

Evaluation Report for Category B, Subcategory 3.3 Application

Application Number: 2018-0601
Application: Changes to Product Labels - Application Number or Frequency
Product: Infinity Herbicide
Registration Number: 28738
Active ingredient (a.i.): Bromoxynil, Pyrasulfotole
PMRA Document Number: 2905659

Purpose of Application

The purpose of this application was to amend the product label of Infinity Herbicide, a post-emergent herbicide used for the control of broadleaf weeds, to include the option to use both a fall and a spring application in winter wheat grown in Eastern Canada.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The addition of a second application of the registered end-use product Infinity Herbicide to winter wheat (in Eastern Canada only) for fall and spring treatments does not fit within the previously registered use pattern for the active ingredients bromoxynil and pyrasulfotole. Updated quantitative risk assessments were conducted for mixer/loader/applicator and post-application worker exposure. No health risks of concern were identified provided that the recommended label amendments are made, and that workers wear the appropriate personal protective equipment and follow all label directions.

No new residue data for the active ingredients bromoxynil and pyrasulfotole were submitted to support the increase in the number of applications of Infinity Herbicide on winter wheat in Eastern Canada from one to two, thereby doubling the total annual application rate. Previously reviewed residue data from field trials conducted with bromoxynil and pyrasulfotole in/on wheat were re-assessed in the framework of this petition.

Residues in/on crop food commodities will be covered by the established maximum residue limits (MRLs) for bromoxynil and pyrasulfotole. Consequently, the dietary exposure to residues of these two active ingredients is not expected to increase over the registered uses and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

A toxicology assessment was not required for this application.

Environmental Assessment

Additional risk from the environment viewpoint were not identified with the addition of a second application for winter wheat (spring and fall instead of spring or fall) in eastern Canada only, to the label of Infinity Herbicide.

Value Assessment

An amendment to the Infinity Herbicide label to include the option of both a fall and a spring application in winter wheat in Eastern Canada will offer growers additional flexibility in managing fall and spring weed populations that can aggressively compete with this crop.

Scientific rationales plus host and rotational crop tolerance data were provided in support of the amendment. As Infinity Herbicide is already registered for either a spring or fall application, an efficacy assessment was not required. Application of Infinity Herbicide (or the component active ingredients) at exaggerated rates (up to 3.3×) in the fall and/or the spring demonstrated that winter wheat can be expected to exhibit an adequate margin of crop safety when applied twice as per label directions. Furthermore, application of Infinity Herbicide (or the component active ingredients) at exaggerated rates (up to 2.7×) demonstrated that labelled rotational crops would not be expected to be negatively impacted when planted at labelled time intervals after the second of two applications at the labelled rate. The value information collectively supports the option to use both a fall and a spring application in winter wheat in Eastern Canada.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Infinity Herbicide, and has found the information sufficient to amend the product label.

References

PMRA Document Number	Reference
1188998	2006, AE 0317309 02 SE06 herbicide (pyrasulfotole) for broadleaf weed control in cereals and timothy - Canadian value package, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.2.3.3(B), 10.3, 10.3.2(A), 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3.
1189072	2006, AE 0317309 03 EC23 herbicide (pyrasulfotole + bromoxynil) for broadleaf weed control in cereals and timothy - Canadian value package, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.2.3.3(B), 10.3, 10.3.2(A), 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3.
1816578	2009, Infinity herbicide (pyrasulfotole + bromoxynil) for broadleaf weed control in tame oats, DACO: 10.1, 10.3, 10.3.3.
2850894	2018, Value Assessment of Infinity Herbicide - Data to support a fall and spring application in winter wheat for improved weed control -, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.2.3.3(B), 10.3, 10.3.2(A), 10.3.3, 10.5.1, 10.5.2.
2850896	2018, Compilation of Trial Reports: Value Assessment of Infinity Herbicide - Data to support a fall and spring application in winter wheat for improved weed control -, DACO: 10.2.3.3(B), 10.3, 10.3.2(A).

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