



Evaluation Report for Category B, Subcategory B.2.3, 3.12 Application

Application Number: 2006-3353
Application: Application category B, subcategories: B 2.3 (identity of formulants); 3.12 (new site/host)
Product: Flint 50WG Fungicide
Registration Number: 27529
Active ingredients (a.i.): Trifloxystrobin at 50%
PMRA Document Number: 1504919

Background

Flint 50WG Fungicide (Registration No. 27529; 50% trifloxystrobin) is conditionally registered for the control of certain diseases in grapes, pome fruits group (apple, crabapple, loquat, mayhaw, pear, pear oriental and quince) and wheat (winter, spring, hard red, durum, Canada prairie, soft white).

Purpose of Application

The purpose of this application is the addition of the host cherries (sweet and tart) to the Flint 50WG label and the addition of alternate formulations to the product specification form.

Chemistry Assessment

Flint 50 WG Fungicide is a solid product containing the active ingredient Trifloxystrobin at a nominal concentration of 50%. This product has a bulk density of 0.597 g/cc, and a pH of 9.7 for a 1% aqueous dispersion. The chemistry requirements for Flint 50 WG Fungicide have been completed.

Health Assessments

The proposed alternate formulants are of similar component chemistry and purpose to those previously registered. Toxicity is unlikely to change with the use of the alternate formulants.

The requested use of the product, Flint 50 WG Fungicide, fits within the existing use patterns for mixing/loading and applying for trifloxystrobin. An increase in exposure for workers re-entering for post-application activities was evaluated and considered acceptable.

Field trial residue data submitted were reviewed for which cherries were treated with trifloystrobin at a seasonal application rate of 570 g a.i./ha. Samples of mature cherry fruit were harvested 1 day after the final application. It was concluded that the use expansion of trifloxystrobin to cherries will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Maximum Residue Limit Recommendation

Based on the submitted field trial residue data, a domestic maximum residue limit (MRL) to cover residues of trifloxystrobin and the metabolite CGA-321113 in/on sweet cherries and tart cherries will be established at 1 ppm.

Table 1. Summary of Field Trial Data Used to Establish Maximum Residue Limit (MRL)							
Commodity	Application Method/ Total Application Rate	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL for Cherries
			Min	Max			
sweet cherry	broadcast foliar concentrate spray/570.0	1	0.28	0.69	--	none	1
	broadcast foliar dilute spray/570.0	1	0.28	0.90			
tart cherry	broadcast foliar concentrate spray/570.0	1	0.32	0.62	--	none	
	broadcast foliar dilute spray/570.0	1	0.33	0.73			

Environmental Assessment

The rate of application of Flint 50 WG Fungicide on cherries was higher than the rates for other registered uses of this product. The increased rate of application did not result in an increase in risk to non-target organisms. Additional environmental data were not required to support this new use. Label statements to minimize environmental risk are adequate.

Value Assessment

Six trials each for leaf spot and powdery mildew were provided. Two out of six trials were conducted on tart cherries. Trials were conducted in neighbouring US states and in Summerland, British Columbia. Several rates were tested but consistent control of leaf spot and powdery mildew were demonstrated with 87.5-105 g ai/ha. Most leaf spot trials were conducted at high disease pressures and spray applications were made 5 to 7 times with an application interval of 10 days. The level of disease control obtained with the 105 g ai rate under these application conditions ranged from 82-93%. For powdery mildew, typically, four applications were made with a 14-day spray interval. Disease control in the range of 60-92% was achieved with the 105 g ai rate. Applications of Flint to sweet and tart cherries did not cause any phytotoxic reactions. Based on the evidence provided with this application, the claim that Flint controls leaf spot and powdery mildew in sweet and tart cherries, when applied at 87.5-105 g ai/ha, with an application interval of 7-14 days, is supported. The high rate and the shorter application interval of 7 days would be used under conditions of severe infestation.

Conclusion

The agency has completed an assessment of available information for Flint 50WG Fungicide and has found it sufficient to allow for conditional registration, with full registration being contingent upon fulfilling the following requirements:

Conversion of the registration of Trifloxystrobin Technical Fungicide (Registration No. 27526) and Flint 50WG Fungicide (Registration No. 27529) from conditional to full registration.

References

A. List of Studies/Information Submitted by Registrant

Chemistry Assessment

PMRA 1255795 1999-1220 APPL 3, 2006-3353 APPL 3, 2006-3315 APPL 3.2.1, 3.4.1, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.6, 3.5.7, 3.5.8, 3.5.9, TFY APPL 3

PMRA 1271088 2006-3353 APPL 3.1.1, 3.1.2, 3.2.1, 3.3.1, 3.3.2

Environment Assessment

None.

Health Assessment

PMRA No. 1242323 2005, FLINT 50 WG - Magnitude of the Residue in/on Cherries, Bayer CropScience, CANBYH010, DACO: 7.4.1

PMRA No. 1242324 2000, CGA-279202 and CGA-245704 - Magnitude of the Residues In or On Crop Group 12: Stone Fruit, Novartis Crop Protection, Novartis Number 149-98, DACO: 7.4.1,7.4.2

Value Assessment
PMRA No. 1242325 Flint 50 WG Fungicide (50% trifloxystrobin) for control of diseases in cherry. Received by PMRA on 05 May 2006. 51 pp.

B. Additional Information Considered

i) Published Information

Chemistry Assessment
None.

Environment Assessment
None.

Health Assessment
PMRA No. 652686 DACO: REG

Value Assessment
None.

ii) Unpublished Information Considered

Chemistry Assessment
None.

Environment Assessment
None.

Health Assessment
None.

Value Assessment
None.

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