

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2015-2456
Application: Changes to Product Labels – New Site or Host
Product: Cyazofamid 400SC Fungicide
Registration Number: 27984
Active ingredients (a.i.): Cyazofamid
PMRA Document Number: 2654861

Purpose of Application

The purpose of this application was to add bulb vegetables, Crop Group 3-07, to the Cyazofamid 400SC Fungicide label.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

Cyazofamid 400SC Fungicide for use on bulb vegetables to control downy mildew (caused by *Peronospora destructor*) fits within the registered mixer/loader/applicator use pattern for cyazofamid. A postapplication risk assessment was conducted and no risks to re-entry workers were identified.

No health risks of concern for workers handling or re-entering treated sites are expected with respect to the amendment to Cyazofamid 400SC Fungicide provided the requested amendments are made to the label.

Residue data from field trials conducted in Canada and the United States were submitted to support the domestic use of Cyazofamid 400SC Fungicide on bulb vegetables. Cyazofamid 400SC Fungicide was applied to dry bulb and green onions at 480 g a.i./ha/season and harvested according to the label directions.

Maximum Residue Limit

The recommendation for the maximum residue limit (MRL) for cyazofamid was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). The MRL to cover residues of cyazofamid and the metabolite CCIM in/on bulb vegetables (Crop Group 3-07) is proposed as shown in Table 1.

TABLE 1. Summary of Field Trial and Processing Data Used to Support Maximum Residue Limit (MRL)							
Commodity	Application Method/ Total Application Rate (g ai/ha/season)	PHI (day)	Total Residues ¹ (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAFT			
Dry bulb onion	Broadcast spray/ 455-485	0	0.047	0.895	None	None	Crop Group 3-07 (Bulb Vegetables): 2.0
Green onion			0.490	1.101			

LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial

¹ Expressed in parent equivalents.

Following the review of all available data, an MRL, as proposed in Table 1, is recommended to cover total residues of cyazofamid. Residues in these crop commodities at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

No environmental data were submitted with this application, nor were any required. The application rates and method for this use expansion to bulb vegetables is equal to the registered uses for other field crops with this product. Environmental mitigation statements on the label are adequate for the use. No additional risks of concern to the environment are expected from the addition of bulb vegetables to the Cyazofamid 400SC Fungicide label.

Value Assessment

Three efficacy trials and a scientific rationale for extrapolation to the whole crop group were provided in support of the claim of control of downy mildew (*Peronospora destructor*) on bulb vegetables, Crop Group 3-07. In these trials, Cyazofamid 400SC Fungicide provided very good control of disease severity but poor control of disease incidence. This means that Cyazofamid 400SC Fungicide does not prevent the infection from occurring in the first place, but it prevents the lesions from growing and becoming severe. However, when Cyazofamid 400SC Fungicide was alternated with other fungicides, it provided acceptable control of downy mildew incidence. Based on the information provided, a claim of control of downy mildew caused by *P. destructor* on susceptible bulb vegetables is supported. Cyazofamid 400SC Fungicide will provide a new mode of action (fungicide group 21) for management of this disease on bulb vegetables.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the addition of bulb vegetables to the Cyazofamid 400SC Fungicide label.

References

PMRA Document Number	References
2541160	2015, Use Description/Scenario (Application and Post Application) for Cyazofamid 400SC Fungicide Addition of Bulb Vegetables: Crop Group 3-07, DACO: 5.2
2541161	2015, Magnitude of Residues of Cyazofamid on Dry Bulb and Green Onions - USA & Canada in 2014, DACO: 7.1,7.2.1,7.4.1,7.4.2
2541163	2015, Value Summary for Cyazofamid 400SC Fungicide, containing Cyazofamid, to add Control of Downy Mildew on Bulb Vegetables: Crop Group 3-07, DACO: 10.1

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