



## Evaluation Report for Category B, Subcategory B.3.10 Application

**Application Number:** 2009-1005  
**Application:** Changes to product labels – tank mixes  
**Product:** Equinox EC Herbicide  
**Registration Number:** 27603  
**Active ingredients (a.i.):** Tepraloxydim [TPA]  
**PMRA Document Number:** 1784951

### Purpose of Application

The purpose of the application was to add a tank mix of Liberty 150 SN Herbicide (Reg. No. 28837) plus Equinox EC Herbicide (Reg. No. 27603) to the Equinox EC Herbicide label to improve grassy weed control under normal or adverse environmental conditions in glufosinate ammonium tolerant canola (Liberty Link<sup>®</sup>). The applicant also requested a number of wording changes on the Equinox EC Herbicide label, which relate to: a) the application timing, b) the canola terminology, and c) the Clearfield crop terminology.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The addition of the tank-mix of Liberty 150 SN Herbicide plus Equinox EC Herbicide on glufosinate ammonium tolerant canola to the Equinox EC Herbicide label can be supported from the food residues perspective. Exposure to residues of tepraloxydim is not expected to increase for any population subgroup given that the application rates of the tank-mix partners are within registered rates.

### Environmental Assessment

The maximum application rate for tepraloxydim is less than the maximum application rate for other registered uses of products containing tepraloxydim.

Re-analysis of the risk quotients for non-target terrestrial plants resulted in the addition of a 1 metre terrestrial buffer zone to the label, where there had been none previously. The addition of a 1 metre terrestrial buffer zone will contribute to risk reduction by increasing protection for non-target terrestrial plants.

## **Value Assessment**

Efficacy, crop phytotoxicity and yield data were submitted from 13 replicated small-plot field trials conducted in Alberta (4), Saskatchewan (3) and Manitoba (6) in 1998 (5), 1999 (3) and 2005 (5). The efficacy data provided indicate that the tank mix of Equinox EC Herbicide + Liberty 150 SN Herbicide provides improved control of the evaluated grass weed species under normal or adverse environmental conditions. The crop injury and yield data provided indicate that the tank mix of Equinox EC Herbicide + Liberty 150 SN Herbicide does not cause unacceptable injury to glufosinate ammonium tolerant canola. Based on the data provided, amending the Equinox EC Herbicide label to include the tank mix of Equinox EC Herbicide + Liberty 150 SN Herbicide for post-emergent use in glufosinate ammonium tolerant canola can be supported from a value perspective.

## **Conclusion**

Following the review of all available data, the PMRA supports: 1) the addition of the tank mix of Liberty 150 SN Herbicide (Reg. No. 28837) plus Equinox EC Herbicide (Reg. No. 27603) to the Equinox EC Herbicide label for grassy weed control in glufosinate ammonium tolerant canola, and 2) the wording changes on the Equinox EC Herbicide label.

## **References**

PMRA # 1734941 2009 Application for EQUINOX EC Herbicide + LIBERTY<sup>®</sup> 150 SN Herbicide Tank Mix for Enhanced Grass Weed Control in LIBERTY LINK<sup>®</sup> Glufosinate Ammonium Tolerant) Canola. DACO: Part 10 Value.

PMRA # 1734944 Trial Reports.

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