



New Pests

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2021-3855
Application: New or Changes to Product Labels-New Pests
Product: Vayantis Seed Treatment
Registration Number: 34138
Active ingredients (a.i.): Picarbutrazox, 400 g/L
PMRA Document Number: 3307665

Background

Vayantis Seed Treatment was first registered on July 29th, 2021. Vayantis Seed Treatment contains picarbutrazox, a fungicide that controls certain seed and seedling diseases caused by some oomycete fungi (also known as water moulds) on soybean and corn (field, sweet, pop, seed) when applied as a seed treatment at active ingredient rates of 1 to 5 g ai/100 kg seed. For specific details of uses, application rates, methods, precautions, restrictions and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to add a claim to control seed rot, pre-emergence and post-emergence damping off (*Phytophthora sojae*) on soybean for Vayantis Seed Treatment applied at 6.25 mL product/100 kg seed (2.5 g ai/100 kg seed).

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 the use pattern remained unchanged.

Value Assessment

Value information was submitted as field trial reports and a growth chamber study where Vayantis Seed Treatment was applied to soybean seeds at 6.25 mL/100 kg seed. When seeds with or without race-specific resistance to the targeted disease were planted in moderately or highly infested plots, the proposed rate of Vayantis Seed Treatment increased plant count 87-329% compared to untreated plots. The performance of Vayantis Seed Treatment on plant count was similar to that of commercial standard products containing different active ingredients that are registered to control the targeted disease in Canada. Early season soybean diseases such as seed rot, pre-emergence and post-emergence damping off can cause a pronounced reduction in soybean plant stand, and therefore yield, particularly in wet areas of a field or in wet years.

Registration of Vayantis Seed Treatment will provide growers with an additional, effective tool for use against seed rot, pre-emergence and post-emergence damping off on soybean that will also serve to delay the development of fungicide resistance in the pathogen population when used in a fungicide alternation programme.

Conclusion

The PMRA has conducted an assessment of the subject application and has determined that the submitted information is adequate to support a claim to control seed rot, pre-emergence and post-emergence damping off (*Phytophthora sojae*) on soybean when applied as a pre-plant seed treatment to varieties with or without race-specific *P. sojae* resistance at 6.25 mL product/100 kg seed.

References

PMRA #	Reference
3257820	2017, Evaluate Picarbutrazox for Phytophthora control in soybeans - Controlled environment, DACO: 10.2.3.3
3257822	2015, Evaluate Picarbutrazox for control of phytophthora in soybeans, DACO: 10.2.3.3
3257823	2019, Evaluate Picarbutrazox for Phytophthora control in soybeans - field study, DACO: 10.2.3.3
3273954	2021, Summary of Products in Trials CAOQ0T8022015, CAOQZT1412019, USNK0T4052018, and CAOQZT1162017 to Support Submission Number 2021-3855, DACO: 10.7.2
3294938	2021, Efficacy Summary Table for VAYANTIS Seed Treatment in Soybean for control of <i>Phytophthora sojae</i> (updated), DACO: 10.2.3.1
3294939	2017, Evaluate A20597B and mixture concepts for phytophthora control in soybean US - inoculated trials, DACO: 10.2.3.3
3294940	2014, 2014 Disease Nursery Screen, DACO: 10.2.3.3
3302080	2021, Efficacy Summary Table for VAYANTIS Seed Treatment in Soybean for control of <i>Phytophthora sojae</i> (updated Dec 14, 2021), DACO: 10.2.3.1

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