



Evaluation Report for Category B, Subcategory 2.6 Application

Application Number: 2022-1015
Application: New End-use Product: Product Chemistry - New combination of Technical Grade Active Ingredients
Product: Maxentis
Registration Number: 34963
Active ingredient(s) (a.i.): Azoxystrobin, Prothioconazole
PMRA Document Number: 3498817

Purpose of Application

The purpose of this application was to register a new fungicidal end-use product, Maxentis, to be applied preventatively to foliage and flowers for control or suppression of diseases on lowbush blueberries, barley, wheat, canola, peas, lentils, and soybeans.

Chemistry Assessment

Maxentis is formulated as an emulsifiable concentrate containing prothioconazole at a concentration of 90 g/L and azoxystrobin at a concentration of 120 g/L. This end-use product has a density of 1.07-1.10 g/mL and pH of 4.2-6.0. The required chemistry data for Maxentis have been provided, reviewed and found to be acceptable.

Health Assessments

Maxentis was of moderate acute toxicity via the oral and dermal routes of exposure. It was of low acute toxicity via the inhalation route of exposure. It was corrosive to the eye and skin. It is not a potential dermal sensitizer.

The use of Maxentis on lowbush blueberries, canola, peas, lentils, soybeans, barley, wheat, and oats is not expected to result in potential occupational or bystander exposure over the registered use of azoxystrobin and prothioconazole. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No new residue data for azoxystrobin and prothioconazole in wheat, barley, oats, canola, peas, lentils, soybeans, and lowbush blueberries were submitted to support the registration of Maxentis. Previously reviewed residue data from field trials conducted in/on wheat, barley, canola, dry peas, soybean, and blueberry were reassessed in the framework of this application. In addition, processing studies in treated wheat grain, canola, and soybean were also reassessed to determine the potential for concentration of residues of azoxystrobin and prothioconazole into processed commodities.

The anticipated residues of azoxystrobin and prothioconazole in both plant and animal matrices are expected to be covered by the currently established MRLs, when food and feed items derived from the petitioned raw agricultural commodities (RACs) are treated with Maxentis.

Exposure to residues of azoxystrobin and prothioconazole from the registration of Maxentis in wheat, barley, oats, canola, peas, lentils, and blueberries is not likely to result in any dietary risks for the general population and all subpopulations, including infants, children, adults, and seniors.

Environmental Assessment

The registration of Maxentis for the control or suppression of labelled diseases on lowbush blueberries, canola, peas, lentils, soybeans, barley, wheat, and oats does not pose any additional risk to the environment when used according to the label directions.

Value Assessment

A total of fifty-one trials were reviewed to support the value of registering a new co-formulation product, Maxentis. The weight of evidence from the submitted value information demonstrated that commercially acceptable levels of efficacy against economically important fungal diseases on lowbush blueberry, barley, wheat, canola, pea, lentil, and soybean can be expected from the labelled uses. Maxentis combines two distinct modes of action, which may contribute to the management of resistance development in fungal pathogens. This product will provide growers with an additional co-formulated conventional fungicide option to manage labelled diseases.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of the new end-use product Maxentis.

References

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3328338	2022, Manufacturing Process Prothioconazole 90 + Azoxystrobin 120 g/L, EC (ADM.03509.F.3.D), DACO: 3.2.2 CBI
3328340	2022, Product Chemistry Testing and Accelerated Storage Stability/Corrosion Characteristics Testing of ADM.03509.F.3.D, DACO: 3.4.1, 3.5.1, 3.5.10, 3.5.11, 3.5.14, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.8, 3.5.9
3328341	2022, Product Chemistry Testing and Accelerated Storage Stability/Corrosion Characteristics Testing of ADM.03509.F.3.B, DACO: 3.4.1, 3.5.1, 3.5.10, 3.5.11, 3.5.14, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.8, 3.5.9
3481962	2023, ADM.03509.F.3.B_Man_Process_Feb_2022, DACO: 3.2.1, 3.2.2, 3.2.3
3328289	2019, Prothioconazole Formulations in Wheat for Foliar Disease Control, DACO: 10.2.3.3(D)
3328291	2020, Prothioconazole Mixes in Lentils for Foliar Disease Control, DACO: 10.2.3.3(D)
3328292	2019, Prothioconazole Formulations in Barley for Foliar Disease Control, DACO: 10.2.3.3(D)
3328294	2021, Maxentis EC in Canola for Sclerotinia Control, DACO: 10.2.3.3(D)
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3328304	2018, Prothioconazole Formulations in Barley for Foliar Disease Control, DACO: 10.2.3.3(D)
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3328306	2019, Prothioconazole Formulations in Wheat for Foliar Disease Control, DACO: 10.2.3.3(D)
3328311	2019, Prothioconazole Mixes in Peas for Foliar Disease Control, DACO: 10.2.3.3(D)
3328312	2020, Prothioconazole Mixes in Peas for Foliar Disease Control, DACO: 10.2.3.3(D)
3328313	2021, Maxentis EC for Disease Control in Soybeans , DACO: 10.2.3.3(D)
3328314	2021, Maxentis EC for Disease Control in Oats - Morris , DACO: 10.2.3.3(D)
3328316	2018, Prothioconazole Mixes for Disease Control in Peas, DACO: 10.2.3.3(D)
3328317	2020, Prothioconazole Formulations in Wheat for Foliar Disease Control, DACO: 10.2.3.3(D)

PMRA Document Number	Reference
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3328319	2021, Maxentis EC for Disease Control in Soybeans , DACO: 10.2.3.3(D)
3328321	2018, Prothioconazole Mixes for Disease Control in Lentils., DACO: 10.2.3.3(D)
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3328324	2018, Prothioconazole Formulations in Winter Wheat for Foliar Disease Control, DACO: 10.2.3.3(D)
3328325	2019, Prothioconazole Formulations in Barley for Foliar Disease Control , DACO: 10.2.3.3(D)
3328328	2019, Prothioconazole Mixes in Peas for Foliar Disease Control, DACO: 10.2.3.3(D)
3328331	2020, Prothioconazole Formulations in Wheat for Foliar Disease Control, DACO: 10.2.3.3(D)
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3413001	2022, Summary of Value for Maxentis (Revised), DACO: 10.1,10.2.1,10.2.2,10.2.3.1,10.2.3.3,10.3.1,10.4,10.5.1,10.5.2,10.5.3,10.5.4
3439905	2023, 10.1_Value Summary Maxentis 23Feb2023, DACO: 10.1
3439906	2023, Maxentis Value Summary 23Feb23, DACO: 10.2.3.1
3328342	ADM.03509.F.3.B: Acute Oral Toxicity- Up-And-Down Procedure in Rats, 4.6.1, 2022
3328343	ADM.03509.F.3.D: Acute Toxicity Bridging Statement, 2022
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3328346	ADM.03509.F.3.B: Primary Eye Irritation in Rabbits, 4.6.4, 2022
3328347	ADM.03509.F.3.B: Epiderm TM Skin Irritation Test (SIT), 4.6.5, 2022
3328348	ADM.03509.F.3.B: Local Lymph Node Assay (LLNA) in Mice, 4.6.6, 2022
3843114	ADM.03509.F.3.D: Primary Eye Irritation in Rabbits, 4.6.4, 2022
3434056	Maxentis, containing azoxystrobin and prothioconazole, EP (Submission Number: 2022-1015): Skin Irritation Classification, 2023

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