



Evaluation Report for Category C, Subcategory 3.10 Application

Application Number: 2010-6052
Application: Tank mixtures
Product: Simplicity Herbicide
Registration Number: 28887
Active ingredients (a.i.): pyroxsulam
PMRA Document Number English PDF: 2050679

Background

Simplicity Herbicide has been registered since January 31, 2008. Simplicity Herbicide is registered for early post-emergence application to spring wheat, durum wheat and winter wheat not underseeded to legumes for the control of certain annual broadleaved and grassy weeds. It is registered for use alone and in several tank mixtures, including one with Attain Herbicide Tank Mix, consisting of Attain A Herbicide (Reg. No. 24834) plus Attain B Herbicide (Reg. No. 24833) or MCPA LV500 (500 g a.e./L MCPA, present as 2-ethylhexyl ester; e.g. Reg. No. 20329) for control of labelled 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 Simplicity Herbicide to include the option of applying Simplicity Herbicide plus a labelled non-ionic surfactant in a tank mixture with Tilt 250E Fungicide (Reg. No. 19346), containing 250 g/L propiconazole, or Stratego 250EC Fungicide (Reg. No. 27528), containing 125 g/L propiconazole and 125 g/L trifloxystrobin, to spring wheat, including durum for control of labelled weeds and foliar diseases on wheat.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

Value Assessment

Data from six replicated field trials conducted in western Canada in 2008 and 2009 indicated that Tilt 250E Fungicide or Stratego 250EC Fungicide did not negatively impact the efficacy of Simplicity Herbicide applied in tank mixture with Attain XC Herbicide Tank Mix or MCPA Ester for control or suppression of labelled weeds. Therefore, it is not anticipated that either of these fungicides tank mixed with Simplicity as the lone herbicide would impact the efficacy of the latter for control or suppression of labelled weeds.

In one trial, the efficacy of labelled rates of Tilt 250E Fungicide or Stratego 250EC Fungicide for control of tan spot on wheat was not negatively impacted by Simplicity in tank mixture with either MCPA Ester or Attain HTM when evaluated at 21 and 42 days after application. Therefore, Simplicity as the lone herbicide in a tank mixture with Tilt 250E or Stratego 250EC would not be expected to affect the efficacy of either fungicide for control of tan spot. While no data were submitted for other foliar diseases, it is not anticipated that these herbicides would negatively impact the performance of either Tilt 250E or Stratego 250EC for control of foliar diseases on wheat since both are registered for use in tank mixture with several other herbicides. Early season foliar diseases on wheat are prevalent in western Canada at the same time that herbicide application would normally be made.

Addition of Tilt 250E Fungicide or Stratego 250EC Fungicide to tank mixtures of Simplicity Herbicide plus either MCPA Ester or Attain XC HTM did not appear to affect crop sensitivity to the herbicides as assessed 2-3 weeks after treatment. Therefore, it is not expected that spring wheat (including durum) would exhibit any greater sensitivity to application of a tank mixture of either fungicide product with Simplicity as the lone herbicide.

Conclusions

The Agency has completed an assessment of the subject application and has found the information sufficient to amend the registration of Simplicity Herbicide to include tank mixtures of it (with a labelled non-ionic surfactant) with either Tilt 250E Fungicide or Stratego 250EC Fungicide for application to spring wheat, including durum, for control of labelled weeds and foliar diseases on wheat.

References

List of Studies/Information Submitted by Registrant

Value Assessment

1991611 2010, Field Reports, DACO: 10.2.3.3(A)

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