

Evaluation Report for Category B, Subcategory 3.1, 3.9 Application

Application Number: 2017-1449
Application: B.3.1: New Application Rate
B.3.9: New Level of Control
Product: Conquer Herbicide
Registration Number: 32528
Active ingredients (a.i.): Bromoxynil + Pyraflufen-ethyl
PMRA Document Number : 2909011

Purpose of Application

The purpose of this application was to include a claim of control of volunteer canola beyond the 4-leaf stage at a higher application rate of 600 mL/ha.

Chemistry Assessment

Chemistry assessment was not required for this application.

Health Assessments

New food residue data were not submitted for pyraflufen-ethyl or bromoxynil to support the increase in product application rate from 300 to 600 mL/ha (equivalent to 9 g a.i./ha of pyraflufen-ethyl and 280 g a.i./ha of bromoxynil) on the label of the registered end-use product Conquer Herbicide (PCP# 32528). Hence, previously reviewed residue data were considered in the context of this application

The established MRLs for pyraflufen-ethyl and bromoxynil on crop and livestock edible commodities are adequate to cover the expected residues resulting from the use of Conquer Herbicide. The dietary exposure assessments on file are also considered acceptable to estimate the dietary exposure to residues of these active ingredients and no health risks of concern have been identified for any segment of the population including infants, children, adults and seniors.

Environmental Assessment

The new use is within the currently registered use pattern of the active ingredients Pyraflufen-ethyl and Bromoxynil, and therefore, no additional risk is expected from the use of Conquer Herbicide for this use. The label includes the required environmental precautions and hazards statements, including the buffer zones information, which adequately mitigates risks to the environment.

Value Assessment

Conquer Herbicide as a pre-emergent treatment provides early weed

elimination to prevent competition for nutrients and moisture with host crops. Inclusion of the higher application rate of 600 mL/ha for control of volunteer canola beyond the 3-leaf stage will provide farmers a broader application window to manage this problematic weed.

Value information included data from replicated field trials conducted in the Canadian Prairies demonstrated that the application of Conquer Herbicide at 600 mL/ha provided acceptable control of volunteer canola beyond the 3-leaf stage, i.e., the 4- to 6-leaf stage.

Furthermore, application of pyraflufen-ethyl containing product at 9.0 g a.i./ha is registered for control of higher populations of listed weeds, including volunteer canola, up to the 4-leaf stage.

Crop tolerance is not of concern since (1) all host crops on the Conquer Herbicide label are also registered for products containing each of pyraflufen-ethyl (e.g., Pyro Herbicide; Reg. No. 31258) and bromoxynil (e.g., Koril 235 Herbicide; Reg. No. 25341) and (2) application rates of Conquer Herbicide are equal or less than those that would be delivered with the products containing each of pyraflufen-ethyl and bromoxynil alone.

Conclusion

The PMRA has reviewed the information to support the claim of control of volunteer canola beyond the 4-leaf stage at a higher application rate of 600 mL/ha. Based on the results of this review, the claim of control of volunteer canola beyond the 4-leaf stage at a higher application rate of 600 mL/ha is acceptable for registration.

References

PMRA # 2743196 2017, Conquer Herbicide, Part10, 21 March, 2017, DACO: 10.2.1, 10.2.2, 10.2.3, and 10.2.3.3(B).

PMRA # 2754097 2017, Waiver rationale, Conquer Herbicide, 11 APR, 2017, DACO: 10.3.2.

1913109	2009, Agricultural Handler Exposure Scenario Monograph: Open Cab Groundboom Application of Liquid Sprays, Report Number AHE1004, DACO 5.3, 5.4.
2572745	2015, Agricultural Handler Exposure Scenario Monograph: Open Pour Mixing and Loading of Liquid Formulations, Report Number AHE1003-1, DACO 5.3, 5.4.

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