

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2017-7588
Application: L.1.2: Submissions subject to PPIP policy - Equivalency Data
Compensation Assessment
Product: Brazen™ 100 EC
Registration Number: 33368
Active ingredients (a.i.): Pinoxaden
PMRA Document Number: 2949897

Purpose of Application

The purpose of this application was to register the end use product, Brazen™ 100 EC, containing pinoxaden, for use as post-emergent weed control and this end use product is based on a precedent product.

Chemistry Assessment

Brazen™ 100 EC is formulated as an emulsifiable concentrate containing pinoxaden at a concentration of 100 g/L. This end-use product has a density of 1.014 g/mL and pH of 4.5. The required chemistry data for Brazen™ 100 EC have been provided, reviewed and found to be acceptable.

Health Assessments

The end use product, Brazen™ 100 EC, is toxicologically equivalent to the precedent product. Subsequently, no toxicological data were reviewed or are required.

No new residue data for pinoxaden were submitted to support the registration of Brazen™ 100 EC under the Protection of Proprietary Interest in Pesticide Data (PIIP) program.

The use directions on the Brazen™ 100 EC label, including the target crops (i.e., spring wheat and barley), method (ground), rate and timing of application, adjuvant use, pre-harvest and grazing intervals, and crop rotation restrictions are similar to the precedent product.

The formulation components of Brazen™ 100 EC are not expected to significantly impact the magnitude of pinoxaden residues in/on treated spring wheat and barley.

Based on this assessment, residues of the active ingredient pinoxaden in/on treated spring wheat and barley commodities are not expected to increase and will be covered under the maximum residue limits (MRLs) currently established at 3.0 ppm in/on wheat bran, 1.6 ppm in/on barley bran, 1.3 ppm in/on wheat and 0.9 ppm in/on barley (<http://pr-rp.hc-sc.gc.ca/mrl-lrm/results-eng.php>), and residues of the safener cloquintocet-mexyl in/on treated spring wheat and barley commodities are not expected to increase and will be covered under the MRLs currently established at 0.01 ppm in/on each of wheat and barley. Consequently, the dietary exposure to residues of pinoxaden and the safener cloquintocet-mexyl is not expected to increase with the registration of the new end-use product Brazen™ 100 EC and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

The use of the end-use product Brazen™ 100 EC for application to spring wheat and barley is not expected to result in potential occupational or bystander exposure over the registered uses of pinoxaden and the safener cloquintocet-mexyl. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

When used according to label directions, Brazen™ 100 EC and its use rate will not result in increased environmental risk relative to existing registered products. Potential risks to the environment have been mitigated through adequate statements and required buffer zones to protect sensitive aquatic and terrestrial habitats.

Value Assessment

The availability of Brazen™ 100 EC would provide farmers with an alternative option to manage grassy weeds in spring wheat and barley grown in western Canada. Registration of this product may increase product competition in the marketplace, which may in turn reduce purchasing costs of similar products. Furthermore, the inclusion of Adama Adjuvant 80, Norac MSO, and Hasten NT as adjuvant alternatives for use with Brazen™ 100 EC gives farmers more flexibility to choose available products in the marketplace.

The formulation of Brazen™ 100 EC was compared to the formulation of a cited precedent product. It was concluded that differences in the formulations would be unlikely to result in any significant impact on product performance, in terms of both efficacy and crop tolerance. Value information from field research trials conducted in the Prairie Provinces in 2017 was also submitted for review. The trial information was considered in conjunction with the conclusion from formulation comparison.

Based on the weight of evidence, the agronomical equivalence between Brazen™ 100 EC and the cited precedent product can be established. Therefore, all labelled uses and claims found on the precedent product label are supported for inclusion on the Brazen™ 100 EC label.

Conclusion

PMRA has reviewed the information provided in support of this new product. Based on the results of this review, Brazen™ 100 EC is acceptable for registration.

References

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ISSN: 1911-8082

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