

Evaluation Report for Category B, Subcategory 3.11, 3.12 Application

Application Number: 2015-2624
Application: B.11 - New Pests
B. 12 - New Host
Product: Phostrol Fungicide
Registration Number: 30449
Active ingredients (a.i.): Mono- and dibasic sodium, potassium, and ammonium phosphites
PMRA Document Number : 2639412

Purpose of Application

The purpose of this application was to add a claim of suppression against the root rot complex in field peas to the end-use product Phostrol Fungicide.

Chemistry Assessment

Chemistry assessment was not required for this application.

Health Assessments

Phostrol Fungicide is of low acute oral toxicity in rats ($LD_{50} > 5000$ mg/kg bw), low acute dermal toxicity in rats ($LD_{50} > 5000$ mg/kg bw), and low acute inhalation toxicity in rats ($LC_{50} > 2.06$ mg/L). Phostrol Fungicide is mildly irritating to the skin, minimally irritating to the eyes, and is not a dermal sensitizer.

The label statements for Phostrol Fungicide and the end-use product's low toxicity are considered adequate to address any potential risk due to exposure of the mixer, loader, applicator, and bystanders.

Dietary risk to humans is considered negligible based on the intended use, long history of use, and low toxicity of the end-use product. The available literature suggests that there is no toxicological concern from ingestion of the end-use product residues.

It is anticipated that the use of Phostrol Fungicide in Canada on field peas will not pose a risk to any segment of the population, including infants, children, adults and seniors, when the foods are subjected to the normal process of washing, peeling and cooking for human consumption.

Although this end-use product will be used for agricultural crops outdoors, it is not to be applied near or directly to water. No risk due to exposure from drinking water is anticipated.

Maximum Residue Limit

Based on the available information, requirement of a maximum residue limit for the use on field peas is not necessary for mono- and dibasic sodium, potassium, and ammonium phosphites.

Environmental Assessment

As the use of Phostrol Fungicide on field peas is well within the currently registered use pattern, the exposure of non-target organisms in the environment to Phostrol Fungicide is not expected to increase. The use of Phostrol Fungicide on field peas is not expected to pose risks of concern to non-target organisms in the environment.

Value Assessment

Value information on the use for Phostrol Fungicide on field peas was provided along with efficacy data from two field trials. Based on value considerations that include efficacy data showing Phostrol Fungicide suppressing early season root rot in peas grown in sites with a documented presence of all subject pathogens, the value of the use was deemed to have been supported. Registration of this claim will give Canadian field pea producers a novel mode of action from a non-conventional product that is compatible with current management practices to reduce the impact of early season root disease.

Conclusion

The PMRA has reviewed the information provided in support of this submission. Based on the results of that review, the claim of suppression against the root rot complex in field peas is acceptable.

References

PMRA# 2544367 2015, Value Summary for Phostrol Fungicide Label Expansion for Suppression of Root Rot Complex in Field Peas, DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.2(D),10.2.3.3(D),10.2.3.4(C),10.2.4,10.3,10.3.1,10.3.3,10.4,10.5,10.5.1,10.5.2,10.5.3,10.5.4

2544365	Cook,, W. and L. Wright. 2015. Use Description/Scenario (Mixer/Loader/Applicator and Post-application) for Phostrol Fungicide. DACO 5.2
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