

Evaluation Report for Category B, Subcategory 5.1 Application

Application Number: 2012-1351
Application: New MRL for previously assessed TGAI
Product: Boscalid Technical Fungicide
Registration Number: 27494
Active ingredients (a.i.): Boscalid
PMRA Document Number : 2207190

Purpose of Application

Boscalid Technical Fungicide (Registration No. 27494) has been registered since October 24, 2003 and currently has a full registration. The purpose of this application was to establish MRLs boscalid on tropical fruits, bananas, citrus fruits, and coffee from the United States and South America.

Chemistry, Environmental and Value Assessment

Chemistry, environmental and value assessments were not required for this application.

Health Assessments

To support the establishment of import maximum residue limits (MRLs) on tropical fruits, bananas, citrus fruits, and coffee, residue data from field trials conducted in the United States, and South America were reviewed. In addition, processing studies were reviewed to determine the potential for concentration of residues of boscalid into citrus fruit commodities.

Maximum Residue Limit

Based on the maximum residues observed in bananas, citrus fruits, green coffee beans, and tropical fruits treated according to label directions, maximum residue limits (MRLs) to cover residues of boscalid will be proposed as shown in Table 1. Residues of boscalid in processed commodities not listed in Table 1 are covered under proposed MRLs.

| TABLE 1. Summary of Field Trial and Processing Data Used to Support the Maximum Residue Limit (MRL) | | | | | | | |
|---|--|------------|----------------|-----|--------------------------------|---------------------------|-----------------|
| Commodity | Application Method/Formulation / Total Application Rate (kg a.i./ha) | PHI (days) | Residues (ppm) | | Experimental Processing Factor | Currently Established MRL | Recommended MRL |
| | | | Min | Max | | | |
| | | | | | | | |

TABLE 1. Summary of Field Trial and Processing Data Used to Support the Maximum Residue Limit (MRL)

| Commodity | Application Method/Formulation | PHI (days) | Residues (ppm) | | Experimental Processing | Currently Established | Recommended MRL |
|------------------------------|--------------------------------|------------|----------------|-------|-------------------------|-----------------------|--------------------------------|
| Avocados* | Foliar/WDG/ 1.65-1.75 | 0 | 0.14 | 1.29 | Not applicable | None | 2.0 ppm |
| Bananas | Foliar/SC/ 0.59-0.60 | 0-1 | <0.05 | 0.42 | Not applicable | None | 0.6 ppm |
| Citrus fruits (CG10-Revised) | Foliar/WDG/ 1.32-1.37 | 0 | 0.115 | 1.51 | 59-fold (citrus oil) | None | 3.0 ppm 85 ppm (citrus oil) |
| Green coffee beans | Foliar/WDG/ 0.150 | 45 | <0.05 | <0.05 | Not applicable | None | 0.05 ppm |

*To be extended to canistels, mangoes, papayas, sapodillas, black sapotes, mamey sapotes, and star apples

Conclusion

Following the review of available data, MRLs of 2.0 ppm, 0.6 ppm, 3.0 ppm, 85 ppm, and 0.05 ppm are recommended to cover residues of boscalid in/on bananas, citrus fruits, citrus oil, coffee, and tropical fruits imported from the United States and South America. Residues of boscalid in imported crop commodities at the proposed MRL will not pose an unacceptable risk to any segment of the population.

References

PMRA Doc. No. Reference

1094382 2002, Magnitude of BAS 500 02 F and BAS 510 02 Residues in citrus, DACO: 7.4.1

1335114 2004, Magnitude of BAS 510 F Residues in Bananas for Import Tolerance, DACO: 7.4.1

1448714 2007, A bridging study to compare the magnitude of boscalid residues in bananas following applications with BAS 510 01 F and BAS 510 05 F, DACO: 7.4.1

2176936 2006, BAS 516 (BAS 500 + BAS 510): Magnitude of the Residue on Avocado, DACO: 7.4.1

2176937 2001, BAS 510 F Residue Study in Brazil's Coffee (Grain), DACO: 7.4.1

2176938 2001, BAS 510 F Residue Study in Brazil's Coffee (Bean), DACO: 7.4.1

2176939 2001, BAS 510 F Residue Study in Brazil's Coffee (Bean), DACO: 7.4.1

2176943 2001, BAS 510 F Residue Study in Brazil's Coffee (Grain), DACO: 7.4.2

2176944 2008, Magnitude of Boscalid Residues in Citrus Processed Fractions Following Applications of BAS 510 04, DACO: 7.4.5

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