



Evaluation Report for Category C, Subcategory C.3.10 Application (Addition of tank-mixes)

Application Number: 2008-1385
Application: Category C, Subcategory C.3.10 Application (addition of tank-mixes)
Product: Dycleer Agricultural Herbicide
Registration Number: 28761
Active ingredients (a.i.): dicamba (DIC)
PMRA Document Number: 1675287

Background

Dycleer Agricultural Herbicide has been registered since November 21, 2007. Dycleer Agricultural Herbicide is registered for post-emergence control of broadleaf weeds in cereals, corn, reduced tillage (prior to seeding and reduced tillage fallow), pastures and rangeland grasses, crop-free land (summerfallow and stubble), red fescue, canary grass, seedling grasses grown for seed and forage and low bush blueberries. 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 submission was to amend the registration of Dycleer Agricultural Herbicide to include tank mixtures of it at two reduced rates (53 or 77 g a.i./ha) with the two lowest registered rates of Starane Herbicide (Reg. No. 24815)(72 or 108 g a.i./ha) or with both Starane Herbicide plus 350 g a.e./ha MCPA Ester 500 herbicide. These tank mixes are intended for post-emergence application at the 2- to 5-leaf stage of the crop (spring wheat, including durum, winter wheat, and spring barley) for the control of specific weed species. While at least one of the three herbicides includes a registered claim for each of these weed species, the rate of the component herbicide, for which a control or suppression claim is registered for wild buckwheat, kochia, and Canada thistle, was reduced.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

Value Assessment

The efficacy of the tank mixture of Dycleer plus Starane Herbicide applied to cereals at two rate combinations for control of wild buckwheat and kochia was directly compared to that of Target Liquid Systemic Herbicide (Reg. No. 28028) or Thumper Emulsifiable Weedkiller (Reg. No. 22659) applied at registered rates.

The submitted data support a claim of suppression for wild buckwheat and a claim of control for kochia for the tank mixture of 53 g a.i./ha Dycleer plus 72 g a.i./ha Starane Herbicide. A claim of control for wild buckwheat is supported for the tank mixture of 77 g a.i./ha Dycleer plus 108 g a.i./ha Starane Herbicide. Also supported are weed species for which there are registered control claims for Starane Herbicide applied alone at 72 or 108 g a.i./ha.

The submitted data support these same weed claims for the three way tank mixture of 53 or 77 g a.i./ha Dycleer plus 72 or 108 g a.i./ha Starane Herbicide plus 350 g a.e./ha MCPA in addition to those weed species for which there are registered control claims for MCPA ester applied alone at the same rate. The available data do not support the requested suppression claim for Canada thistle for the three way tank mixture.

Crop injury to spring wheat, durum wheat and barley treated with the two or three-way tank mixtures was usually low or absent, and was similar to the level of injury observed following application of Target or Thumper. Grain yield data corroborated injury data. Application of these tank mixtures to winter wheat is not supported due to a lack of crop safety data and since Starane is not registered for use on winter wheat.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Dycleer Agricultural Herbicide to include the tank mixture of Dycleer Agricultural Herbicide with Starane and Dycleer Agricultural Herbicide with Starane plus MCPA Ester 500.

References

A. LIST OF STUDIES/INFORMATION SUBMITTED BY REGISTRANT

PMRA # 1584503. DACO 10.2.3.3.

PMRA # 1584504. DACO 10.2.3.3.

PMRA # 1584505. DACO 10.2.3.3.

PMRA # 1584506. DACO 10.2.3.3.

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