



Evaluation Report for Category C, Subcategory 3.10, 3.9 Application

Application Number: 2013-2099
Application: New or Changes to Product Labels-Tank Mixes, New or Changes to Product Labels-Level of Control
Product: Maxim D
Registration Number: 30599
Active ingredients (a.i.): fludioxonil, difenoconazole
PMRA Document Number: 2321053

Background

Maxim D was first registered in Canada on August 1st, 2012. It is currently registered as a potato seed piece treatment for the control of black scurf, stem and stolon canker, silver scurf and fusarium dry rot at a rate range of 65-130 mL of product per 100 kg of seed. Maxim D is a combination product containing two active ingredients with different fungicidal modes of action; difenoconazole and fludioxonil. For complete details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the Maxim D label.

Purpose of Application

The purpose of this application is to modify the existing label claims against black scurf and stem/stolon canker of potato to allow for a lower rate of application (i.e. 65 mL/100kg seed rather than 130 mL/100 kg seed).

Minor label modifications are also the subject of this application. These include the addition of a recommended tank mix product and a more detailed warning regarding treatment of low quality seed piece material.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since application rates for the new use are equal or lower to previously registered rates.

Value Assessment

The value of the proposed rate amendment lies in Maxim D's expected efficacy in managing black scurf, and stem and stolon canker at a level that meets production requirements with a substantial reduction in the amount of product required for seed piece treatment. Evidence for Maxim D efficacy is derived through extrapolation from an equivalent claim that was supported with trial data and use history for the product Cruiser Maxx Extreme Potato. This product delivers the same amount of the active ingredient, fludioxonil, as Maxim D does when applied according to label directions for these diseases. Based on this information, the weight of evidence shows that control of stem and stolon canker can be expected when Maxim D is applied at a lower rate and disease pressure is low to moderate. Use history information also indicates that at the lower rate of fludioxonil, only suppression of black scurf is to be expected. However, unlike stem and stolon canker, the mostly superficial nature of this disease means that complete control of black scurf is not necessary to prevent economic yield loss. For instances where higher levels of black scurf are indeed required, recommendations for use of a higher rate have been added to the label.

Adding Actara 240SC Insecticide as a recommended partner will provide growers with an additional option when selecting an appropriate tank mix to control Colorado potato beetle, aphids and potato leafhopper. Because product composition of Actara 240SC Insecticide is equivalent to that of the currently labeled tank mix partner for the same use, Cruiser Potato Seed Piece Treatment, additional value information was not deemed necessary to justify the addition of this new recommended tank mix partner.

The third label modification consists of a reworded warning statement related to the treatment of poor quality potato seed-piece material. With more detailed information and a recommendation to perform germination tests on a subset of treated seed pieces, this revised wording has no direct impact on Maxim D's use pattern. Therefore, additional value information was not required to justify the value of this label change.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Maxim D to add a lower rate of application for the management of black scurf, and stem and stolon canker on potato with the same use pattern as those currently registered for treatment of potato seed pieces. Adequate value information was also provided to amend current label wording to include an additional tank mix partner and to provide more detailed warning related to the treatment of low quality potato seed pieces.

References

PMRA# 2292869 2013. 0.8 - Correspondence - MAXIM D - Add R. solani at low rate. 3pp. DACO 0.8.

PMRA# 2292876 2013. Maxim D: Efficacy Rationale for Control of Stem and Stolon Canker with Low Rate. 13 pp. DACO 10.2.3.1.

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