

New or Changes to Product Label - Tank Mixes Evaluation Report for Category C, Subcategory C.3.10 Application

Application Number: 2007-4469
Application: Category C, Subcategory C.3.10 Application (New or Changes to Product Label - Tank Mixes)
Product: Sencor 75DF Sprayule Water Dispersible Granular Herbicide
Registration Number: 17242
Active ingredients (a.i): Metribuzin
PMRA Document Number: 1502154

Background

Sencor 75DF Herbicide (containing 75% metribuzin) is registered for control of annual broadleaf weeds and grasses in a number of crops, including potatoes grown in Manitoba, Saskatchewan, Alberta, and the Interior of British Columbia. 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 registration of Sencor 75DF Herbicide to include a tank mixture of Sencor 75DF + Prism + a recommended non-ionic surfactant (i.e. Citowett Plus, AgSurf, and Agral 90) for control of annual broadleaf weeds listed on the Sencor 75DF label plus green foxtail on potatoes grown in Manitoba, Saskatchewan, Alberta, and Interior British Columbia.

Chemistry Assessment

A chemistry assessment was not required as there was no change to product chemistry.

Health Assessment

A health assessment was not required as there was no change to the product formulation and each component product of the tank mixture is presently registered for use on potatoes.

Environmental Assessment

An environmental assessment was not required as the use rate and use pattern for each component product in the requested tank mixture are registered.

Value Assessment

Data from a total of 20 trials, in which efficacy and/or crop tolerance were evaluated, were submitted for review. The trials were conducted in the Prairie Provinces during a 3 year period (1998-2000).

Control of the selected annual broadleaf weeds listed on the Sencor 75DF label (i.e. redroot pigweed, lamb's-quarters, wild mustard, green smartweed, and common chickweed) and green foxtail were visually assessed once during the growing season from 6 to 59 days after treatment. Mean control of these weeds following the application of Sencor 75DF at 210 or 280 g a.i./ha + Prism at 15 g a.i./ha + AgSurf at 0.2% v/v was acceptable and comparable to that of each component product and of the registered treatment of Sencor 75DF followed by Poast + Merge. The result indicated that the control of annual broadleaf weeds and green foxtail was acceptable with the tankmix of Sencor + Prism + AgSurf.

The tolerance of potatoes to the tank mixture of Sencor 75DF + Prism + AgSurf was visually assessed on 2 occasions at early (5-17 days after treatment) and mid seasons (> 24 days after treatment). A total of 5 potato varieties, including Atlantic, Dark Red Norland, Russet Burbank, Shepody, and New Leaf Shepody, were tested in these trials. Final tuber yield was reported in 1 of the 13 trials. Crop tolerance, expressed as % crop injury, and final tuber yield, expressed as % of the untreated weedy check, following the application of Sencor 75DF + Prism + AgSurf was acceptable and compared to that of each component product stand alone and of the registered tank mixture of Sencor 75DF followed by Poast + Merge.

Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Sencor 75DF Herbicide to include the tank mixture of Sencor 75DF + Prism + a recommended non-ionic surfactant for control of annual broadleaf weeds and green foxtail on potatoes grown in Manitoba, Saskatchewan, Alberta, and the Interior of British Columbia.

References

List of Studies/Information Submitted by Registrant

PMRA # 1257577 Data in support of registration of Sencor 75DF Herbicide in tankmix combination with Prism Herbicide plus Surfactant (AgSurf or Agral 90 or Citowett Plus) in Potatoes. Bayer CropScience. DACO 10.2.3.3 and 10.3.2. November, 2001. pp 186.

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