

## Evaluation Report for Category B, Subcategory B.3.1 and 3.11 Application (New or Changes to Product Label – Rate Decrease and New Pests)

**Application Number:** 2018-2368  
**Application:** Category B.3.1 and 3.11 (New or changes to product label – Rate decrease and new pests)  
**Product:** Acuron Herbicide  
**Registration Number:** 31846  
**Active ingredients (a.i.):** bicyclopyrone, mesotrione, S-metolachlor, and atrazine  
**PMRA Document Number :** 2915953

### Background

Acuron Herbicide is registered for pre-emergent application to sweet, seed, and field corn and post-emergent application to field corn (only) at up to the 6-leaf stage for control of grasses and broadleaf weeds at the rate of 4.91 L/ha. It is also recommended for post-emergent application in tank mix with a glyphosate herbicide in glyphosate tolerant field corn. Nitrogen solution, e.g., 28% UAN, may replace water as a carrier for the pre-emergent application. 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 Herbicide to include (1) claims of control of Canada fleabane and waterhemp at the label rate of 4.91 L/ha and (2) claims of short-season control or suppression of all labelled weeds (for 4.91 L/ha) excluding Canada fleabane at a reduced rate of 4.0 L/ha.

### Chemistry, Health, and Environmental Assessments

Chemistry, health, and environmental assessments were not required as there was no change to product chemistry, product formulation, or use pattern.

### Value Assessment

The expansion of the Acuron Herbicide label to include Canada fleabane and waterhemp 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 data from field trials, scientific publications, and a rationale. The provided information demonstrated that a pre- or post-emergent application of Acuron Herbicide at 4.91 L/ha alone or in tank mix with a glyphosate herbicide can be expected to provide acceptable control of Canada fleabane and waterhemp (including glyphosate resistant biotypes). The scientific rationale, which cited the registered use pattern of precedent herbicide products, supported the inclusion of claims of short-season control or suppression of all labelled weeds excluding Canada fleabane at the reduced rate of 4.0 L/ha.

## Conclusion

The PMRA has completed an assessment of the subject application and has found the information sufficient to support the requested amendment to the registration of Acuron Herbicide.

## Reference

### List of Studies/Information Submitted by Registrant

PMRA #	References
2891402	2015, PWC15A1A - Fleabane, Canada (glyphosate resistant) control in no-till corn with pre-plant herbicides I, DACO: 10.2.3.3.
2891403	2015, PWC15A1B - Fleabane, Canada (glyphosate resistant) control in no-till corn with pre-plant herbicides II, DACO: 10.2.3.3.
2891404	2015, PWC16B3 - Fleabane, Canada (glyphosate resistant) control in corn with Syngenta herbicides, DACO: 10.2.3.3.
2891405	2017, PWC17A4 - Fleabane, Canada (glyphosate resistant) evaluate Acuron for control of GR Canada fleabane applied pre and post in corn, DACO: 10.2.3.3.
2891406	2016, PWC16B4 - Waterhemp (glyphosate resistant) control in corn with Syngenta herbicides, DACO: 10.2.3.3.
2891407	2017, PWC17A5 - Waterhemp (glyphosate resistant) evaluate Acuron for control of GR waterhemp applied pre and post in corn, DACO: 10.2.3.3.
2891408	2018, PWC16A1A - Waterhemp (glyphosate resistant) control in corn with soil applied herbicides I, DACO: 10.2.3.3.
2891409	2018, PWC17A2B - Waterhemp (glyphosate resistant) control in corn with soil applied herbicides II, DACO: 10.2.3.3.
2891410	2014, Control of Canada fleabane ( <i>Conyza canadensis</i> ) with glyphosate DMA/2,4-D choline applications in corn ( <i>Zea mays</i> ), DACO: 10.2.3.3.
2891411	2017, Biologically effective rates of a new premix (atrazine, bicyclopyrone, mesotrione, and S-metolachlor) for pre-emergence or post-emergence control of common waterhemp [ <i>Amaranthus tuberculatus</i> (Moq.) Sauer var. <i>rudis</i> ] in corn, DACO: 10.4.

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