

Evaluation Report for Category B, Subcategory 3.4,3.12 Application

Application Number: 2020-1811
Application: Changes to product label; new site or host and application method
Product: Minecto Pro
Registration Number: 33023
Active ingredients (a.i.): Abamectin and cyantraniliprole
PMRA Document Number: 3767119

Purpose of Application

The purpose of this application was to amend the label of Minecto Pro to add claims of control of two spotted spider mite, cabbage looper, armyworm, beet armyworm, fall armyworm, cutworms, European corn borer and soybean aphid on legume vegetables (crop group 6) and to add the use of aerial applications to control previously labelled potato pests.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicological assessment was not required for this application.

The use of Minecto Pro applied using ground equipment to legume vegetables (including soybean) is not expected to result in occupational or bystander exposures greater than those from the registered uses of cyantraniliprole and abamectin. The aerial application of Minecto Pro on potatoes is not expected to result in occupational or bystander exposures greater than those from the registered uses of cyantraniliprole. A quantitative risk assessment for abamectin identified no risks of concern. Therefore, no health risks of concern are expected when workers wear the required personal protective equipment and follow all label directions, precautions and restrictions.

No new residue data for abamectin or cyantraniliprole were submitted to support the aerial application of Minecto Pro, a coformulation of these two active ingredients, in/on potatoes. Cyantraniliprole is already registered for foliar and aerial application to potatoes. Abamectin is registered on potatoes based on crop field trials conducted using spray volumes of 20 to 50L/ha. Therefore, the field trial data on file support the aerial application of Minecto Pro in/on potatoes.

Previously reviewed residue data from field trials conducted with cyantraniliprole in/on legume vegetables (crop group 6) were reassessed in the framework of this application. Abamectin residue data from field trials conducted in the United States were submitted to support the domestic use of Minecto Pro in/on crop group 6. Minecto Pro was applied to

beans and peas (edible-podded, succulent shelled, and dry) and to dry soybeans, corresponding to exaggerated rates for abamectin and cyantraniliprole. Samples were harvested according to label directions or at shorter intervals, which were supported by residue decline data. In addition, a processing study in treated dry soybeans was reviewed to determine the potential for concentration of residues of abamectin into processed commodities.

Maximum Residue Limits

Residues of both cyantraniliprole and abamectin in legume vegetables will be covered by the established MRLs.

Environmental Assessment

The application rate, pattern, and method for the use of Minecto Pro on legumes falls within what is registered for abamectin. The new application method for the registered use on potatoes requires aerial spray buffer zones to mitigate risk to non-target organisms. The risk is acceptable when Minecto Pro is used in accordance with the label, which includes precautionary statements and directions to mitigate risks to the environment.

Value Assessment

The applicant submitted the results of efficacy trials, rationales and use history information to support the label expansion of Minecto Pro to include aerial applications on potatoes and to include claims of control of pests on legume vegetables (crop group 6). Based on the review of the submitted value information, Minecto Pro can be expected to provide adequate pest control when applied via aerial application equipment to potatoes and can be expected to provide control of two spotted spider mite, cabbage looper, armyworm, beet armyworm, fall armyworm, cutworms, European corn borer and soybean aphid on legume vegetables. The addition of these claims will provide growers with an additional application method to treat potatoes as well as a single co-formulated product to control pests on legume vegetables.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to amend the registration of Minecto Pro.

References

PMRA

Document

Number	Reference
2172938	2012, Agricultural Handler Exposure Scenario Monograph: Closed Cockpit Aerial Application of Liquid Sprays, DACO: 5.3,5.4
2572745	2015, Agricultural Handler Exposure Scenario Monograph: Open Pour Mixing and Loading of Liquid Formulations, DACO: 5.3,5.4
3120259	2020, Occupational Exposure Risk Assessment for Minecto Pro, DACO: 5.2,5.3,5.6
3120281	2020, Residue Data Summary for Legume Vegetables CG 6 Rationale for Aerial Application of Potato, DACO: 7.1
3120291	2013, Abamectin 500 FS (A14006B) and Abamectin SC (A15368D) - Magnitude of the Residues in or on Soybean Resulting from Seed Treatment Followed by Foliar Applications - USA, 2011, DACO: 7.4.1,7.4.2,7.4.5,7.4.6
3120292	2017, Abamectin FS (A14006B) and Abamectin SC (A15368D) - Magnitude of the Residues in or on Representative Crops of Crop Group 6 Legume Vegetables (except soybean) and Crop Group 7A Foliage of Legume Vegetables (except soybean) USA 2013, DACO: 7.4.1,7.4.2,7.4.5,7.4.6
1239237	1987, Confined Accumulation Studies on Rotational Crops with 14C-Avermectin B1A (ENC-1), DACO: 8.3.2.3
3120252	2020, Minecto Pro Value Summary, DACO: 10.1,10.2.1,10.2.2,10.2.3.4,10.3.2
3120255	1997, A21390F Minecto Pro Efficacy Potato Aphids US 2017, DACO: 10.2.3.1,10.2.3.3,10.3.1,10.3.2
3120256	2017, A21390F Minecto Pro Efficacy Trial Tomato US 2017, DACO: 10.2.3.1,10.2.3.3,10.3.1,10.3.2
3120257	1997, Abamectin Efficacy Trial - Bell Pepper California US 1997, DACO: 10.2.3.1,10.2.3.3,10.3.1,10.3.2
3120258	2017, A21390F Minecto Pro Efficacy and Crop Tolerance Report Potato-Aphids US 2017, DACO: 10.2.3.1,10.2.3.3,10.3.1,10.3.2

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