Health Canada Santé Canada

Evaluation Report for Category B, Subcategories 3.1, 3.6, 3.10, 3.11, 3.12 Application

Application Number: 2024-0735
Application: Changes to Product Labels - Application Rate Increase or Decrease; Pre- Harvest/Slaughter With-Holding; Tank Mixes; New Pests; New Site or Host
Applicant: ISK Biosciences Corp.
Product: Property 300SC Fungicide
Registration Number: 32534
Active ingredient (a.i.): Pyriofenone
PMRA Document Number: 3683470

Purpose of Application

The purpose of this application was to amend the label of Property 300SC Fungicide to add the use on apples and Crop Subgroup 12-09A (Cherries) to control powdery mildew, and to add general tank mix statements as per the PMRA Guidance Document – Tank Mix Labelling.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The new use of Property 300SC Fungicide on apples and CSG 12-09A (Cherries) is not expected to result in potential occupational or bystander exposures over those from the registered uses of pyriofenone. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Residue data from field trials conducted in Canada and the United States were submitted to support the use of pyriofenone on apples and CSG 12-09A (Cherries). Pyriofenone was applied to apples, and sweet and tart cherries at a rate equivalent to the label use rate, and harvested according to label directions. In addition, a processing study in treated apples was reviewed to determine the potential for concentration of residues of pyriofenone into processed commodities.

Maximum Residue Limits

The recommendation for proposed maximum residue limits (MRLs) for pyriofenone was based upon the submitted field trial data, and the guidance provided in the OECD MRL Calculator. MRLs to cover residues of pyriofenone in/on crops and processed

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commodities are proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs).

TABLE 1. Summary of Field Trial and Processing Data Used to Support Maximum Residue Limits (MRLs)

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Proposed MRL (ppm)
			LAFT	HAFT			
Tart cherry	Foliar applications/ 434-445	3	0.129	0.775	n/a	n/a	Cherries (Crop Subgroup 12-09A): 1.5
Sweet cherry	Foliar applications/ 439-446	3-4	<0.01	0.763	n/a	n/a	
Apples	Foliar applications/ 431-452	13-15	0.019	0.185	Apple juice: 0.06X	n/a	Apples: 0.3

ppm = parts per million; LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial

Following the review of all available data, the MRLs proposed in Table 1 are recommended to cover residues of pyriofenone. Dietary risks from exposure to residues of pyriofenone in these crop commodities at the proposed MRLs were shown to be acceptable for the general population and all subpopulations, including infants, children, adults and seniors. Thus, the foods that contain residues as listed in Table 1 are considered safe to eat.

Environmental Assessment

After a scientific review of the available information, environmental risks from the requested uses of pyriofenone on apples and cherries are acceptable when used according to the label directions, which include the required risk mitigation measures.

Value Assessment

The results of eight efficacy trials were reviewed to support the addition of the claim of control of powdery mildew on apple and CSG 12-09A (Cherries) to the Property 300SC Fungicide label. The value information demonstrated an acceptable level of efficacy against powdery mildew on the subject crops when the product was applied according to the use directions. Registration of these disease claims will provide growers with a new mode of action for the management of powdery mildew on apples and an additional product option for use against powdery mildew on cherries. Tank mix statements were also updated in accordance with the requirements in the PMRA Guidance Document – Tank Mix Labelling (March 16, 2023).

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the addition of apples and Crop Subgroup 12-09A (Cherries) to the label of Property 300SC Fungicide.

References

PMRA Document Number	Reference
3558657	2024, Value Summary for Pyriofenone 300SC Fungicide (Reg. No. 32376), containing Pyriofenone, for Control of Powdery Mildew of Apple and Cherry Data Requirement, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.2(D), 10.2.3.3(D), 10.2.3.4(D), 10.2.4, 10.3, 10.3.1, 10.3.2, 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
3558658	2024, Value Summary for Pyriofenone 300SC Fungicide (Reg. No. 32376), containing Pyriofenone, for Control of Powdery Mildew of Apple and Cherry Data Requirement, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.2(D), 10.2.3.3(D), 10.2.3.4(D), 10.2.4, 10.3, 10.3.1, 10.3.2, 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
3558659	2024, Value Summary for Pyriofenone 300SC Fungicide (Reg. No. 32376), containing Pyriofenone, for Control of Powdery Mildew of Apple and Cherry Data Requirement, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.2(D), 10.2.3.3(D), 10.2.3.4(D), 10.2.4, 10.3, 10.3.1, 10.3.2, 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
3558664	2018, Freezer Storage Stability of IKF-309 in Lettuce, Tomato, and Tomato Processed Commodities (Puree, Paste, Juice, Wet Pomace and Dry Pomace), DACO: 7.3
3558662	2023, Magnitude of the Residue of Pyriofenone in or on Cherry Raw Agricultural Commodities Following Four Foliar Airblast Applications of Pyriofenone 300SC Fungicide (2022) , DACO: 7.2, 7.2.1, 7.3, 7.4, 7.4.1, 7.4.2
3558663	2023, Magnitude of the Residue of Pyriofenone in or on Apple Raw Agricultural and Processed Commodities Following Four Foliar Airblast Applications of Pyriofenone 300SC Fungicide (2022), DACO: 7.2, 7.2.1, 7.3, 7.4, 7.4.1, 7.4.2, 7.4.5

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