

Evaluation Report for Category B, Subcategory 3.2 Application

Application Number: 2018-6041
Application: Changes to Product Labels-Application Timing
Product: Zidua SC
Registration Number: 32542
Active ingredient (a.i.): Pyroxasulfone
PMRA Document Number: 3054498

Purpose of Application

The purpose of this application was to amend the label of Zidua SC to add a post-emergence application to the soybean use pattern; post-harvest application timing to the registered crops; and a claim of control of annual bluegrass when applied as a post-harvest treatment.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

No new residue data for pyroxasulfone in soybeans were submitted to support the amendments to the label of Zidua SC. Previously reviewed residue data from field trials 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 as a result of the label amendments.

The occupational exposure and risk from the addition of post-emergent application for soybeans and post-harvest fall application timing for all labelled crops to the Zidua SC label was assessed. No risks of concern are expected from the new uses, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

Exposure of non-target organisms to Zidua SC will remain unchanged with the amendments to the label. Thus, no further environmental risk assessment was required. The existing label statements are sufficient for risk mitigation.

Value Assessment

Registration of Zidua SC as an early post-emergence treatment in soybean and a post-harvest treatment provides farmers with a residual weed suppression option at these application timings. It also introduces a new herbicide mode of action (Group 15) for these application timings.

Value information submitted consisted of data from efficacy and dedicated crop tolerance trials, a scientific rationale, and use history information of the same product registered in the United States.

In the efficacy trials, it was demonstrated that a fall application of Zidua SC at 120-240 mL/ha can be expected to provide acceptable control of annual bluegrass. In the crop tolerance trials, it was demonstrated that soybean at the cotyledon to three trifoliolate leaf stage can be expected to have adequate margins of crop tolerance to Zidua SC applied at up to 240 mL/ha or in tank mix with glyphosate herbicide at up to 1800 g a.e./ha.

Other label amendments and changes were also reviewed and considered acceptable.

Furthermore, the label amendments requested under this application are similar to registered label statements on the Zidua SC label in the United States.

Based on the weight of evidence, the amendments to the use pattern of Zidua SC are considered to have acceptable value.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support amendment of the label of Zidua SC to add a post-emergence application to the soybean use pattern; post-harvest application timing to the registered crops; and a claim of control of annual bluegrass when applied as a post-harvest treatment.

References

PMRA

Document

Number

Reference

2935430	2018, Efficacy trial reports - post harvest, DACO: 10.2.3.3(B).
2935433	2018, Phytotoxicity trial reports - soybean, DACO: 10.3.2(A).

ISSN: 1911-8082

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