

Evaluation Report for Category B, Subcategory 3.11, 3.12 Application

Application Number: 2019-3056

Application: Changes to Product Labels – New Pests, New Site or Host

Product: Merivon Fungicide

Registration Number: 33951

Active ingredients (a.i.): fluxapyroxad, pyraclostrobin

PMRA Document Number: 3168573

Purpose of Application

The purpose of this application was to register a new end-use product, Merivon Fungicide, for use to control or suppress certain diseases on a variety of field crops.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

Merivon Fungicide is of high acute oral toxicity, low acute dermal toxicity and slight acute inhalation toxicity in rats. It is minimally irritating to the eyes and mildly irritating to the skin in rabbits and is not a dermal sensitizer in guinea pigs.

The use of Merivon Fungicide on Crop Group 3-07 (Bulb Vegetables), Crop Group 9 (Cucurbit Vegetables), Crop Group 4 (Leafy Vegetables Except Brassica), Crop Group 11-09 (Pome Fruit), Crop Group 1B (Root Vegetables Except Sugar Beets), Crop Group 12-09 (Stone Fruit), blueberries, and strawberries, is not expected to result in potential occupational or bystander exposure over the registered use of fluxapyroxad or pyraclostrobin. The use on grapes is also not expected to result in potential occupational or bystander exposure over the registered use of fluxapyroxad. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label. The occupational exposure and risk from the addition of the use on grapes for pyraclostrobin was assessed. No health risks of concern are expected from the new use, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data for pyraclostrobin and fluxapyroxad in bulb vegetables and pome fruits were submitted to support the use expansion of this active on the Merivon Fungicide label from the old crop groups 3 and 11 to the new crop groups 3-07 and 11-09.



Previously reviewed residue data from field trials conducted in/on dry bulb onions, green onions, apples and pears were reassessed in the framework of this submission. In addition, a processing study in treated apples was also reassessed to determine the potential for concentration of residues of pyraclostrobin into processed commodities.

Maximum Residue Limits

Maximum residue limits (MRLs) are currently established for fluxapyroxad in/on crops and processed commodities. The recommendation for MRLs for pyraclostrobin was based upon the submitted field trial data, and the guidance provided in the OECD MRL Calculator. MRLs to cover residues of pyraclostrobin including the desmethoxy metabolite BF 500-3 in/on crops and processed 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 Limit(s) (MRLs)

Commodity	Application Method/ Total Application Rate (kg a.i./ha)	PHI (days)	Residues (ppm)				
			LAFT	HAFT	Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
Dry bulb onions	Foliar application/	6-7	<0.04	0.81	Not applicable	0.9 (Crop Group 3)	0.9 Extended to all commodities of Crop Group 3-07 ¹
Green onions	Foliar application/	6-7	0.70	0.71	Not applicable		
Apples	Foliar application/	0	0.10	0.80	Apple juice: 0.3x Apple sauce: 0.7x	1.5 (Crop Group 11)	Extended to all commodities of Crop Group 11-09 ²
Pears	Foliar application/	0	0.19	0.93			

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

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

¹ MRL of 0.9 ppm extended to additional crops included in the updated CG3-07: Fresh Chinese chive leaves, daylilies, Elegans hosta, fritillaria bulbs, fritillaria leaves, serpent garlic, kurrats, Lady's leeks, lilies, Beltsville bunching onions, fresh onions, macrostem onions, pearl onions, shallot leaves, and wild leeks.

² MRL of 1.5 ppm extended to additional crops included in the updated CG11-09: Azaroles, mayhaws, medlars, Chinese quinces, Japanese quinces, and tejocotes.

Environmental Assessment

The environmental risks for the uses of Merivon Fungicide are within the scope of those evaluated for fluxapyroxad and pyraclostrobin. No increased environmental risks are expected from the use expansion of Merivon Fungicide that cannot be mitigated through labelling.

Value Assessment

A review of submitted efficacy studies, rationales, and use history information demonstrated that Merivon Fungicide can be expected to manage certain diseases on a variety of field-grown crops. Merivon Fungicide will provide an alternative product with two modes of action for growers to use on blueberry, bulb vegetables, cucurbits, grape, leafy vegetables, pome fruits, root vegetables, stone fruits and strawberry to manage economically important diseases.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of Merivon Fungicide.

References

PMRA Document Number	References
3008246	2019, 10.1 VALUE ASSESSMENT- Merivon Fungicide, DACO: 10.1,10.2,10.3,10.4,10.5
3008247	2019, 10.1 VALUE ASSESSMENT- Merivon Fungicide, DACO: 10.1,10.2,10.3,10.4,10.5
3008258	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Almond, DACO: 10.2.3.1,10.3.1
3008259	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Blueberry, DACO: 10.2.3.1,10.3.1
3008260	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Bulb Vegetables, DACO: 10.2.3.1,10.3.1
3008261	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Cucurbit Vegetables, DACO: 10.2.3.1,10.3.1
3008262	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Grapes, DACO: 10.2.3.1,10.3.1
3008263	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Leafy Vegetables, DACO: 10.2.3.1,10.3.1
3008264	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Apples, DACO: 10.2.3.1,10.3.1
3008265	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Root vegetables, DACO: 10.2.3.1,10.3.1
3008266	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Stone fruit, DACO: 10.2.3.1,10.3.1
3008267	2019, DACO 10.2.3.1_10.3.1- Trial abstracts- Strawberry, DACO: 10.2.3.1,10.3.1
3008268	2019, DACO 10.2.4- Use Site History- Almond, DACO: 10.2.4
3008269	2019, DACO 10.2.4- Use Site History- Bulb Vegetables, DACO: 10.2.4
3008270	2019, DACO 10.2.4- Use Site History- Cucurbit Vegetables, DACO: 10.2.4
3008271	2019, DACO 10.2.4- Use Site History- Grapes, DACO: 10.2.4
3008272	2019, DACO 10.2.4- Use Site History- Leafy Vegetables, DACO: 10.2.4
3008273	2019, DACO 10.2.4- Use Site History- Pome fruits, DACO: 10.2.4
3008274	2019, DACO 10.2.4- Use Site History- Root Vegetables, DACO: 10.2.4
3008275	2019, DACO 10.2.4- Use Site History- Stone fruit, DACO: 10.2.4
3008276 3088151	2019, DACO 10.2.4- Use Site History- Strawberries, DACO: 10.2.4 2020, BASF response to PMRA Questions on Efficacy, DACO: 10.2.3.1,10.2.4

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