

Evaluation Report for Category B, Subcategory 3.1, 3.11, 3.12 Application

Application Number: 2021-1384
Application: Changes to Product Labels - Application Rate Increase or Decrease; New Pests; New Site or Host
Product: SALTRO
Registration Number: 33643
Active ingredient (a.i.): Pydiflumetofen
PMRA Document Number : 3355167

Purpose of Application

The purpose of this application was to amend the registration of the end-use product SALTRO to add the use on corn as a seed treatment to control seed rot and damping-off caused by soil-borne *Fusarium* spp., and to suppress corn lesion nematode (*Pratylenchus* spp.).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

An assessment was performed for commercial treaters and planters that may be exposed to pydiflumetofen when treating and handling corn seed. The expansion of use should not result in risks of concern. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data for pydiflumetofen in corn (field, pop, and sweet) were submitted to support the use expansion on the SALTRO label. Previously reviewed residue data from field trials conducted in/on corn (field, pop, and sweet) were reassessed in the framework of the *Guidance on Streamlined Residue Chemistry Data Requirements for Seed Treatment Uses and Potato Seed-Piece Applications* (SPN2018-01). In addition, processing studies in treated field and sweet corn were reassessed to determine the potential for concentration of residues of pydiflumetofen into processed commodities. The addition of the seed treatment use of pydiflumetofen on corn (field, pop, and sweet) does not constitute a health risk of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The risk to pollinators, birds, and small wild mammals was assessed for the use of SALTRO to treat corn seeds. The risk to pollinators and birds from the corn seed treatment use is acceptable. The risk to small wild mammals is acceptable since a label hazard statement

and the requirement to clean up spilled or exposed seeds are present on the SALTRO label. Overall, the risk to the environment from the use of SALTRO is acceptable when the product is used according to the label directions.

Value Assessment

Value information in the form of field and controlled environment studies demonstrated that SALTRO applied to seed of corn at labelled rates of 10-50 mL/100 kg seed reduced seed rot and damping-off caused by soil-borne *Fusarium* spp., with the highest rate having the greatest benefit in fields with a history of high disease pressure. In multiple field trials and a greenhouse study, SALTRO applied at 320 or 400 mL/100 kg corn seed reduced the number of corn lesion nematodes and resulted in greater plant survival, ear weight and grain yield. The addition of these claims to the SALTRO label will provide corn growers with an additional product to manage soil-borne *Fusarium* spp. and corn lesion nematodes.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the addition of corn seed treatment to the product label of SALTRO.

References

PMRA Document Number	Reference
3216307	2020, Evaluate Adepidyn as a <i>Fusarium graminearum</i> solution in CA corn 2020, DACO: 10.2.3.3
3216308	2020, Evaluate Adepidyn as a <i>Fusarium</i> spp. solution in CA corn 2020, DACO: 10.2.3.3
3216309	2020, Evaluate Adepidyn as a <i>Fusarium</i> spp. solution in CA corn 2020, DACO: 10.2.3.3
3216310	2020, Evaluate Adepidyn as a <i>Fusarium</i> spp. solution in CA corn 2020, DACO: 10.2.3.3
3216311	2020, Evaluate Adepidyn as a <i>Fusarium</i> spp. solution in CA corn 2020, DACO: 10.2.3.3
3216312	2020, Evaluate Potential Nematode solutions in Canada Corn (Arva Locations), DACO: 10.2.3.3
3216313	2020, Evaluate novel nematode solution in US corn 2020 [United States], DACO: 10.2.3.3
3216314	2020, Evaluate novel nematode solution in US corn 2020 [United States], DACO: 10.2.3.3
3216315	2019, Seed Treatment - Insecticide - Sales Support - 2019 US - UAH003, DACO: 10.2.3.3
3216316	2019, Evaluate NMG-787 nematode solution in US corn 2019, DACO: 10.2.3.3

PMRA Document Number	Reference
3216317	2019, Nematicide - Development Support - 2019 US Evaluate competitor seed treatment nematicide against Saltro for crop safety and efficacy in corn against Lesion nematode., DACO: 10.2.3.3
3216318	2019, Evaluate NMG-787 nematode solution in US corn 2019, DACO: 10.2.3.3

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