



Addition of New Pests Evaluation Report for Category C, Subcategory C.3.11 Application

Application Number: 2006-7747
Application: Category C, Subcategory C.3.11 (addition of new pests)
Product: Flufenacet 60% WDG Herbicide
Registration Number: 28293
Active ingredients (a.i.): flufenacet
PMRA Document Number: 1434237

Background

Flufenacet 60% WDG Herbicide has been registered since May 11, 2006. This product is registered for pre-emergence or early post-emergence use in field corn in Eastern Canada. The tank-mix of Flufenacet + Option 2.25 OD (Reg. No. 27424) + liquid nitrogen fertilizer (28% UAN) + Aatrex Nine-0 (Reg. No. 14842) or Aatrex Liquid 480 (Reg. No. 18450) provides control of several annual grass and broadleaf weeds. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to amend the registration of Flufenacet 60% WDG Herbicide to include two additional weed claims, Eastern black nightshade and fall panicum, as controlled by the Flufenacet + Option 2.25 OD + Liquid nitrogen fertilizer + Aatrex Nine-0 or Aatrex Liquid 480 tank-mix.

Chemistry Assessment

A chemistry assessment was not required as there was no change to product chemistry.

Health Assessments

Health assessments were not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

Environmental Assessment

An environmental assessment was not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

Value Assessment

Data were submitted from 14 field trials conducted in 2004, 2005 and 2006 in Ontario and Quebec. The performance of the Flufenacet + Option + 28% UAN + Aatrex tank-mix was directly compared to that of the registered Elim EP (Reg. No. 23518) + Dual II Magnum (Reg. No. 25729) + Banvel II (Reg. No. 23957) tank-mix.

Control values for Eastern black nightshade and fall panicum when treated with the Flufenacet + Option + 28% UAN + Aatrex tank-mix were acceptable and similar to that of the Elim EP + Dual II Magnum + Banvel II tank-mix. Mean Eastern black nightshade percent control values for the Flufenacet tank-mix were 99% at the early-, mid-, and late-season ratings. Mean fall panicum percent control values for the Flufenacet tank-mix were 96%, 92%, and 91% at the early-, mid-, and late-season ratings respectively.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Flufenacet 60% WDG Herbicide. Weed claims for Eastern black nightshade and fall panicum in field corn are acceptable.

References

A. List of Studies/Information Submitted by Registrant

1339463 DACO 10.2.3.3. DEFINE DF Herbicide (flufenacet). Define DF Herbicide in Tankmix Combination with OPTION 2.25 OD Liquid + Atrazine Herbicides + UAN (28%) for Grassy and Broadleaf Weed Control in Field Corn. Additional Weeds. (Volume 1 of 1). Report Completion Date: November 3, 2006. 186 pp.

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