

Evaluation Report for Category B, Subcategory B.3.10 Application (New or Changes to Product Label – Tank Mixes)

Application Number: 2014-4337
Application: Category B, Subcategory B.3.10 (new or changes to product label – tank mixes)
Product: Paradigm Herbicide
Registration Number: 31304
Active ingredients (a.i.): 20% halauxifen and 20% florasulam
PMRA Document Number: 2480290

Background

Paradigm Herbicide is registered for post-emergent control or suppression of certain broadleaf weeds in spring wheat (including durum), winter wheat, and spring barley. Paradigm Herbicide is also labelled for application in tank mix with several herbicides for control of a broader spectrum of 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 use patterns of Paradigm Herbicide (Reg. No. 31304; 20% halauxifen and 20% florasulam) to replace the sentence that reads as “Add Turbocharge (or a registered equivalent adjuvant) at 0.5% v/v” with the following paragraph.

Add Intake Adjuvant at 0.5–1% v/v (use the higher Intake rate for heavy weed infestations or on stressed weeds that are not actively growing at the time of application). Alternatively, add Non-Ionic Surfactant (NIS) at 0.25% v/v or Turbocharge Adjuvant at 0.5% v/v.

Chemistry, Health, and Environmental Assessments

Chemistry, health, and environmental assessments were not required as there was no change to product chemistry, product formulation, or use pattern.

Value Assessment

Value information submitted included data from nine combined efficacy and crop tolerance trials conducted in the Canadian Prairies in 2012 and 2013.

Efficacy of Paradigm Herbicide at 10 g a.e./ha applied with Agral 90 at 0.25% v/v or Intake at 0.5% v/v or Intake at 1.0% v/v was directly compared to that applied with Turbocharge at 0.5% v/v for chickweed, cleavers, flax, hemp-nettle, lamb's-quarters, lady's-thumb, volunteer canola, and wild buckwheat. Mean control of these weeds with Paradigm Herbicide applied with Agral 90 or Intake was comparable to that applied with Turbocharge.

Crop tolerance to the same herbicide treatments was reported for spring barley in three trials, spring wheat in four trials, and durum wheat in one trial. Crop tolerance, expressed by % injury, % growth inhibition, and plant chlorosis and necrosis, observed for Paradigm Herbicide applied with Agral 90 or Intake was comparable to that applied with Turbocharge.

The addition of NIS and Intake as adjuvants for use with Paradigm will provide growers with greater flexibility to select their adjuvant and adjuvant rate (with Intake) based on product price, availability, weed populations and environmental conditions at the time of herbicide application.

Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Paradigm Herbicide to include more adjuvant options as requested.

Reference

List of Studies/Information Submitted by Registrant

PMRA # 2460962 2014, Individual trial reports with PNs (9 Trials), DACO: 10.2.3.3

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