Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4 & 3.1 Application

Application Number: 2010-5598
Application: New EP Product Chemistry - Guarantee, Identity & Proportion of Formulants; New to Product Labels - Application Rate Increase
Product: A13617V Herbicide
Registration Number: 30431
Active ingredients (a.i.): pinoxaden [PRN]
PMRA Document Number: 2142496

Purpose of Application

The purpose of this application was to register a new end-use product, A13617V Herbicide for use on spring wheat and barley to control annual grass weeds. A13617V Herbicide is applied aerially or by ground equipment, one time per season for a maximum seasonal total of 60 g a.i./ha. A13617V Herbicide contains the active ingredient pinoxaden at 50 g/L.

Chemistry Assessment

A13617V Herbicide is formulated as an emulsifiable concentrate containing pinoxaden at a nominal concentration of 50 g/L. This end-use product has a density of 0.99 g/mL and pH of 5.9 for a 1% dilution. The chemistry requirements for A13617V Herbicide have been fulfilled.

Health Assessments

A13617V Herbicide is of low acute toxicity via the oral (LD_{50} > 5000 mg/kg bw), dermal (LD_{50} > 5000 mg/kg bw) and inhalation (LC_{50} > 2.53 mg/kg bw) routes of exposure in the rat. It is mildly irritating (MAS = 8.3/110; persistence at 72 hrs) to the eye and severely irritating (MAS (24-72 hours) = 6.0/8) to the skin of the rabbit. It is not a skin sensitizer in the guinea pig.

As the use directions and restrictions for the end-use product A13617V Herbicide on spring wheat and barley fit within the registered use pattern for pinoxaden, no increase in the magnitude of pinoxaden residues on treated crops is expected. Consequently, the dietary exposure is not expected to increase and should not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

An evaluation was performed for individuals who may be exposed to A13617V Herbicide. The use of A13617V Herbicide should not result in risks of concern to the active ingredient, pinoxaden. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

The uses of A13617V Herbicide on spring wheat and barley to control annual grass weeds are consistent with the registered use pattern and rates for pinoxaden; therefore, there are no additional environmental concerns with this formulation.

Value Assessment

The efficacy of A13617V Herbicide applied to spring wheat and barley for control of labelled wild oats and green foxtail was directly compared to that of Axial 100EC Herbicide (Registration No. 28642) applied at the rate of 60 g a.i./ha. The submitted data support the claim that the products are agronomically equivalent from an efficacy perspective.

Crop injury to spring wheat and barley treated with A13617V Herbicide was usually low or absent, and was similar to the level of injury observed with Axial 100EC Herbicide. The submitted data support the claim that the products are agronomically equivalent from a crop tolerance perspective.

Conclusion

The PMRA has conducted a review of the available data for this application and has determined that A13617V Herbicide is acceptable for full registration.

References

Studies/Information Provided by Applicant/Registrant

PMRA #	Reference
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1982071	2010, A13617V Herbicide Identification, DACO: 3.1.2 CBI
1982072	2010, A13617V Herbicide Starting Materials, DACO: 3.2.1 CBI
1982073	2010, A13617V Herbicide Identification - Description of Formulation Process, DACO: 3.2.2 CBI
1982074	2010, A13617V Herbicide Certification of Limits, DACO: 3.3.1 CBI
1982075	2007, Analytical Method SF-85/2 - Pinoxaden and [CBI REMOVED] in formulation EC (050) and S:(012.5), by HPLC, DACO: 3.4.1 CBI
1982076	2010, A13617V Herbicide Chemical and Physical Properties, DACO: 3.5,3.5.1,3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5.15,3.5.2,3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.8,3.5.9 CBI
1982198	2010, CASK0H4022010- Efficacy and crop injury for new built-in adjuvant formulation A13617V Herbicide for the control of wild oat in barley, DACO: 10.2.3.3(B),10.3.2(A)
1982199	2010, CAAB0H0022009 - Efficacy of new built-in adjuvant formulation A13617V for the control of green foxtail in spring wheat, DACO: 10.2.3.3(B),10.3.2(A)
1982200	2010, CAAB0H0022010 - Efficacy and crop injury for new built-in adjuvant formulation A13617V for the control of green foxtail in barley, DACO: 10.2.3.3(B),10.3.2(A)
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1982207	2010, CAMB0H6012009 - Efficacy of new built-in adjuvant formulation A13617V for the control of wild oats in spring wheat, DACO: 10.2.3.3(B),10.3.2(A)
1982211	2010, CAMB0H6022010 - Efficacy and crop injury for new built-in adjuvant formulation A13617V for the control of green foxtail in barley, DACO: 10.2.3.3(B),10.3.2(A)
1982212	2010, CASK0H3012009 - Efficacy of new built-in adjuvant formulation A13617V for the control of wild oats in spring wheat, DACO: 10.2.3.3(B),10.3.2(A)
1982213	2009, CAAB0H0012009 - Efficacy of new built-in adjuvant formulation A13617V for the control of wild oats in spring wheat, DACO: 10.2.3.3(B),10.3.2(A)

ISSN: 1911-8082