

Evaluation Report for Category B, Subcategory 3.11, 3.12 Application

Application Number: 2019-5614
Application: Changes to Product Labels-New Pests, and New Site
Product: LifeGard WG
Registration Number: 32526
Active ingredients (a.i.): *Bacillus mycooides* isolate J
PMRA Document Number: 3102818

Purpose of Application

The purpose of this application was to amend the LifeGard WG label to add use for powdery mildew and downy mildew on grape.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

There were no changes in the formulation of LifeGard WG and the human health and safety database for this end-use product is considered complete, no additional toxicological information is required for this application.

The use for downy mildew (*Plasmopara viticola*) and powdery mildew (*Uncinula necator*) on grapes is consistent with application rates and methods previously registered on the LifeGard WG label. The potential for dietary and occupational exposure from the new use of LifeGard WG is not expected to increase, and therefore, no additional exposure information is required. The available information is sufficient to support the proposed new uses of LifeGard WG.

Maximum Residue Limit (MRL)

As part of the assessment process prior to the registration of a pesticide, Health Canada must determine that the consumption of the maximum amount of residues that are expected to remain on food products when a pesticide is used according to label directions will not be a concern to human health. This maximum amount of residues expected is then legally specified as an MRL under the *Pest Control Products Act* (PCPA) for the purposes of adulteration provision of the *Food and Drugs Act* (FDA). Health Canada specifies science-based MRLs to ensure the food Canadians eat is safe.

PMRA has not specified a maximum residue level (MRL) for *Bacillus mycooides* isolate J.

The available information is sufficient to support the use of LifeGard WG for downy mildew (*Plasmopara viticola*) and powdery mildew (*Uncinula necator*) on grapes from a health perspective.

Environmental Assessment

There were no changes in the formulation of LifeGard WG. Since the environmental toxicology database for LifeGard WG is considered complete, no additional environmental toxicological information is required for this application.

The use for downy mildew (*Plasmopara viticola*) and powdery mildew (*Uncinula necator*) on grapes is consistent with application rates and methods previously registered on the Lifegard WG product label. The ENVIRONMENTAL PRECAUTIONS and DIRECTION FOR USE sections have been updated according to current policy regarding pollinator hazard and precautions statements.

Provided that the label instructions are followed, the proposed new use of Lifegard WG do not present an increased potential for non-target organism exposure, and therefore, can be supported from an environmental perspective.

Value Assessment

Data generated in 7 field trials demonstrated that LifeGard WG applied prior to disease onset at the labelled concentration of 0.33 g product/L can be expected to result in control of downy mildew and suppression of powdery mildew in grape.

LifeGard WG represents an alternative non-conventional product and mode of action to others that are registered to manage these same economically important diseases in grape.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support use of the LifeGard WG on grapes for control of downy mildew and suppression of powdery mildew.

References

PMRA

Document

Number	Reference
3038108	2016, Evaluation of Fungicide Programs for Control of Grapevine Powdery Mildew, 2016, DACO: M10.2.2
3038109	2015, Evaluation of Fungicide Programs for Control of Grapevine Downy Mildew, 2015, DACO: M10.2.2
3038114	2014, Evaluation of fungicide programs for control of grapevine downy mildew, 2014., DACO: M10.2.2
3038115	2018, Evaluation of fungicides for control of disease in Niagara grapes, 2018., DACO: M10.2.2
3038116	2018, Final Report: Control of grape powdery mildew with synthetic, biological and organic fungicides: 2018 field trials, DACO: M10.2.2
3038117	2017, Evaluation of fungicides for control of foliar and fruit diseases of juice grapes, 2017., DACO: M10.2.2
3038119	2016, Evaluation of fungicides for control of disease in Niagara grapes, 2016., DACO: M10.2.2

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