New Host
Evaluation Report for Category B, Subcategory B.3.12 Application

Application Number: 2006-3730
Application: New Host
Product: SOLO WDG Herbicide
Registration Number: 25496
Active ingredients (a.i.): Imazamox (70 % a.e.)
PMRA Document Number: 1467216

Background

SOLO WDG Herbicide has been registered since November 10, 1998. SOLO WDG Herbicide is registered for post-emergent use in field peas and imazethapyr tolerant canola for the control of broadleaf weeds and grasses. For specific details of uses, application rates and methods, precautions, restrictions and personal protective equipments, refer to the product label.

Purpose of Application

The purpose of this petition is to amend the registration of SOLO WDG Herbicide to add Clearfield lentils to the product label. The proposed rate and preharvest interval (PHI) are 15-20 g a.e./ha and 60 days, respectively.

Chemistry Assessment

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

Health Assessments

The request to add Clearfield lentils to the SOLO WDG herbicide label fits within the registered use pattern for imazamox. Use on Clearfield lentils should not result in increased exposure of mixer/loader/applicators, re-entry workers, or bystanders when compared to currently registered crops.

Residue data for imazamox in Clearfield lentils were submitted to support the use expansion of this active on the SOLO WDG Herbicide label. Previously reviewed residue data from field trials conducted in/on soybeans were reassessed in the framework of this petition.

Maximum Residue Limit(s)

Based on the maximum residues observed in the crop commodity treated according to label directions, a maximum residue limit (MRL) of 0.25 ppm to cover residues of imazamox in/on Clearfield lentils will be established as shown in Table 1. An analytical method was reviewed for the purpose of enforcing the proposed MRL.

TABLE 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit (MRL)

Commodity	Application Method/ Total Application Rate (g a.e./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL
			Min	Max			
Clearfield lentils	Ground application at 15-20	60	<0.05	0.13	NA	NA	0.25 ppm

Environmental Assessment

An environmental assessment was not required because the use pattern proposed for the new host (Clearfield lentils) is the same as the one currently registered for other crops for SOLO WDG Herbicide. Therefore, the use of this product on Clearfield lentils in accordance with label instructions is not expected to increase environmental exposure to imazamox as compared to the registered uses.

Value Assessment

Data from four field trials that were conducted in 2005 in Saskatchewan at Estlin (2 trials) and Vanscoy (2 trials) were reviewed. In each trial, SOLO WDG Herbicide was applied in separate treatments of 20 g a.e./ha (maximum 1x rate) plus 0.5% v/v Merge adjuvant, and 40 g a.e./ha plus 0.5% v/v Merge. An additional treatment of Odyssey Water Dispersible Granular herbicide on imazamox and imazethapyr tolerant lentil applied at the maximum registered rate of 30 g a.e./ha (15 g a.e./ha each of imazamox and imazethapyr) plus 0.5% v/v Merge was included for comparison. The two trials conducted at Vanscoy were hand weeded and, therefore, were dedicated crop tolerance trials.

The degree of control of SOLO WDG-labelled weed species that were assessed in the Estlin trials following application of 20 g a.e./ha of SOLO WDG herbicide plus 0.5% v/v Merge adjuvant in imazamox-tolerant lentil was consistent with claims that are presently registered for these weed species in field pea and imazamox-tolerant canola. Therefore, weed control and suppression claims that are registered for SOLO WDG herbicide at the rates of 15 and 20 g a.e./ha for field pea and imazamox-tolerant canola are also applicable to imazamox-tolerant lentil.

No injury was observed to imazamox-tolerant lentil following application of up to 40 g a.e./ha SOLO WDG herbicide plus 0.5% v/v Merge adjuvant. Yield data confirmed the crop injury assessments. Furthermore, yield of imazamox-tolerant lentil in SOLO WDG herbicide treatments was comparable to that of the Odyssey herbicide treatment.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of SOLO WDG Herbicide to include use post-emergent use on Clearfield lentils at a rate of 15-20 g a.e./ha and a PHI of 60 days.

MRLs

Following the review of all available data, an MRL of 0.25 ppm for Clearfield lentils is recommended to cover residues of imazamox. Residues of imazamox in this crop commodity at the established MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

References

A. List of Studies/Information Submitted by Registrant

Health Assessment

1265512	2006, The Magnitude of BAS 720 H Residues in Clearfield Lentils, 138146, MRID: N/A, DACO: 7.4.1
1336125	2002, BAS 720 H (CL 299263): Laboratory Validation of LC/MS Determinative and LC/MS/MS Confirmatory Method M 3515 for the Determination of BAS 720 H and CL 263284 Residues in Plant Matrices, 67684, MRID: N/A, DACO: 7.2.1
1336127	2002, Independent Method Validation of BASF Analytical Method M3515 entitled: BAS 720 H (CL 299263): LC/MS Determinative and LC/MS/MS Confirmatory Method M 3515 for the Determination of BAS 720 H and CL 263284 Residues in Plant Matrices, 67686, MRID: N/A,
1282074	Use Site Description SOLO WDG Herbicide on Clearfield Lentils

Environmental Assessment
None

Value Assessment

1265513	Dec 28, 2005 Solo WDG Herbicide - Application in Clearfield Lentils. BASF Reg. Doc. No. 2006/7007196. 136 pp.

B. Additional Information Considered

None

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