



Evaluation Report for Category C, Subcategory 3.1 Application

Application Number: 2008-1351
Application: Category C3.1 (Application rate decrease or increase)
Product: Equinox EC Herbicide
Registration Number: 27603
Active ingredients (a.i.): Tepraloxydim
PMRA Document Number: 1718694

Background

Equinox EC Herbicide has been registered since July 22, 2004. In combination with Merge (Reg. No. 24702) or Dash HC (Reg. No. 27604) adjuvants, Equinox EC Herbicide is registered for post-emergence application at 26.7 to 50 g ai/ha to several broadleaved crops for the control of several annual grass weeds and quackgrass. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

The two originally registered rates of Equinox EC for annual grass control were 33 and 50 g ai/ha, with the latter being the recommended rate when weed densities were high, staging was late, or when weeds were under moisture and/or temperature stress and not growing as actively. The lower and higher application rates were reduced to 26.7 and 40 g ai/ha for control of labelled annual grass weeds, with the exception of green foxtail, under App No. 2006-7153. The labelled host crops at that time included flax, lentil, including imazethapyr and imazamox-tolerant lentil, and dry pea. The lower rate of 26.7 g ai/ha was extended to canola and imazethapyr and imazamox-tolerant canola when the registration of Equinox EC Herbicide was expanded to include its use on these crops under historical App. No. 2006-3731.

Purpose of Application

The purpose of this application was to amend the registration of Equinox EC Herbicide to lower application rates for the control of green foxtail from 33 and 50 g ai/ha to 26.7 and 40 g ai/ha, with the higher of the two rates intended for use when weed density is high, staging is late or when plants are environmentally stressed.

Chemistry Assessment

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

Health and Environmental Assessments

Health and environmental assessments were not required as there was no change to the product formulation and the only change to the use pattern was a reduction in application rate for the control of green foxtail.

Value Assessment

Data were submitted from 19 single season field trials conducted over several years in the Prairie region in which the efficacy of a range of rates of Equinox EC Herbicide applied in combination with Merge or Dash HC adjuvants in several labelled host crops was assessed for the control of green foxtail. While the rate of 26.7 g ai/ha was not assessed, the level of green foxtail control following application of Equinox EC Herbicide at 25-26.4 g ai/ha was similar to that following application of higher rates. The rate of 40 g ai/ha is supported where green foxtail is present at high densities, at a more advanced growth stage within the labelled application window, and/or when under environmental stress.

Conclusion

The Agency has completed an assessment of the subject application and has found the information sufficient to amend the registration of Equinox EC Herbicide to include lower application rates of 26.7 and 40 g ai/ha for the control of green foxtail.

References

A. List of Studies/Information Submitted by Registrant

Value Assessment

PMRA ID # 1582782. Application for EQUINOX EC (BAS 620 00H) Herbicide Reduced Rate for control of green foxtail (SETVI) for use on Flax, Field Peas and Lentils, DACO:

10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.3,10.3,10.3.1,10.3.3,10.4,10.5,10.5.2.

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