

## Evaluation Report for Category B, Subcategory 3.1, 3.10 Application

**Application Number:** 2016-7344  
**Application:** Changes to End-Use Product Label – Application Rate Increase and Tank Mixes  
**Product:** Enlist Duo Herbicide  
**Registration Number:** 30958  
**Active ingredients (a.i.):** 2,4-D, present as the choline salt, and glyphosate, present as dimethylamine salt  
**PMRA Document Number:** 2824740

### Purpose of Application

The purpose of this application was to amend the label for the end-use product, Enlist Duo Herbicide, by adding a glyphosate tank mix in order to increase the amount of glyphosate delivered in a single application for hard to control weeds in Enlist™ corn and Enlist™ soybeans.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The amendment of the label of Enlist Duo Herbicide to add a glyphosate tank mix in order to increase the amount of glyphosate applied in a single treatment from 0.877 kg a.e./ha to 1.8 kg a.e./ha for hard to control weeds in Enlist™ corn and Enlist™ soybeans fits within the registered use pattern for glyphosate. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No new residue data for glyphosate in glyphosate-tolerant field corn or soybean varieties were submitted, and none are required to support the rate increase of this active ingredient when Enlist Duo Herbicide is used in tank mix with an end-use product containing glyphosate, present as dimethylamine salt, in a single application at a maximum rate of 1.8 kg a.e./ha in Enlist™ corn and Enlist™ soybeans. As this rate increase does not represent an expansion of use for glyphosate, the maximum residue limits currently established for residues of glyphosate in field corn and dry soybeans are considered adequate to cover the expected residue levels. Dietary exposure to glyphosate is not expected to increase and will not pose an unacceptable health risk to any segment of the population, including infants, children, adults and seniors.

A toxicology assessment was not required for this application.

## **Environmental Assessment**

As the application rate for the tank mix option is within currently registered rates for the application of glyphosate on the same crops, it is not anticipated that this application increase will pose any additional risk to the environment. The product label is sufficient to mitigate against any environmental concerns when Enlist Duo Herbicide is used with a tank mix in accordance with label directions.

## **Value Assessment**

The tank mixture of Enlist Duo plus a product containing 480 g a.e./L glyphosate, present as the dimethylamine salt, will provide the grower of Enlist™ soybean varieties and Enlist™ corn varieties the flexibility to top up the glyphosate component, such that the total rate of glyphosate applied is 1800 g a.e./ha. Application of the tank mix may provide more consistent control of harder-to-control perennial weeds, as listed on glyphosate product labels for the rate of 3.75 L/ha (1800 g a.e./ha).

Value information was submitted in the form of small-scale field trials in which the tolerance of Enlist™ corn and Enlist™ soybean to application of the tank mixture of 4.3 L/ha Enlist Duo Herbicide plus 1.92 L/ha of an end-use product containing glyphosate at 480 g/L was evaluated. Crop phytotoxicity and yield data confirmed that these crops can be expected to exhibit a high margin of crop safety to application of the tank mixture. As glyphosate would be applied at the rate of 1800 g a.e./ha in the tank mixture, control of weeds listed on the labels of glyphosate products at this rate would be expected.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided and has found the information sufficient to support the amendment of the label for Enlist Duo Herbicide to add a glyphosate tank mixture.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
2701703	2016, 10.2.3.3 Appendix 1-Efficacy Small Scale Trials - 3 trials, DACO: 10.2.3.3
2701704	2016, 10.2.3.3 Appendix 2-Efficacy Small Scale Trials - 3 trials, DACO: 10.2.3.3

ISSN: 1911-8082

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