

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2023-1491
Application: Changes to Product Labels-New Site or Host
Applicant: Bayer CropScience Inc.
Product: BUTEO start 480 FS
Registration Number: 31451
Active ingredient (a.i.): Flupyradifurone
PMRA Document Number: 3586157

Purpose of Application

The purpose of this application was to amend the label of BUTEO start 480 FS to add a new crop: mustard (oilseed and condiment).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The occupational exposure and risks from the addition of the use on mustard seed to the BUTEO start 480 FS label were assessed. No risks of concern are expected from the new use, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data for flupyradifurone in mustard seeds (oilseed and condiment) were submitted or were required to support the addition of these crops to the registered BUTEO start 480 FS label. Previously reviewed residue data from field trials conducted in/on canola were reassessed in the framework of this application. In addition, previously reviewed processing studies in treated cottonseed and soybeans were reassessed to determine the potential for concentration of residues of flupyradifurone into processed commodities.

Maximum Residue Limit

The recommendation for the proposed maximum residue limit (MRL) for flupyradifurone was based upon the previously reviewed field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of flupyradifurone in/on crops and processed commodities are proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRL for the raw agricultural commodity (RAC).

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Proposed MRL (ppm)
			LAF T	HAF T			
Canola	Seed Treatment / 56-89 + Foliar / 194-207 Total: 254-289	60- 170	<0.01 0	0.024	Cottonseed refined oil: <1x Soybean refined oil: <1x	Crop Subgroup 20A: Rapeseeds (revised): 0.03	Mustard seeds (condiment type): 0.03

ppm = parts per million; LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial

Following the review of all available data, the MRL proposed in Table 1 is recommended to cover residues of flupyradifurone in/on mustard seeds (condiment type). Residues of flupyradifurone in/on mustard seeds (oilseed type) will be covered by the currently established MRL of 0.03 ppm in/on Crop Subgroup 20A: Rapeseeds (revised). Dietary risks from exposure to residues of flupyradifurone in/on mustard seeds (oilseed and condiment) at the established and proposed MRLs were shown to be acceptable for the general population and all subpopulations, including infants, children, adults and seniors. Thus the foods that contain residues as listed in Table 1 are considered safe to eat.

Environmental Assessment

The use expansion of BUTEO start 480 FS to mustard (oilseed and condiment) is within the currently registered uses on the label. Therefore, the risk is acceptable when the product is used according to the label directions, which include statements to mitigate risk to the environment.

Value Assessment

Submitted value information consisted of a scientific rationale to extrapolate the use of BUTEO start 480 FS on mustard (oilseed and condiment) from its currently registered use on canola. The value information was sufficient to support the addition of control of flea beetles to the label of BUTEO start 480 FS at an application rate of 625-1042 mL product (300-500 g a.i.) per 100 kg seed of mustard (oilseed and condiment). The addition of this claim to the label of BUTEO start 480 FS will provide mustard growers with an additional product with a new mode of action for managing flea beetles on mustard.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the label amendment for BUTEO start 480 FS to add mustard (oilseed and condiment).

References

PMRA Document Number	Reference
3454337	2023, DACO 10 - Addition of mustard (oilseed and condiment) to the Buteo start 480 FS, DACO: 10.1,10.2.2,10.2.3.1,10.3.1,10.5.1,10.5.2,10.5.3,10.5.4
3454338	2023, DACO 10 - Addition of mustard (oilseed and condiment) to the Buteo start 480 FS, DACO: 10.3.1
3454339	2023, Compilation of trial reports - Addition of mustard to the Buteo start 480 FS, DACO: 10.3.2
3454340	2023, BUTEO start 480 FS (flupyradifurone 480 g/L): DACO 5 Information Supporting the Proposed Use for Mustard (Oilseed and Condiment), DACO: 5.1,5.2

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