



Evaluation Report for Category B, Subcategory 3.1, 3.2, 3.10, 3.11, 3.12 Application

Application Number: 2013-4769
Application: Changes to Product Label; new hosts, new pests, new tank mixes, changes to application rate and changes to application timing.
Product: Mesotrione 50WG Herbicide
Registration Number: 29655
Active ingredients (a.i.): Mesotrione
PMRA Document Number: 2469448

Purpose of Application

Mesotrione 50WG Herbicide is a wettable granule formulation containing 50% mesotrione. Prior to this application the product was registered for post-emergence use on Optimum GAT Corn for the control of annual broadleaf weeds at a rate of 200 g/ha (100 g a.i./ha). The purpose of this application was to amend the product label to add new crops (field, seed and sweet corn), amend the application timing to include pre-emergence, increase the application rate, add tank mix partners, and add several new weeds.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The occupational exposure and risks from the proposed new uses of Mesotrione 50WG Herbicide were assessed. For the mixer/loader/applicator exposure scenario, a new quantitative risk assessment was conducted for the wettable granule formulation at the higher application rate and no risks of concern were identified. For postapplication re-entry activities, the workers' exposure is not expected to exceed that of the registered use pattern for mesotrione. Changes to the tank-mix partners are not expected to increase worker exposure when compared to the registered use pattern and bystander exposure should be negligible when compared to occupational exposure. The new uses of Mesotrione 50WG Herbicide are not expected to be of health concern when label directions are followed.

No new residue data were submitted with this application and data on file were used to support the use of Mesotrione 50WG Herbicide. The new use of Mesotrione 50WG Herbicide is not expected to increase the magnitude of mesotrione residues in/on corn (field, sweet and seed). Therefore, the dietary exposure to mesotrione is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

No environmental concerns were identified as the use of Mesotrione 50WG Herbicide on corn is the same as that registered on the Callisto 480 SC (registration number 27833) label.

Value Assessment

The requested amendments to Mesotrione 50WG were acceptable from a value perspective for the following reasons;

- the agronomic equivalency of Mesotrione 50WG to Callisto 480 SC was previously established based on data from field research trials.
- the amendments to Mesotrione 50WG all appear on the Callisto 480 SC label.
- Mesotrione 50WG has been registered in the US (registration number 100-1349) for pre- and post-emergence weed control in field corn, field corn seed production, field corn grown for silage, yellow popcorn, and sweet corn since 2010.

Conclusion

Following review of the application the label amendments were approved to add new crops (field, seed and sweet corn), amend the application timing to include pre-emergence, increase the application rate, add tank mix partners, and add several new weeds.

References

PMRA

Document

Number	Reference
1811732	2009, Mesotrione 50WG- Trial Summary Reports, DACO: 10.2.3.3 and 10.3.2.

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