

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2011-0990
Application: B.3.12 – Add new site
Product: Flumioxazin 51 WDG Herbicide
Registration Number: 29235
Active ingredients (a.i.): Flumioxazin
PMRA Document Number: 2210706

Purpose of Application

The purpose of this application was to add field peas, the claim of control of kochia and the pre-plant fall application timing to the Flumioxazin 51 WDG Herbicide label

Health Assessments

The use of Flumioxazin 51 WDG Herbicide on field peas is considered acceptable when workers follow label directions and precautions, including the listed restrictions and personal protective equipment.

Residue data for flumioxazin in field peas were submitted to support the use expansion of flumioxazin as a pre-plant fall application to labelled weeds, 6 months prior to seeding field peas the following spring, to the Flumioxazin 51 WDG Herbicide label.

The submitted residue data for flumioxazin were for field peas treated at approximately 1X the label rate with postemergent foliar applications to the crop including an adjuvant in the spray application mixtures, with mature field pea seeds harvested at preharvest intervals (PHIs) of 4-6 days. The majority of the field pea seed samples contained no quantifiable residues. However, the use pattern in the submitted study is not representative of the accepted use. Therefore, these data were considered as supplemental only. Results from previously reviewed confined rotational studies in which flumioxazin was applied to soil at a rate equivalent to 1X the label rate with representative crops planted at a 30-day plant back interval demonstrated that no quantifiable residues of flumioxazin were observed in any crop matrix. Therefore, based on the results of both the field trials and the confined crop rotational studies, a maximum residue limit (MRL) of 0.02 ppm, equivalent to the limit of quantitation (LOQ) of the enforcement method for flumioxazin, is proposed.

Based on the dietary burden and residue data, finite residues of flumioxazin are not expected in the meat, meat by-products and milk when livestock are fed crops treated according to the approved use directions.

Following the review of the available data, an MRL of 0.02 ppm for dry field peas is recommended to cover residues of flumioxazin. Residues of flumioxazin in dry field peas at the established MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The use rates in field peas are within the registered range for Flumioxazin 51WDG Herbicide and are the same as those for soybean and dry beans, which are all in the legume family. The buffer zones are adequate for the protection of terrestrial and aquatic habitats. Therefore, application in accordance with the approved label will not result in unacceptable environmental risks.

Value Assessment

The submitted efficacy data support a claim of control for kochia at 71 g ai/ha and 105 g ai/ha in coarse- and medium textured soils, respectively, with less than 5% organic matter. Crop injury, assessed as percent overall injury, was either slight or not detectable following fall pre-plant application of Flumioxazin 51WDG Herbicide to field peas, when applied in accordance with the label. The lack of injury was corroborated by yield data.

Conclusion

The PMRA has reviewed the information provided and has determined the addition of field peas, the claim of control of kochia and the pre-plant fall application are acceptable to appear on the Flumioxazin 51 WDG Herbicide label.

References

- 2017593 2011, DACO 10.2.3.3-1 Pulse Plus TSR 2010 Document - TOUCHDOWN Pulse - a component of Pulse Plus Herbicide DACO: 10.2.3.3,10.3.2
- 2022196 2010, Magnitude of the Residue of Flumioxazin on Dry Peas, DACO: 7.4.1
- 2022197 2010, Magnitude of the Residue of Flumioxazin on Dry Peas, DACO: 7.4.1

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