

Evaluation Report for Category B, Subcategories: B.3.12 (new host) Application

Application Number: 2005-1911, 2005-1912, 2005-1777
Application: Evaluation Report for Category B, subcategories: B.3.12 (new host)
Product: Amigo Adjuvant, Select Emulsifiable Concentrate Postemergence Herbicide, Centurion Emulsifiable Concentrate Postemergence Herbicide
Registration Number: 22644, 27598, 22625
Active ingredients (a.i.): Polyoxyalkylated Alkyl Phosphate Ester, Clethodim
PMRA Document Number: 1366270

Background

Centurion EC and Select EC are registered for condiment mustard (oriental, brown, yellow) for the control of a broad range of grasses. For specific details of uses, application rates and methods, precautions, restrictions and personal protective equipment, the product label should be consulted.

Purpose of Application

The purpose of this petition is to amend the registration of both Centurion EC and Select EC to add oilseed oriental mustard to the product labels. The proposed rate and PHI is the same for oilseed oriental mustard as it is for the existing use on condiment mustard (oriental, brown, yellow), one foliar application of 91.2 g a.i./ha with a 60 d preharvest interval (PHI).

Chemistry Assessment

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

Health Assessment

A toxicology assessment was not required as there was no change to the product formulation.

No increase in occupational exposure is expected to occur from the requested use. The requested use fits within the existing use pattern for clethodim.

Residue data for clethodim in oilseed type oriental mustard were not submitted to support the use expansion of this active on the Centurion EC / Select EC and Amigo Adjuvant labels. According to the Regulatory Proposal (PRO2003-02), existing residue data for canola may be used to support oilseed oriental mustard if the label directions for these two crops are identical and existing residue data on file for rapeseed are adequate to support the proposed use on oilseed oriental mustard. Previously reviewed residue data from field trials conducted for canola (rapeseed) were reassessed in the framework of this petition. In addition, a processing study in treated rapeseed was also reassessed to determine the potential for concentration of residues of clethodim into processed commodities.

Maximum Residue Limit(s)

Based on the residue data for rapeseed (canola) treated with clethodim, it was determined that the MRL for canola of 0.05 ppm can be proposed for oilseed oriental mustard as a result of the use of Centurion Emulsifiable Concentrate Herbicide and Select Emulsifiable Concentrate Herbicide. Therefore, an MRL is proposed for oilseed oriental mustard at 0.05 ppm. Residues of clethodim did not concentrate in crude and refined oil processed from canola. Residues of clethodim in processed commodities will be covered under the proposed MRL for the raw agricultural commodity (RAC).

The existing MRL of 0.4 ppm for mustard will be revised to show that it is for condiment mustard seed only.

Environmental Assessment

An environmental assessment was not required because the proposed use directions for oilseed oriental mustard are the same as those already registered for condiment type mustard as well as for other crops. Therefore, the use of Centurion EC / Select EC and the Amigo Adjuvant on oilseed oriental mustard is not expected to increase environmental exposure to these products as compared to the registered uses.

It should be noted that both Centurion EC and Select EC contain aromatic hydrocarbons formulants, which are of environmental concern. A statement indicating their toxicity to aquatic organisms appears on the product label.

Value Assessment

Select EC / Centurion EC plus Amigo Adjuvant are presently registered for use on oriental mustard [*Brassica juncea* (L.)] (condiment type only). The Data Requirements and Labelling for Oilseed Oriental Mustard [*Brassica juncea* (L.)] (Regulatory Proposal PRO2003-02) states that:

- “4.2 (a) For products specifically labelled for use on oriental mustard:
Crop tolerance data requirements are waived”

As Oriental mustard has already been demonstrated to have acceptable tolerance to applications of Centurion EC and Select EC when used in accordance with the use directions. There is no reason to suspect that oriental mustard grown for oilseed will be less tolerant to an application of the subject products than the presently labelled oriental mustard grown for condiment use only.

For the reasons provided above, the applications to amend Centurion EC / Select EC and the Amigo Adjuvant labels to include the use on oilseed oriental mustard is acceptable from a value perspective.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Centurion EC / Select EC and the Amigo Adjuvant labels for the addition of oilseed oriental mustard.

MRLs

Following the review of all available data, an MRL of 0.05 ppm for oilseed oriental mustard is recommended based on the canola residue data. Residues of clethodim at the recommended MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Reference List

A. List of Studies/Information Submitted by Registrant

Health Assessment

1065766	1988, Confined Rotational Crop Study of [Ring-4, 6-14C] Clethodim with Carrots, Lettuce and Wheat., Chevron Chemical Company, MEF-0036, DACO: 7.4.3
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Environmental Assessment

None

Value Assessment

None

B. Additional Information Considered

i) Published Information

Health Assessment/Value Assessment

1315208	PRO2003-02 English
1315210	PRO2003-02 French

Environmental Assessment

1346881	REG2005-01, pg.83 English
1346882	REG2005-01, pg.83 French

ii) Unpublished Information

Health Assessment

1234059	HERBICIDES: CLETHODIM: SELECT: RESIDUES IN PROCESSED CANOLA SEED, CANADA, 1989. SUPPLEMENT TO MAIN REPORT DATED FEBRUARY 1990 (90-136.1DC), DACO: 7.4.2
1254156	SCIENCE REVIEW: BASIC: HED: DATE OF DOCUMENT 90.07.20:CLETHODIM: CLETHODIM (HERBICIDE) REVIEW OF CHEMISTRY, METABOLISM, RESIDUES & METHODOLOGY: REGN# 22623, DACO: 12.1, pg. 42-44

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