



Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2025-0029
Application: Changes to Product Labels-New Site or Host
Applicant: Valent Canada, Inc.
Product: S-2399 SC Master Fungicide
Registration Number: 34520
Active ingredient (a.i.): inpyrfluxam
PMRA Document Number : 3799634

Purpose of Application

The purpose of this application was to expand the use of the registered fungicide end-use product, S-2399 SC Master Fungicide by adding use on Crop Subgroup 4-13A: Leafy Greens to the label.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

SC-2399 SC Master Fungicide for use on Crop Subgroup 4-13A: Leafy Greens to control bottom rot represents an expansion of the use pattern for inpyrfluxam. Mixer/loader/applicator and postapplication quantitative risk assessments were conducted. No health risks of concern are expected from the new use, provided all label use directions, precautions and restrictions are adhered to.

Residue data from field trials conducted in the United States were submitted to support the use of S-2399 SC Master Fungicide (Reg. No. 34520) on Crop Subgroup 4-13A: Leafy Greens. Inpyrfluxam was applied to head lettuce (with and without wrapper), leaf lettuce and spinach, and harvested according to label directions.

Maximum Residue Limit

The recommendation for a proposed maximum residue limit (MRL) for inpyrfluxam was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). An MRL to cover residues of inpyrfluxam in/on Crop Subgroup 4-13A : Leafy greens 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 a.i./ha)	PHI (days)	Residues (ppm)		Experi- mental Processing Factor	Currently Established MRL (ppm)	Proposed MRL (ppm)
			LAFT	HAFT			
Head Lettuce (with wrapper)	196-206	6-8	<0.01	<0.593	Not applicable	Not applicable	5 (Crop subgroup 4-13A)
Head lettuce (without wrapper)			<0.01	<0.103			
Leaf lettuce			0.046	1.335			
Spinach			0.021	2.235			

ppm = parts per million; LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial; PHI = pre-harvest interval

Following the review of all available data, the MRL proposed in Table 1 is recommended to cover residues of inpyrfluxam in Crop Subgroup 4-13A: Leafy Greens. Dietary risks from exposure to residues of inpyrfluxam in these crop commodities at the proposed MRL 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

The application parameters of S-2339 SC Master Fungicide are within those currently registered for inpyrfluxam. Therefore, the risk is acceptable when S-2339 SC Master Fungicide is used in accordance with the label, which includes statements to mitigate risks to the environment.

Value Assessment

The results of head and leaf lettuce field efficacy trials demonstrated that S-2399 SC Master Fungicide suppresses or controls bottom rot on field-grown lettuce when applied at the labelled low or high application rate, respectively, and according to use directions. Given the broad host range of the causal pathogen and the relative importance of lettuce in terms of production scale compared to other leafy green crops, the evidence of efficacy was extrapolated to support the value of all other crops in Crop Subgroup 4-13A: Leafy Greens.

Bottom rot infection causes progressive decay of leaves near the soil surface that may spread to the rest of the lettuce head. Integrated disease management of bottom rot is confounded by the broad host range of the causal pathogen and the lack of resistant cultivars. S-2399 SC Master Fungicide would be the first conventional active ingredient available for use specifically against

bottom rot on Leafy Greens crops, including lettuce, spinach, Swiss chard, endive, radicchio and escarole.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it acceptable to support the addition of use on Crop Subgroup 4-13A: Leafy Greens to the label of S-2399 SC Master Fungicide.

References

PMRA

Document

Number

Reference

3673093	2024, Magnitude of the Residues of Inpyrfluxam in/on Leafy Vegetables after Two Broadcast Foliar Applications of Excalia Fungicide, DACO: 7.2.1,7.2.2,7.3,7.4.1,7.4.2
3673094	2024, Value Summary for S-2399 SC Master Fungicide, containing Inpyrfluxam, for Use on Crop subgroup 4-13A: Leafy Greens, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4
3673098	2024, APPENDIX 3: References for "Value Summary for S-2399 SC Master Fungicide, containing Inpyrfluxam, for Use on Crop subgroup 4-13A: Leafy Greens", DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4
3685346	2025, APPENDIX 1: Trial Reports for "Value Summary for S-2399 SC Master Fungicide, containing Inpyrfluxam, for Use on Crop subgroup 4-13A: Leafy Greens", DACO: 10.1
3685347	2025, APPENDIX 2: MS Excel Trial Data for "Value Summary for S-2399 SC Master Fungicide, containing Inpyrfluxam, for Use on Crop subgroup 4-13A: Leafy greens", DACO: 10.1

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