

Evaluation Report for Category B, Subcategory B.3.10 & B.3.11 Application (New or Changes to Product Label – Tank Mixes & Pests)

Application Number: 2014-3126
Application: Category B, Subcategory B.3.10 and B.3.11 (new or changes to product label – tank mixes and new pests)
Product: Authority 480 Herbicide
Registration Number: 29012
Active ingredients (a.i.): 480 g/L sulfentrazone
PMRA Document Number : 2472877

Background

Authority 480 Herbicide is registered as a soil applied herbicide at a rate range of 105-140 g a.i./ha for control of wild buckwheat, kochia, lamb's-quarters, and redroot pigweed in chickpeas, field peas, flax, sunflower, and soybean in medium and fine texture soils in Prairie Provinces. It may be applied to the soil as a pre-plant or pre-emergence (to both weeds and crops) surface treatment. 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 registrant has applied to amend use pattern of Authority 480 Herbicide to include (1) a claim of cleaver suppression at labelled rate and (2) a new tank mix with Pursuit 240 Herbicide, MultiStar Herbicide, Phantom Herbicide, Nu-Image Herbicide, and INT-800 Herbicide at 17 g a.i./ha imazethapyr (reduced rate) for control of volunteer canola and wild mustard in field peas.

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

Data from 16 field trials conducted in the Prairie Provinces between 2008 and 2013 were submitted. Efficacy of Authority 480 Herbicide was assessed for suppression of cleavers in 10 trials while efficacy of the tank mixture of Authority 480 Herbicide + Pursuit 240 Herbicide was assessed for control of volunteer canola in three trials and wild mustard in five trials.

Mean cleaver control with the treatment of Authority 480 Herbicide was 91% at the early rating and 78% at the late rating. Both mean volunteer canola and wild mustard control with the tank mixture of Authority 480 Herbicide + Pursuit 240 Herbicide was 90% at the late rating.

Crop safety information is not required since field pea is labelled for Authority 480 Herbicide and as well Pursuit 240 Herbicide. Crop injury and yield data reported from seven submitted field trials confirmed that field pea can be expected to exhibit an adequate margin of crop tolerance to the tank mixture of Authority 480 Herbicide + Pursuit 240 Herbicide when applied in accordance with the label instructions.

Volunteer canola, wild mustard, and cleavers are three major weeds in field peas. The amendments to the use pattern of Authority 480 Herbicide will provide immediate value to growers by providing control or suppression of these weeds. The future impacts are just as important as resistance to Group 2 chemistry is increasing with wild mustard and cleavers. The sustainability of field pea production will be improved with the registration of these amendments to the use pattern of Authority 480 Herbicide.

Based on the weight of evidence, the proposed amendments to the use pattern of Authority 480 Herbicide to include (1) a claim of cleaver suppression and (2) a new tank mix with Pursuit 240 Herbicide for control of volunteer canola and wild mustard in field pea have value and can be supported for registration. MultiStar Herbicide, Phantom Herbicide, Nu-Image Herbicide, and INT-800 Herbicide as alternatives of Pursuit 240 Herbicide are also supported for labelling since they perform similarly to Pursuit 240 Herbicide.

Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Authority 480 Herbicide to include (1) a claim of cleaver suppression (2) a new tank mix with Pursuit 240 Herbicide, MultiStar Herbicide, Phantom Herbicide, Nu-Image Herbicide, or INT-800 Herbicide for control of volunteer canola and wild mustard in field peas.

Reference

List of Studies/Information Submitted by Registrant

PMRA # 2446131	2014, Tolerance to and efficacy of sulfentrazone (Authority 480 Herbicide) plus imazethapyr for the control of volunteer canola, wild mustard in field peas and sulfentrazone for the suppression of cleavers in registered crops., DACO: 10.1, 10.2.3.1, 10.2.3.3(B), 10.3.1, and 10.3.2(A).
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