

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

Application Number: 2014-2379
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 : 2469904

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, including MCPA Ester at 350 g a.e./ha, 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 to include (1) a new tank mixture with MCPA Ester at 280 g a.e./ha for additional control of hemp-nettle and (2) oats as a rotational crop with a 10 month re-cropping interval.

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 included data from nine efficacy trials conducted in the Canadian Prairies in 2012 and 2013. Efficacy of Paradigm Herbicide at 25 g/ha in tank mix with MCPA Ester at 280 g a.e./ha was assessed for control of cleavers, chickweed, hemp-nettle, lamb's-quarters, lady's-thumb, volunteer canola, and wild buckwheat. Treatments of Paradigm Herbicide at 25 g/ha + MCPA Ester at 350 g a.e./ha, Paradigm Herbicide at 25 g/ha, and MCPA Ester at 280 g a.e./ha were also included in these trials as positive controls. Experimental findings indicated that (1) control of hemp-nettle with the requested tank mixture was acceptable and (2) weed control provided by Paradigm Herbicide was not compromised when applied in tank mix with MCPA Ester. Therefore, the inclusion of the tank mixture with MCPA Ester at 280 g a.e./ha for additional control of hemp-nettle on the Paradigm Herbicide label has value.

Crop safety was not of concern since the tank mixture of Paradigm Herbicide with MCPA Ester at a higher rate (i.e., 350 g a.e./ha) is presently labelled.

The inclusion of oats to the list of rotational crops has value since oats is labelled as a rotational crop with a similar re-cropping interval on the Spectrum HTM (Reg. No. 27031 and 27032) and GF-2685 Herbicide

(Reg. No. 31305) labels. The rates of florasulam applied with Spectrum HTM and halauxifen applied with GF-2685 Herbicide were the same as or greater than those which would be applied with Paradigm Herbicide respectively. Furthermore, both Spectrum HTM and GF-2685 Herbicide are owned by Dow AgroSciences.

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 (1) a new tank mixture with MCPA Ester at 280 g a.e./ha for additional control of hemp-nettle and (2) oats as a rotational crop with a 10 month re-cropping interval.

Reference

List of Studies/Information Submitted by Registrant

PMRA # 2438536 2014, Field Trial Reports (9) - Paradigm TM MCPA 280 Efficacy and
NSAE_v3, DACO: 10.2.3.3.

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