



Evaluation Report for Category B, Subcategory B.3.5 Application

Application Number: 2006-0304
Application: Rotational crops or plant back intervals
Product: Classic 25 DF Herbicide
Registration Number: 25433
Active ingredients (a.i.): chlorimuron ethyl
PMRA Document Number: 1412750

Background

Classic Herbicide has been registered since May 15, 1998. Classic 25 DF Herbicide is registered for use in Eastern Canada for the control of broadleaf weeds in soybeans. It may be applied post-emergence from the 1 to 3 trifoliolate stage of growth, at an application rate of 9 g ai/ha. 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 is to amend the registration of Classic 25 DF Herbicide to include additional rotational crop options, specifically cabbage, tomato, garden pea, and sweet corn after 10 months where the soil pH is 7.0 or less.

Data submitted previously supported the following rotational crops and application-to-planting intervals:

Soil pH \leq 7.4: field corn (10 months), winter wheat (3 months), white beans (10 months), soybeans (10 months), alfalfa (10 months).

Soil pH \geq 7.5: do not apply.

Chemistry Assessment

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

Health Assessment

To support the new crop rotation statement on the Classic 25 DF Herbicide label, no new residue data were submitted. Following the evaluation of the label amendments, there is no indication

that any of these changes will lead to measurable residues of chlorimuron ethyl in rotational crops when used according to the amended label. Since the use rate and pre-harvest interval remained the same, no increase in dietary exposure is anticipated.

Environmental Assessment

An environmental assessment was not required since the use pattern, including host crops, application rates and timings remained unchanged.

Value Assessment

Data from five trials were provided. All four proposed crops were examined in each trial. All trials included Classic treatments at the registered rate and the 2X rate. The proposed rotational crops were planted the year following treatment. The rotational studies were conducted in two years: 1999-2000 and 2001-2002. Recropping intervals ranged from 10.5 to 12 months. All trials took place in southern Ontario.

In general the four rotational crops were found to be tolerant. However, the following issues were identified: (1) no data had been provided to support the proposed 10-month re-cropping interval, (2) data was only provided for one tomato variety, (3) varietal differences in tolerance for sweet corn were observed and (4) the proposed label expansion is for all of Eastern Canada, but the data provided was limited to southern Ontario.

The registrant submitted three rationales in which arguments were provided to justify the extrapolation of rotational crop tolerance data from southern Ontario to all of Eastern Canada. The three rationales failed to satisfactorily address the potential greater persistence of chlorimuron in Québec soils as compared to soils in southern Ontario. Therefore, the extrapolation of rotational crop tolerance data from southern Ontario to all of Eastern Canada is **unacceptable** from a value perspective.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Classic 25 DF Herbicide to include cabbage, tomato, garden pea, and sweet corn as rotational crops, in southern Ontario, with an 11 month interval between application and planting where the soil pH is 7.0 or less.

References

A. LIST OF STUDIES/INFORMATION SUBMITTED BY REGISTRANT

- | | |
|----------------|--|
| PMRA # 1119027 | 10.3.2 Non-Safety Adverse Effects (E.G.: To Crop, Site of Application). 69 pp. |
| PMRA # 1284424 | Applicability of Ontario Recropping Studies to Support Recrop Intervals For Quebec. 79 pp. |

B. ADDITIONAL INFORMATION CONSIDERED

D) Published Information

- PMRA # 1284424 Soil fertility in the Northeast Region. Better Crops 90: 8-10. 2006.
- PMRA # 1284424 Environment Canada. Canadian Climate Normals 1971-2000.
www.climate.weatheroffice.ec.gc.ca/climate_normals/index_e.html
- PMRA # 1369728 Gaynor, J.D., MacTavish, D.C., Edwards, R., Rhodes, B.C., and Huston, F.
1997. Chlorimuron dissipation in water and soil at 5 and 25 °C. Journal of
Agricultural and Food Chemistry 45: 3308-3314.
- PMRA # 1284424 Implicit Prices for resource Quality Investments in Quebec's Agricultural Land
Market. Canadian Journal of Regional Science 24: 175-190. 2001.
- PMRA # 1369729 WSSA, 2002. Herbicide Handbook 8th edition, Weed Science Society of
America (ed.), ISBN 1-891276-33-6.

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