

Evaluation Report for Category B, Subcategories 3.4, 3.10, 3.11, 3.12 Application

Application Number: 2023-4020
Application: Changes to Product Label – Application Method, Tank Mixes, New Pests, New Site or Host
Applicant: 2022 Environmental Science CA Inc.
Product: Esplanade SC Herbicide
Registration Number: 31333
Active ingredient (a.i.): Indaziflam
PMRA Document Number : 3726568

Purpose of Application

The purpose of this application was to amend the registration of Esplanade SC Herbicide as follows: add a new site (Crop Group 17: Grass forage, fodder, and hay, including in pastures and rangeland); add a control claim for a new weed, North Africa grass (*Ventenata dubia*); add new tank mix partners; and add a new method of application (aerial application for use with Crop Group 17).

Health Assessments

The amendment to the registration of Esplanade SC Herbicide represents an expansion of the use pattern for indaziflam. Updated quantitative mixer/loader/applicator and postapplication risk assessments were conducted. No health risks of concern were identified, provided that workers wear the appropriate personal protective equipment and follow all label directions.

New residue data for indaziflam were submitted to support the use expansion of this active ingredient on the Esplanade SC Herbicide label. Residue data from confined and rotational crop field trial studies were assessed in the context of this application and were found to be adequate to support the use expansion for indaziflam. Previously reviewed residue data from field trials conducted in/on Crop Group 17 (Grass forage, fodder, and hay) were reassessed in the framework of this application and were found to be adequate to cover the use pattern of Esplanade SC Herbicide.

Based on this assessment, residues are not expected to be greater than those from the currently registered uses and will be covered by the established maximum residue limits (MRLs). Consequently, dietary exposure to residues of indaziflam is not expected to increase with the amendment of the Esplanade SC Herbicide label and will not pose health risks of concern to any segment of the population, including infants, children, adults, and seniors.

A toxicological assessment was not required for this application.

Environmental Assessment

After a scientific review of the available information, the PMRA has concluded that the environmental risks associated with the additional uses of Esplanade SC Herbicide are acceptable when used according to the label directions.

Value Assessment

Value information was submitted in the form of product performance field studies and use history from the United States to support the addition of use sites relevant to Crop Group 17, a control claim for North Africa grass (*Ventenata dubia*), and the addition of aerial application for use with Crop Group 17.

The submitted value information demonstrated that a pre- or post-emergence application of Esplanade SC Herbicide at the registered rate provided residual control of *Ventenata dubia* one to three years after application and the timing of the applications (spring, summer, fall, or winter) did not influence the performance of indaziflam. Value information also demonstrated that the growth of desirable perennial grass species either increased or was not affected by an application of indaziflam, whether applied solo or in combination with glyphosate. Performance data also demonstrated that lower water volumes that are used in aerial applications would not be expected to substantially impact the performance of indaziflam in terms of efficacy and perennial grass tolerance. Therefore, the amendments to the Esplanade SC Herbicide label are supported.

The value of using Esplanade SC Herbicide in pastures and rangeland include:

- Consistent, multi-year control of invasive annual grasses with seed bank depletion.
- Restoration of perennial native vegetation when invasive annual grasses are controlled because perennial plants respond quickly to the additional water and nutrients that become available, resulting in increased perennial biomass and forage production.
- Renewed wildlife habitat through the removal of invasive winter annuals, which allows for the recolonization of perennial grasses, forbs, and shrubs that are beneficial to pollinators, birds, and other wildlife.
- Reduced wildfire risk resulting from a decrease in fine-fuels with the removal of invasive annual grasses.
- Cost-to-benefit increases (i.e., a greater return on investment), as fewer applications are needed to control invasive annual grasses, saving time and labour by achieving multi-year control with a single application.

Chemistry Assessment

A chemistry assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to amend the registration of Esplanade SC Herbicide.

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