Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 3.11, 3.12 Application

Application Number: 2021-6200
Application: Changes to Product Labels – New Pests, New Site or Host
Product: A20259 Fungicide
Registration Number: 33020
Active ingredients (a.i.): Difenoconazole and Pydiflumetofen
PMRA Document Number : 3426959

Purpose of Application

The purpose of this application was to add two new sites (lowbush blueberry-sprout year, and Crop Group 2-leaves of root and tuber vegetables) and a new pest (blueberry leaf rust) to the product label of A20259 Fungicide.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The occupational exposure and risk from the addition of the use on lowbush blueberries (sprout year) and leaves of root and tuber vegetables to the A20259 Fungicide label was assessed. No risks of concern are expected from the new uses, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data for difenoconazole and pydiflumetofen in Crop Group 2 (leaves of root and tuber vegetables) were submitted or required to support the use expansion of these actives on the A20259 Fungicide label. Previously reviewed residue data from field trials conducted in/on sugar beet tops and radish leaves were reassessed in the framework of this application.

Maximum Residue Limits (MRLs)

The recommendation for the maximum residue limits (MRLs) for difenoconazole and pydiflumetofen was based upon the submitted field trial data, and the guidance provided in the OECD MRL Calculator. The recommended MRLs to cover residues of difenoconazole and pydiflumetofen in/on crops and processed commodities are shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the MRLs for the raw agricultural commodities (RACs).

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TABLE 1. Summary of Field Trial Data Used to Support the Maximum Residue Limits (MRLs)						
Commodity	**Application Method/ Total Application Rate (g a.i./ha)**	**PHI (days)**	**Residues (ppm)**		**Currently Established MRL (ppm)**	**Recommended MRL (ppm)**
			LAFT	**HAFT**		
Difenoconazole						
Sugar beet tops	Foliar/381-526	7	0.18	5.2	8.0	8.0 Leaves of root and tuber vegetables (Crop group 2, except garden beet tops[1], radish leaves[1], and turnip greens[1])
Radish leaves	Foliar/497-511	7	0.24	3.8	35	
Pydiflumetofen						
Sugar beet tops	Foliar/293-311	6-14	0.763	6.270	10	10 Leaves of root and tuber vegetables (Crop group 2, except garden beet tops[2], radish leaves[2], and turnip greens[2])
Radish leaves	Foliar/298-305	7	0.121	5.08	50	

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

[1]Garden beet tops, radish leaves and turnip greens are excluded from this MRL action given that an 8.0 ppm MRL is already established for garden beet tops and an MRL of 35 ppm is already established on radish leaves and turnip greens.

[2]Garden beet tops, radish leaves and turnip greens are excluded from this MRL action given that a 10 ppm MRL is already established for garden beet tops and an MRL of 50 ppm is already established on radish leaves and turnip greens.

Following the review of all available data, the MRLs in Table 1 are recommended to cover residues of difenoconazole and pydiflumetofen. Dietary risks from exposure to residues of difenoconazole and pydiflumetofen in these crops at the recommended 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

As the use patterns are within those of currently registered products, the registration of A20259 Fungicide will not pose any additional risks to the environment. When used according to label directions, the environmental risks are acceptable for A20259 Fungicide.

Value Assessment

The efficacy data from nine field trials in lowbush blueberry conducted in Atlantic Canada (2012-2020) were submitted in support of the claims on the A20259 Fungicide label. The efficacy data demonstrated the contributions of the two active ingredients, difenoconazole and pydiflumetofen, formulated in A20259 Fungicide to suppress blueberry leaf rust and septoria leaf spot in lowbush blueberry (sprout year) at the rate specified. Scientific rationales were provided in support of the addition of Crop Group 2 (Leaves of Root and Tuber Vegetables) claims on the A20259 Fungicide label.

The addition of these uses on lowbush blueberry (sprout year) and Crop Group 2 to the A20259 Fungicide label will provide Canadian growers with a new mode of action product to manage important labelled diseases.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it acceptable to support the addition of two new sites and a new pest to the product label of A20259 Fungicide.

References

PMRA Document Number	Title
3293207	2021, Value Summary for A20259 Fungicide in Lowbush Blueberry for control of Septoria leaf spot and Rust, in CG2 for control of Alternaria leaf blight, White mold and Powdery mildew, DACO: 10.1,10.2.2,10.3.1,10.3.2
3293208	2021, Efficacy Summary Table for A20259 Fungicide in Lowbush Blueberry for control of Septoria leaf spot and Rust, in CG2 for control of Alternaria leaf blight, White mold and Powdery mildew, DACO: 10.1,10.2.3.1
3293209	2020, Evaluate ADEPIDYN for Septoria Leaf Disease Control in Blueberry, DACO: 10.2.3.3
3293210	2018, Evaluate Fungicides for Control of Leaf Diseases in Lowbush Blueberry: FAD602A3-2017CA, DACO: 10.2.3.3
3293211	2015, Evaluate SYN545974 for control of leaf diseases (Septoria, rust, and Valdensinia) in lowbush blueberry., DACO: 10.2.3.3
3293212	2020, Evaluation of fungicides (ADEPIDYN) for control of septoria leaf spot in lowbush blueberry, DACO: 10.2.3.3
3293213	2012, Septoria Leaf Spot, Blueberry Rust and Valdensinia Leaf Spot Control in Wild Blueberry, DACO: 10.2.3.3
3293215	2021, A20259 Fungicide (PCP 33020) - Pydiflumetofen and Difenoconazole - Available Data to Support Uses on Various Crops, DACO: 6.1,6.2,6.3,6.4,7.1