

Evaluation Report for Category B, Subcategory 3.11, 3.12 Application

Application Number: 2012-4338
Application: B.3.11 (Product labels - new pests)
B.3.12 (Product labels - new site or host)
Product: DuPont Coragen Insecticide
Registration Number: 28982
Active ingredients (a.i.): Chlorantraniliprole
PMRA Document Number : 2270585

Purpose of Application

The purpose of this application was to add new pests and crop groups to the label of DuPont Coragen Insecticide (200 g/L chlorantraniliprole). Proposed new label claims included grasshoppers, cutworms, armyworm, fall armyworm, beet armyworm, corn earworm, and European corn borer on Cereal Grains (Crop Group 15) and Cereals for Forage (Crop Group 16), which are new crop groups for the label of this product. In addition, new pest claims for grasshoppers were proposed on Legume Vegetables (Crop Group 6) except Soybeans and on the Grass Forage, Fodder, and Hay Group (Crop Group 17), on which DuPont Coragen Insecticide is already registered for use.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A health assessment has been conducted to amend the currently registered commercial class end-use product, DuPont Coragen Insecticide containing 600 g/L chlorantraniliprole, to include the control of pests on cereal grains, cereal forage, fodder and hay, the addition of new pests and the removal of seed production only restriction for grass forage, fodder and hay. Exposure to mixer/loader/applicators, postapplication workers and bystanders was determined to be acceptable.

Residue data from field trials conducted in the United States were submitted to support the domestic use of DUPONT™ CORAGEN™ Insecticide on crop group 15 (cereal grains except corn and rice), crop group 16 (forage of cereal grains) and crop group 17 (grass forage, fodder and hay). Chlorantraniliprole was applied to cereal grains at one-fold the proposed domestic GAP, and harvested according to label directions. In addition, a processing study in treated wheat was reviewed to determine the potential for concentration of residues of chlorantraniliprole into processed commodities.

Maximum Residue Limit(s)

Based on the maximum residues observed in barley grain, grain sorghum grain and wheat grain treated according to label directions, a maximum residue limit (MRL) of 6.0 ppm will be established as shown in Table 1, to cover residues of chlorantraniliprole in the complete cereal grains (except corn and rice) crop group (CG 15). Residues in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs).

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimenta l Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max			
Barley grain	Foliar broadcast; 224 – 232	1	1.65	2.17	None	NA	6.0 (Crop Group 15, except corn and rice)
Grain sorghum grain	Foliar broadcast; 224 – 226	1	0.74	1.52	None		
Wheat grain	Foliar broadcast; 225-234	1	0.18	0.43	None		

NA = Not applicable

Following the review of all available data, an MRL of 6.0 ppm for the cereal grains crop group (except corn and rice, CG 15) is recommended to cover residues of chlorantraniliprole. Residues of chlorantraniliprole in these crop commodities at the proposed MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The proposed use expansion is not expected to increase environmental exposure or risk as the application rates and method for the proposed use fall within the registered uses of the subject product. Therefore, no comprehensive environmental risk assessment has been conducted for this use expansion.

Value Assessment

Efficacy data were submitted from three field trials conducted against grasshoppers, one by ground application on oats in Manitoba and two by aerial application on grasses in Nevada, which demonstrated acceptable efficacy for these uses at application rates of 125-250 mL/ha (25-50 g a.i./ha). Acceptable rationales were submitted in support of extrapolating label claims for the lepidopteran pests to cereal crops, based on the registered uses of DuPont Coragen Insecticide against the same pests in various other crops, and to extrapolate the label claim for grasshoppers to legume vegetables, based on the efficacy data noted above and the broad use pattern established for DuPont Coragen Insecticide demonstrating comparable efficacy for other chewing insect pests across a variety of different crops.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product DuPont Coragen Insecticide, and has found the information sufficient to add new to the Chlorantraniliprol label for use on new crop groups to the product label.

References

PMRA Doc No.	Reference
2235524	2012, Efficacy Assessment of DuPont™ Coragen® Insecticide for Control of Insect Pests in Cereal Crops – Canada, DuPont-36155, DACO: 10.1, 10.2, 10.2.2, 10.2.3.3, 10.3.1, 10.3.2, 10.3.3
2235526	2012, Chlorantraniliprole: Magnitude of the residue on barley, grain sorghum and wheat, DACO: 7.4.1,7.4.2,7.4.5
2293854	2010, Chlorantraniliprole. Amended section 3 registration request for uses on Various field, vegetable, and fruit crops and discussion of future registration and tolerance requests. Summary of Analytical chemistry and residue data., DACO: 12.7
2293855	2010, Chlorantraniliprole(DPX-E2Y45). Human health risk assessment for section 3 registration request to expand uses of Coragen, Altacor and Dermacor X-100 labels on various field, vegetable and fruit crops, DACO: 12.7
2365525	CHLORANTRANILIPROLE [2E8064] - REVISED HED Sum of Analyt Chem 9-10-13, DACO: 12.7
2365526	Chlorantraniliprole [2E8064] - DER for Barley, Grain Sorghum and Wheat, DACO: 12.5.7
2365527	Chlorantraniliprole [2E8064] - DER for Processed Wheat, DACO: 12.5.7

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