

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2006-4023
Application: Change of use site on the product label
Product: Avadex MicroActiv Herbicide
Registration Number: 25112
Active ingredients (a.i.): Triallate
PMRA Document Number: 1715202

Purpose of Application

The purpose of this application is to amend the Avadex MicroActiv Herbicide label (Reg No. 25112) to replace the general term ‘mustard’ with the specific terms of ‘yellow mustard, brown mustard, and oriental mustard (condiment and oilseed types)’.

Chemistry Assessment

There were no changes to the product chemistry, therefore, a chemistry assessment was not required for this application.

Health Assessments

To support the addition of yellow mustard, brown mustard and oriental mustard (condiment and oilseed types) on the Avadex MicroActiv Herbicide label a sunflower processing study was reviewed to determine the potential for concentration of residues of triallate and the metabolite TCPSA into oilseed processed commodities. As the processing study samples were stored frozen for longer than 30 days, demonstration of the freezer storage stability of triallate and TCPSA residues in processed commodities is required to validate the results of the processing study. In addition, previously reviewed residue data from field trials conducted in/on canola and mustard were reassessed in the framework of this application. The magnitude of the triallate and TCPSA residues in mustard oilseed types will be the same as for canola. Accordingly, no additional dietary risk from triallate is anticipated.

The use of Avadex MicroActiv Herbicide fits within the existing use pattern for triallate. The occupational exposure is not expected to increase from the currently registered uses.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

A rationale was submitted in lieu of data to support this application. Condiment mustards (yellow, brown, oriental) appear on the Avadex MicroActiv Herbicide label under the general term 'mustard'. The rationale provided by the applicant supported the label expansion, to include oilseed type oriental mustard, from a value standpoint as a result of the following points:

- 1) oriental mustard (*Brassica juncea*) is closely related to canola (*Brassica napus*, *Brassica rapa*) as all three species share the same 10 chromosomes from the *Brassica rapa* genome,
- 2) crop safety has been established on condiment mustard and canola (a closely related crop),
- and 3) Avadex MicroActiv Herbicide (trallate), a graminicide product applied pre-plant or post-plant incorporated, is selective on grassy weeds and does not normally show activity on broadleaf crop species, therefore, it is not expected that an application of triallate would result in crop injury to oriental mustard (*Brassica juncea*) with canola quality oil.

Conclusion

The PMRA has completed an assessment of available information for Avadex MicroActiv Herbicide and has found the information sufficient to support a conditional registration for use on yellow mustard, brown mustard, and oriental mustard (condiment and oilseed types).

References

PMRA Document Number	Reference
1271340	2006, Rationale to extend the existing registration of selected group one (1) herbicides and trifluralin herbicide from mustard types (yellow, brown, oriental) to <i>Brassica juncea</i> (canola quality mustard). Part 10 Value. July 4, 2006. SAF. DACO 10.3.2.
1109255	1989, Determination of Triallate and its Major Metabolite in Soybean Seed Processed Commodities., Project #: 061200, DACO: 7.4.5
1109256	1998, Determination of Triallate and its major metabolite in Sunflower seed processed commodities, MSL-7825, DACO: 7.4.5

ISSN: 1911-8082

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