

## Evaluation Report for Category B, Subcategory 3.11, 3.9 Application

**Application Number:** 2020-0887  
**Application:** New Pests, Level of Control  
**Product:** Acuron Flexi Herbicide  
**Registration Number:** 33476  
**Active ingredients (a.i.):** S-Metolachlor and R-Enantiomer, Bicyclopyrone, Mesotrione  
**PMRA Document Number:** 3144042

### Background

Acuron Flexi Herbicide is registered for pre-emergent application to sweet, seed, and field corn and for post-emergent application to field corn (only) for control or suppression of grasses and broadleaf weeds at 3.7 L/ha and for short season suppression of a similar weed spectrum at 3.0 L/ha. Nitrogen solution, e.g., 28% UAN, may replace water as a carrier for the pre-emergent application. Acuron Flexi Herbicide is also recommended for post-emergent application in tank mix with a glyphosate herbicide in glyphosate tolerant field corn. 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 Acuron Flexi Herbicide:

- to upgrade a suppression claim for common ragweed to a control claim at the 3.7 L/ha application rate;
- to include a control claim for hairy galinsoga (0-10 cm) and suppression claims for giant ragweed (1-10 cm) and yellow nutsedge (1-15 cm) at the 3.7 L/ha application rate; and
- to include short season suppression claims for Canada fleabane (1 – 10 cm) and hairy galinsoga (0 – 10 cm) at the 3.0 L/ha application rate in field corn.

### Chemistry Assessment

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

### Health and Environmental Assessments

Health and environmental assessments were not required since there are no changes made to the application rate and use pattern.

## **Value Assessment**

The expansion of the Acuron Flexi Herbicide label to include hairy galinsoga, giant ragweed, Canada fleabane, and yellow nutsedge would provide corn growers with an option to control these weeds that have documented resistance to multiple herbicide modes of action, especially glyphosate herbicide.

Value information submitted for review consisted of scientific rationales and data from field trials. The provided information demonstrated that a pre- or post-emergent application of Acuron Flexi Herbicide at 3.7 L/ha alone or in tank mix with a glyphosate herbicide can be expected to provide acceptable control of common ragweed, hairy galinsoga and acceptable suppression of giant ragweed and yellow nutsedge (including glyphosate resistant biotypes). The provided information also demonstrated that a pre- or post-emergent application of Acuron Flexi Herbicide at 3.0 L/ha alone or in tank mix with a glyphosate herbicide can be expected to provide short season suppression of Canada fleabane and hairy galinsoga.

## **Conclusion**

The PMRA has conducted an assessment of the subject application and has determined that in accordance with the label, the submitted information is adequate to support control claims for common ragweed and hairy galinsoga (0 – 10 cm) and suppression claims for giant ragweed (1 – 10 cm) and yellow nutsedge (1 – 15 cm) at the 3.7 L/ha application rate as well as short season suppression of Canada fleabane (1 – 10 cm) and hairy galinsoga (0 – 10 cm) at the 3.0 L/ha application rate.

## Reference

### List of Studies/Information Submitted by Registrant

#### Value Assessment

3100023	2020, Acuron Flexi Efficacy Rationale, DACO: 10.1
3100025	2019, Evaluate Halex GT and Acuron Flexi programs applied post without Atrazine for control of annual broadleaf weeds in corn., DACO: 10.2.3.3
3100026	2019, Evaluate Halex GT and Acuron Flexi programs applied post without Atrazine for control of annual broadleaf weeds in corn., DACO: 10.2.3.3
3100027	2018, 'Evaluate HALEX GT and ACURON FLEXI programs applied POST without Atrazine for control of annual broadleaf weeds in corn, DACO: 10.2.3.3
3100028	2018, 'Evaluate HALEX GT and ACURON FLEXI programs applied POST without Atrazine for control of annual broadleaf weeds in corn, DACO: 10.2.3.3
3100029	2018, Evaluate HALEX GT and ACURON FLEXI programs applied POST without Atrazine for control of annual broadleaf weeds in corn, DACO: 10.2.3.3
3100030	2018, Evaluate HALEX GT and ACURON FLEXI programs applied POST without Atrazine for control of annual broadleaf weeds in corn, DACO: 10.2.3.3
3100031	2019, Evaluate Halex GT and Acuron Flexi programs applied post without Atrazine for control of annual broadleaf weeds in corn., DACO: 10.2.3.3
3100032	2019, Evaluate Halex GT and Acuron Flexi programs applied post without Atrazine for control of annual broadleaf weeds in corn., DACO: 10.2.3.3

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