

Evaluation Report for Category B, Subcategory 3.1, 3.5, 3.10, 3.12 Application

Application Number: 2020-5073
Application: Changes to Product Labels – Application Rate Increase; Rotational Crops\Plantback Interval; Tank Mixes; New Site or Host
Product: AUTHORITY SUPREME Herbicide
Registration Number: 32562
Active ingredients (a.i.): Pyroxasulfone and Sulfentrazone
PMRA Document Number : 3299142

Purpose of Application

The purpose of this application was to amend the product label AUTHORITY SUPREME Herbicide to add the use on sunflowers.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The use of AUTHORITY SUPREME Herbicide on sunflowers to control/suppress labelled weeds represents an expansion of the use pattern for pyroxasulfone and sulfentrazone. No health risks of concern were identified provided that workers wear the appropriate personal protective equipment and follow all label directions.

No new residue data for pyroxasulfone or sulfentrazone in sunflowers were submitted to support the use expansion of these actives on the AUTHORITY SUPREME label. Pyroxasulfone and sulfentrazone are currently registered for use on sunflowers at higher or similar rates, respectively. Previously reviewed residue data on sunflowers for both actives are adequate to support the current application. The current maximum residue limits (MRLs) for pyroxasulfone and sulfentrazone are adequate to cover residues resulting from the use on sunflowers.

Environmental Assessment

After a scientific review of the available information, it was concluded that the environmental risks associated with the use of AUTHORITY SUPREME Herbicide are acceptable when used according to the label directions.

Value Assessment

The expansion of the use pattern of AUTHORITY SUPREME Herbicide to include sunflower as

a host crop as well as a rescue crop would provide Canadian growers more flexibility to employ AUTHORITY SUPREME Herbicide for early season weed management, especially in western Canada.

Value information submitted for review included data from replicated field trials, which were conducted in the Canadian Prairies and the US between 2013 and 2019. The information collectively demonstrated that sunflower as a host crop as well as a rescue crop can be expected to have an adequate margin of crop tolerance to AUTHORITY SUPREME Herbicide when applied in accordance with the label instructions.

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 the use on sunflowers to the AUTHORITY SUPREME Herbicide label.

References

PMRA Document Number	Reference
3169203	2020, Authority Supreme Herbicide (PCP 32562): Value summary - sunflower, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.3.1, 10.3.2(A), 10.3.3, 10.4, 10.5.1, 10.5.2, 10.5.3, 10.5.4, and 10.5.5
3169204	2020, Pyroxasulfone + sulfentrazone for residual grassy and broadleaf weed control in Clearfield sunflowers, soybeans and niger in Western Canada, DACO: 10.2.3.3
3169205	2020, Authority Supreme Herbicide (PCP 32562): Field trials 2 - sunflower, DACO: 10.2.3.3

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