Broccoli., Cornell University, Oregon State University, Texas A&M Agricultural Experiment Station, US Department of Agriculture, UC Kearney AG Center, EXCEL Research Services, Inc. and BASF Agro Research., IR-4
1094370	2002, BAS 500 F: Magnitude of the residue on turnip greens., BASF Agro Research, IR-4 PR No.07594.00-BAR03, MRID: N/S, DACO: 7.4.1
1094371	2002, BAS 500 F: Magnitude of the Residue on Lettuce., BASF Agro Research, IR-4 PR No. 07640, MRID: N/S, DACO: 7.4.1
1094372	2003, BAS 500 F: Magnitude of the Residue on Cabbage, BASF Agro Research, IR-4 PR No. 07494, MRID: N/S, DACO: 7.4.1
1094373	2001, BASF Corporation, Residue Study Report for Determination of BAS 500 F and Its Metabolite BF 500-3, in the Mango Crop After Product Application-E 100 01 F, Laboratorio de Ecotoxicologia, CENA 003238/00, MRID: N/S, DACO: 7.4.1
1094374	2001, BASF Corporation, Residue Study Report for Determination of BAS 500 F and Its Metabolite BF 500-3, in the Mango Crop after Product Application-PE 100 001F., Laboratorio de Ecotoxicologia, CENA 003232/00, MRID: N/S, DACO: 7.4.1
1094375	2001, BASF Corporation, Residue Study report for Determination of BAS 500 F and its Metabolite BF 500-3, in the Mango Crop after product application - PE 100 01F., Laboratorio de Ecotoxicologia, CENA 00916/01, MRID: N/S, DACO: 7.4.1

1094376	2001, BASF Corporation, Residue Study Report for Determination of BAS 500 F and its Metabolite BF 500-3, in the Mango Crop after product application PE 100 01F., Laboratorio de Ecotoxicologia, CENA 04248/00, MRID: N/S, DACO: 7.4.1
1094377	2000, BASF Corporation, Residue Study Report of Strobilurins in the Papaya Crop., Laboratorio de Ecotoxicologia, CENA 02827/00, MRID: N/S, DACO: 7.4.1
1094378	2000, BASF Corporation, Residue Study Report of Strobilurins in the Papaya Crop., Laboratorio de Ecotoxicologia, CENA 02346/00, MRID: N/S, DACO: 7.4.1
1094379	2000, BASF Corporation, Residue Study Report of Strobilurins in the Paya Crop., Laboratorio de Ecotoxicologia, CENA 02342/0, MRID: N/S, DACO: 7.4.1
1094380	2000, BASF Corporation, Residue Study Report of Strobilurins in the Papaya Crop., Laboratorio de Ecotoxicologia, CENA 02341/00, MRID: N/S, DACO: 7.4.1
1094381	2002, Magnitude of BAS 510 F and BAS 500 F Residues in Mustard Greens- 2001 Field Study., BASF Agro Research, BASF Study Code 67080, MRID: N/S, DACO: 7.4.1
1094382	2002, Magnitude of BAS 500 02 F and BAS 510 02 Residues in citrus., BASF Agro Research, N/S, MRID: N/S, DACO: 7.4.1
1094383	2002, The Magnitude of BAS 500 F and BAS 510 F Residues in Pome Fruit., BASF Agro Research, BASF Study Number 66898, MRID: N/S, DACO: 7.4.1
1094384	2002, Magnitude of the Residue of BAS 500 02 F and BAS 510 UCF in Hops., BASF Agro Research, BASF study #:64550, MRID: N/S, DACO: 7.4.1
1094385	2002, The Magnitude of BAS 510 F and BAS 500 F Residues in Sunflower and Sunflower Processed Fractions., BASF Agro Research, BASF Study Number 66710, MRID: N/S, DACO: 7.4.1
1094386	2001, The Magnitude of BAS 510F and BAS 500 F Residues in Mint and Mint Processed Fractions., BASF Agro Research, BASF Study Number 66700, MRID: N/S, DACO: 7.4.1
1094387	2004, The Magnitude of BAS 500 F and BAS 510 F Residues in Almonds with a 25 Day PHI., BASF Agro Research, BASF Study Number 146467, MRID: N/S, DACO: 7.4.1
1324290	2005, Magnitude of BAS 510 F and BAS 500 F Residues in Mustard Greens - 2004-2005 Field Study, BASF Agro Research, 190528, DACO: 7.4.1
1094388	2002, Magnitude of the Residue of BAS 510 F in Peas and Beans Planted As Rotational Crops and of BAS 500 F in Peas and Beans when Applied as a Foliar Spray., BASF Agro Research, BASF Study Number 130001, MRID: N/S, DACO: 7.4.4
1094389	2002, The Magnitude of BAS 510 F and BAS 500 F Residues in Sunflower and Sunflower Processed Fractions., BASF Agro Research, BASF Study #: 66710, MRID: N/S, DACO: 7.4.5
1094390	2001, The Magnitude of BAS 510 F and BAS 500 F Residues in Mint and Mint Processed Fractions., BASF Agro Research, BASF Study #: 66700, MRID: N/S, DACO: 7.4.5
1094391	2002, Determination of the Residues of BAS 500 F and BAS 510 F in apples and processed products following treatment with BAS 516 01 F under Field conditions in Germany 2001., Institut Fresenius, IF-101/14264-00, MRID: N/S, DACO: 7.4.5
1094392	2005, The Magnitude of BAS 500 F and BAS 510 F Residues in Cotton Processed Fractions., BASF Agro Research, Study #: 198163, MRID: N/S, DACO: 7.4.5
1094393	2004, Data Evaluation Review- Pyraclostrobin. Summary of Analytical Chemistry and Residue Data., US EPA, Barcodes: D281042, MRID: N/S, DACO: 12.5.7

1094394	2004, Data Evaluation Review - Pyraclostrobin/BAS 500 F/ DACO 7.4.1 Crop Field Trial-Corn., US EPA, DP Barcode D290342/MRID No. 45645801, MRID: 45645801, DACO: 12.5.7
1094395	2004, Data Evaluation Review- Pyraclostrobin/DACO 7.4.5- Processed Food and Feed-Corn., US EPA, DP Barcode D290342/MRID No. 45645801, MRID: 45645801, DACO: 12.5.7
1094396	2004, Data Evaluation Review., US EPA, DP Barcode: D293684/MRID 45645802, MRID: 45645802, DACO: 12.5.7
1094397	2004, Data Evaluation Review, US EPA, DP Barcode D290342/MRID 45623408, MRID: 45623408, DACO: 12.5.7
1094398	2004, Data Evaluation Review, US EPA, DP Barcode: D290342/MRID No. 45623408, MRID: 45623408, DACO: 12.5.7
1094399	2004, Data Evaluation Review, US EPA, DP Barcode: D290342/MRID No. 45645803, MRID: 45645803, DACO: 12.5.7
1094400	2004, Data Evaluation Review, US EPA, DP Barcode: D281042/MRID NO. 45596211, MRID: 45596211, DACO: 12.5.7
1094401	2002, Determination of the Residues of BAS 500 F and BAS 510 F in Apples and Processed Products Following Treatment with BAS 516 01 F Under Field Conditions in Germany 2001., Institut Fresenius, IF-101/14264-00, MRID: N/S, DACO: 7.4.1
1094402	2003, BAS 516 Magnitude of the Residue on Spinach, BASF Corporation, BASF Study Number 08090, MRID: N/S, DACO: 7.4.1
1094403	2003, BAS 516 Magnitude of the Residue on Celery, BASF Corporation, Study #: 08091; IR-4 PR No. 08091, MRID: N/S, DACO: 7.4.1
1094404	2005, The Magnitude of BAS 500 F and BAS 510 F Residues in Cotton, BASF Agro Research, BASF Study #:198160, MRID: N/S, DACO: 7.4.1
1094405	2005, Magnitude of Pyraclostrobin and Boscalid Residues in Strawberries after Treatment with Pristine., BASF Agro Research, BASF Study #: 202513, MRID: N/S, DACO: 7.4.1
1094406	2002, Magnitude of BAS 510 F and BAS 500 F Residues in Mustard Greens- 2001 Field Study., BASF Agro Research, BASF Study #: 67080, MRID: N/S, DACO: 7.4.4
1094407	2004, Data Evaluation Review, US EPA, DP Barcodes D290369/MRID No. 45903602, MRID: 45903602, DACO: 12.5.7
1094408	2004, Data Evaluation Review, US EPA, DP Barcodes D290369/MRID No. 45623410, MRID: 45623410, DACO: 12.5.7
1094409	2004, Data Evaluation Review, US EPA, DP Barcodes D288459/MRID No. 45858801, MRID: 45858801, DACO: 12.5.7
1094410	2004, Data Evaluation Review, US EPA, DP Barcodes D288459/MRID No. 45858802, MRID: 45858802, DACO: 12.5.7
1094411	2004, Data Evaluation Review, US EPA, DP Barcodes D286732/MRID No. 45702901, MRID: 45702901, DACO: 12.5.7
1094412	2004, Data Evaluation Review, US EPA, DP Barcodes D298178/MRID No. 46109101, MRID: 46109101, DACO: 12.5.7
1094413	2004, Data Evaluation Review, US EPA, DP Barcodes D298178/MRID No. 46109102, MRID: 46109102, DACO: 12.5.7

1094414	2004, Data Evaluation Review, US EPA, DP Barcode D290342/MRID 45623407, MRID: 45623407, DACO: 12.5.7
1094415	2004, Data Evaluation Review, US EPA, DP Barcodes D287729/MRID No. 45832001, MRID: 45832001, DACO: 12.5.7
1094416	2004, Data Evaluation Review, US EPA, DP Barcodes D293088/MRID No. 46033901-46033904, MRID: 46033901-46033904, DACO: 12.5.7
1094417	2004, Data Evaluation Review, US EPA, DP Barcodes D295893/MRID No. 46084401-46084404, MRID: 46084401-46084404, DACO: 12.5.7
1094418	2004, Data Evaluation Review, US EPA, DP Barcodes D290343/MRID No. 45765401, MRID: 45765401, DACO: 12.5.7
1094419	2004, Data Evaluation Review, US EPA, DP Barcode D290342/MRID No. 45623407, MRID: 45623407, DACO: 12.5.7
1094420	2004, Data Evaluation Review, US EPA, DP Barcodes d290342/MRID No. 45623406, MRID: 45623406, DACO: 12.5.7
1094421	2004, Data Evaluation Review, US EPA, DP Barcodes D290369/MRID No. 45903601, MRID: 45903601, DACO: 12.5.7
1094422	2004, Data Evaluation Review, US EPA, DP Barcodes D290342/MRID No. 45645804, MRID: 45645804, DACO: 12.5.7

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