

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2008-5066
Application: B.5.0 New MRL for previously assessed TGAI
Product: Spirodiclofen Technical Miticide
Registration Number: 28050
Active ingredients (a.i.): Spirodiclofen
PMRA Document Number : 1915056

Purpose of Application

The purpose of this submission was to establish a maximum residue limit (MRL) to cover residues of spirodiclofen in/on hops (dried). Spirodiclofen Technical Miticide (Registration number 28050) has conditional registration. There is currently an application to convert it to full registration (Submission number 2007-8681). The associated end-use product is Envior 240SC Miticide (Registration number 28051). Envior 240SC Miticide is registered for use on various food crops (USC 13 & 14).

Health Assessment

Residue data for spirodiclofen on hops (cones, green and kiln-dried; brewer's yeast, brewer's grain, brewer's malt, beer and hop draff) from the USA and Germany were submitted to support the import of spirodiclofen treated hops to Canada.

Maximum Residue Limit

Based on the maximum residues observed in hops treated according to Envior 2SC Miticide label (USA) and Envior 240SC label (Germany) directions, a maximum residue limit (MRL) to cover residues of spirodiclofen in/on hops will be established as shown in Table 1. Residues of spirodiclofen in/on hops processed commodities, not listed in Table 1, are covered under the proposed import MRL for the raw agricultural commodity (RAC).

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

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max			
Hops (dried)	Foliar application/ 0.3391- 0.4617	14	3.9	24	---	---	40

Environmental, Value and Chemistry Assessments

Environmental, value and chemistry assessments were not required for this application.

Conclusion

Following the review of all available data, an MRL of 40 ppm for hops (dried) is recommended to cover residues of spirodiclofen. Residues of spirodiclofen at the recommended MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

References

PMRA Document Number	Reference
1665675	Gap Table, DACO: 1.4
1665679	2007, Spirodiclofen : Magnitude of the residue in or on hops, DACO: 7.4.1
1677055	2005, Tier 2 summary of the metabolism and residues data on the plant protection product for Spirodiclofen SC 240 (240 g/L Spirodiclofen) (supporting the use of hops in Germany), DACO: 6.1,7.1
1765666	Statement PMRA Analysis of beer sample, DACO: 0.8
1765667	Statement PMRA Hops IT, DACO: 0.8,7.4.1,7.4.5

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