

Evaluation Report for Category B, Subcategory 3.11,12 Application

Application Number: 2020-1079
Application: Changes to Product Labels-New Pests and Host
Product: LifeGard WG
Registration Number: 32526
Active ingredient (a.i.): *Bacillus mycooides* Isolate J
PMRA Document Number: 3171991

Purpose of Application

The purpose of this application was to expand the label of LifeGard WG to include claims to partially suppress white mould (*Sclerotinia sclerotiorum*) and grey mould (*Botrytis cinerea*) on cannabis and hemp grown indoors and outdoors.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

There was no change in the formulation of Lifeguard WG; therefore, no additional toxicological information is required for the end-use product or for the active ingredient, *Bacillus mycooides* isolate J.

The technical grade active ingredient is of low toxicity and not infective or pathogenic to rats via the oral, pulmonary and intravenous routes. Lifeguard WG is not toxic via the oral or dermal routes and is not irritating to skin of rabbits, but is a severe eye irritant. Lifeguard WG is considered a potential sensitizer and contains the priority allergen sulphites. The other formulants in Lifeguard WG do not pose any significant concerns with respect to toxicity or irritation.

The methods of application on cannabis and hemp grown indoors or outdoors are consistent with what is currently on the label for other greenhouse food and field crops. The potential for dietary and other consumer, and occupational exposure from the foliar applications of Lifeguard WG to cannabis and hemp is not expected to increase, and therefore, no additional exposure information is required.

The available information is sufficient to support the foliar applications of Lifeguard WG on cannabis and hemp grown indoors or as field crops, from a health perspective.

Environmental Assessment

There was no change in the formulation of Lifegard WG; therefore, no additional environmental toxicological information is required for the end-use product or for the active ingredient, *Bacillus mycooides* isolate J.

The methods of application on cannabis and hemp grown indoors or outdoors are consistent with what is currently on the label for other greenhouse and field crops. The use on cannabis and hemp is not expected to pose an additional risk to the environment.

The available information is sufficient to support foliar applications of Lifegard WG on commercial cannabis and hemp grown indoors or outdoors, from an environmental perspective.

Value Assessment

The results of two hemp field efficacy trials conducted in Ontario, a tomato greenhouse efficacy trial conducted in Montana, USA and an extrapolation based on a registered claim against white mould on potato were submitted to support the expansion of the LifeGard WG label to include claims against white mould and grey mould on cannabis and hemp. This information, as well as the limited availability of alternative products for management of these cannabis and hemp diseases, supported claims to partially suppress both diseases on cannabis and hemp grown in the field and indoors.

LifeGard WG is a non-conventional, biological fungicide product that activates the plant immune system in advance of infection by plant pathogens. LifeGard WG, therefore, will be useful in both conventional and organic cannabis and hemp production. Furthermore, as no products are registered in Canada against white mould on cannabis and hemp and only three products are registered against grey mould on cannabis and hemp, registration of this product will increase the spectrum of products available to growers for cannabis and hemp disease management.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to amend the label of LifeGard WG for use on cannabis and hemp.

References

PMRA

Document

Number	Reference
3103794	2019, Evaluate efficacy of Lifeguard and Double Nickel for the control of hemp diseases.-white mold, DACO: M10.2.2
3103795	2019, Evaluate efficacy of Lifeguard and Double Nickel for the control of hemp diseases. Botrytis, DACO: M10.2.2
3103796	2019, Evaluate Efficacy of LifeGard WG and Double Nickel LC for Control of Powdery Mildew on Caneberries for Registration of LifeGard WG in OR, DACO: M10.2.2
3103797	2006, Evaluation of multiple biological control organisms for control of grey mold of tomato, DACO: M10.2.2
3103799	2006, Assessment of fungicides for management of powdery mildew on lettuce, DACO: M10.2.2
3103800	2006, Efficacy of fungicides for management of powdery mildew on muskmelon, DACO: M10.2.2
3114113	2020, Exposure Assessment for Lifeguard WG, containing <i>Bacillus mycooides</i> isolate J, for use on Field and Greenhouse (Indoor) Cannabis and Hemp (<i>Cannabis sativa</i>).

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