

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2018-0362
Application: New or Changes to Product Labels - New Site or Host
Product: Fierce Herbicide
Registration Number: 31117
Active ingredients (a.i.): Flumioxazin, Pyroxasulfone
PMRA Document Number: 2862562

Purpose of Application

The purpose of this application was to amend the registration of Fierce Herbicide to include chickpeas, field peas and lentils as host crops and as rotational crops.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The once-per-year use of Fierce Herbicide for preplant, pre-emergence, spring or fall burndown treatment for chickpeas, field peas and lentils (small red and large green varieties) fits within the registered use of flumioxazin and pyroxasulfone. Therefore, exposures of workers (mixer, loader, applicator, and postapplication re-entry) and bystanders to flumioxazin and pyroxasulfone are not a health concern, provided workers wear the required personal protective equipment, and follow the directions and precautions on the Fierce Herbicide label.

No new residue data for flumioxazin or pyroxasulfone in chickpeas, field peas or lentils were submitted to support the use expansion on the Fierce Herbicide label. Previously reviewed residue data from field trials conducted in/on chickpeas, field peas and lentils were reassessed in the framework of this petition. No health risks of concern have been identified for any segment of the population including infants, children, adults and seniors.

Environmental Assessment

The addition of chickpeas, field peas and lentils (small-seeded red and large-seeded green varieties) to the label for Fierce Herbicide (active ingredients: 33.5% flumioxazin and 42.5% pyroxasulfone) at a maximum rate of 315 g/ha (106 g flumioxazin/ha and 134 g pyroxasulfone/ha) does not pose any additional risk to the environment. Additional label amendments pertaining to buffer zones and environmental precautions were required.

Value Assessment

The expansion of the use pattern of Fierce Herbicide to include chickpea, field pea, and lentil as host crops as well as rotational crops would provide Canadian growers greater flexibility to employ Fierce Herbicide for early season weed management.

Value information submitted for review included data from field research trials conducted in the Canadian Prairies over multiple years. The information demonstrated that chickpea, field pea, and lentil as host crops as well as rotational crops can be expected to have an adequate margin of crop tolerance to Fierce Herbicide when applied in accordance with the label instructions. This conclusion is corroborated with the precedent registrations of products containing solo flumioxazin and pyroxasulfone active ingredients for use on chickpea, field pea, and lentil.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the addition of chickpea, field pea and lentil to the Fierce Herbicide label as host crops and rotational crops.

References

PMRA Document Number

Reference

2843509

2018, Appendix 1: Trial reports for "Value Summary for Fierce Herbicide - addition of chickpea, field pea, and lentil use patterns", DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.3.1, 10.3.2, 10.5.1, 10.5.2, 10.5.3, and 10.5.4.

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