

## Evaluation Report for Category B, Subcategory 3.12 Application

**Application Number:** 2016-2767  
**Application:** Changes to Product Label – New Site  
**Product:** Movento 240 SC Insecticide  
**Registration Number:** 28953  
**Active ingredients (a.i.):** Spirotetramat  
**PMRA Document Number :** 2764432

### Purpose of Application

The purpose of this application was to amend the end-use product (EP), Movento 240 SC Insecticide, to add uses on sugarbeet and carrot and to update Crop Groups (CGs) 12 (Stone Fruit) and 14 (Tree Nuts) to the revised CG12-09 and CG14-11.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

A toxicology assessment was not required for this application.

The use pattern of the Movento 240 SC Insecticide on carrot and sugarbeet falls within the registered use pattern of spirotetramat and are not expected to result in exposures to mixer/loader/applicators, post-application re-entry workers or bystanders that are greater than those from the previously registered uses. As such, no risks of concern are expected when workers follow precautionary statements and directions as stated on the label.

Residue data for spirotetramat in carrot roots and sugarbeet roots were submitted to support the domestic use of Movento 240 SC Insecticide. Spirotetramat was applied to carrot root and sugarbeet root at 1.0-fold the approved application rate, and harvested according to the label PHI. Previously reviewed residue data from field trials conducted in/on cherries, peach, plum, almond, and pecan were reassessed in the framework of this petition to extend MRLs from crop group 12 to crop group 12-09, and crop group 14 to crop group 14-11. In addition, a processing study in treated sugarbeet roots was reviewed to determine the potential for concentration of residues of spirotetramat into processed commodities.

### Maximum Residue Limit

The recommendation for maximum residue limits (MRLs) for spirotetramat was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of Spirotetramat (BYI08330) and the four metabolites

BYI08330-enol, BYI08330-ketohydroxy, BYI-08330-monohydroxy, and BYI08330 enol-glucoside, expressed in parent equivalents in/on crops and processed commodities are proposed as shown in Table 1.

Commodity	Application Method/ Total Application Rate (g ai/ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAF T	HAF T			
Carrot roots	Foliar broadcast spray / 175-186	1-2	<0.05	0.105	-	-	0.15
Sugar beet roots	Foliar broadcast spray/ 314-331	28-34	<0.05	0.072	-	-	0.15
Cherries	Airblast spray/ 265-274	7	0.318	2.044	-	4.5 (CG 12)	4.5 (CG 12-09)
Peach			0.414	0.692	-		
Plums			0.091	0.683	-		
Almonds	Airblast spray/ 369-386	7	0.05	0.128	-	0.25	0.25
Pecans			0.05	0.296	-	(CG 14)	(CG 14-11)

LAF = Lowest Average Field Trial; HAFT = Highest Average Field Trial

Following the review of all available data, MRLs as proposed in Table 1 are recommended to cover residues of spirotetramat. Residues in these crop/livestock 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 application rate for carrots and sugarbeets is within the current registered rates for various crops on the Movento 240 SC Insecticide label. No additional environmental risk associated with the use expansion is anticipated.

### Value Assessment

A scientific rationale supported control of aphids and whitefly in carrot and sugarbeet based on extrapolation from currently registered label claims against aphids and whiteflies on a wide variety of crops. In addition, 6 confirmatory trials conducted in Europe on several species of aphids on carrot and sugarbeet were provided and reviewed. While these trials tested formulations of spirotetramat other than Movento 240 SC Insecticide, they demonstrated >90% control of aphids and provide further evidence that Movento 240 SC Insecticide is expected to control aphids in carrot and sugarbeet. The rationale and confirmatory trials were sufficient to support the addition of control of aphids and whiteflies on sugarbeet and carrot at an application rate of 220-365 mL product per ha.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and is able to support the use of Movento 240 SC Insecticide on sugarbeet and carrot. In addition the Crop Groups were revised to CG12-09 and CG14-11 on the label.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
1913109	2009, Agricultural Handler Exposure Scenario Monograph: Open Cab Groundboom Application of Liquid Sprays, DACO: 5.3, 5.4
2644507	2014, Spirotetramat: magnitude of the residue on carrot, DACO: 7.4.1
2644508	2014, Magnitude of the Residue in/on Sugarbeet, DACO: 7.4.1
2644509	2014, Magnitude of the Residue in/on Sugarbeet Processed Commodities, DACO: 7.4.5
2644510	2016, Value Assessment of Movento 240 SC Insecticide - Label expansion to include carrot and sugarbeet -, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3(D), 10.3, 10.3. 1, 10.3.2, 10.3.2(B), 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
2662464	2016, Compilation of Trial Reports, DACO: 10.2.3
2662465	2016, Efficacy Summary Tables, DACO: 10.2.3.1
2662466	2016, Summary of Non-safety Adverse-effects observed following spirotetramat treatment on carrot, strawberry and sugarbeet., DACO: 10.3.2

ISSN: 1911-8082

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