



Evaluation Report for Category B, Subcategory 3.4 Application

Application Number: 2010-1662
Application: Changes to Product Labels-Application Method
Product: Equinox EC Herbicide
Registration Number: 27603
Active ingredients (a.i.): tepraloxydim
PMRA Document Number : 2269051

Purpose of Application

The purpose of the application was to add aerial application to the label of Equinox EC Herbicide (27603, guar. 200 g a.i./L). Equinox EC Herbicide is registered for use in canola, chickpea, flax, dry bean, dry pea, lentils, mustard, sunflower, and imazethapyr and imazamox tolerant canola quality *Brassica juncea* by ground boom application at a maximum seasonal rate of 50 g a.i./ha. The maximum rate of application is the same as that currently registered for other crops (50 g a.i./ha).

Chemistry Assessment

No chemistry assessment was required for this application.

Health Assessments

No toxicology assessment was required for this application.

No new residue data were submitted to support the aerial application of tepraloxydim on canola, chickpeas, dry beans, dry peas, flax, lentils, mustard, sunflowers and canola quality *Brassica juncea* with the end-use product Equinox EC Herbicide. A comparison of the new and registered use patterns for Equinox EC Herbicide showed that there were no changes in the rate and timing of application, and that the aerial application will be made in an appropriate water volume. No increase in the magnitude of tepraloxydim residues in/on the registered crops is expected as a result of the addition of aerial application. The aerial application will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

The addition of aerial application of tepraloxydim to all registered crops on the Equinox EC Herbicide label is not expected to result in unacceptable risk for occupational or bystander exposure. A quantitative chemical handler risk assessment resulted in acceptable risk estimates for all scenarios. Post-application exposure is also not expected to increase over the registered use rate as ground and aerial applications would have identical re-entry activities and no new crops were proposed.

Environmental Assessment

The rate for the aerial application of Equinox EC Herbicide was the same rate as for crops with ground application methods. No new crops were added to the label. The addition of aerial application to the label was not expected to have any additional environmental impact beyond that already assessed for this product (see PRDD2004-01, *Tepraloxym, Equinox EC, Dash HC* and RDD2004-03, *Tepraloxym, Equinox EC, Dash HC*). Aerial buffer zones were calculated and added to the label and were considered sufficient to mitigate potential risks to the environment from the use of this product.

Value Assessment

Data and scientific rationales were submitted in support of the expansion of the Equinox EC Herbicide label to include aerial application. The data included bridging trials comparing the control of a number of labelled weeds with different water volumes. The information provided has been found to support aerial application from a value perspective.

Conclusion

Following the assessment of the available data, the PMRA has determined that the information is sufficient to support the addition of aerial application to the label of Equinox EC Herbicide.

References

PMRA No. 1898620. Application for the addition of aerial application of Equinox EC Herbicide at a reduced water volume (25-50 L/ha). BASF Canada Inc., 16 pp.

PMRA No. 1898622. Trial Reports. BASF Canada Inc., 59 pp.

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