



## Evaluation Report for Category B, Subcategory 5.0 Application

**Application Number:** 2009-4388  
**Application:** B.5.0 - New Import MRLs for Previously Assessed Active Ingredient  
**Product:** Lontrel T Herbicide  
**Registration Number:** 18315  
**Active ingredients (a.i.):** Clopyralid  
**PMRA Document Number :** 2214085

### Purpose of Application

The purpose of this application was to establish or revise maximum residue limits (MRLs) for clopyralid in/on several crops.

### Chemistry, Environmental and Value Assessment

Chemistry, environmental and value assessments were not required for this application.

### Health Assessments

Residue data in a variety of crops were assessed in support of the establishment or revision of MRLs for clopyralid in/on various crops commodities. Following the review of all data provided, MRLs for clopyralid in/on turnips, garden beets, sugar beets, spinach, Crop Subgroup 5A (Head and Stem Brassica Subgroup), mustard greens, Crop Group 12-09 (Stone Fruits), cranberry, corn (sweet, field and popcorn), barley, oats, wheat, rapeseed, flaxseed, mustard seeds, hops, spearmint and peppermint tops are being proposed. Residues of clopyralid in/on these commodities are not expected to pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

### Maximum Residue Limit(s)

Based on the maximum residues observed in commodities treated with clopyralid according to the US label directions, the MRLs to cover residues of clopyralid in/on various imported commodities will be established as shown in Table 1. MRLs apply to the raw agricultural commodities, as well as any processed commodities, except where separate MRLs are specified for the proposed fraction.

**TABLE 1. Summary of Field Trial Data Used to Establish Maximum Residue Limit(s) (MRLs)**

Commodity	Appli. Method/ Total Appli. Rate (g a.e./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL (ppm)
			Min	Max			
Turnip	Broadcast/210	Tops: 15 Roots: 30	Tops: 0.64 Roots:0.06	Tops: 3.2 Roots: 0.56	-	-	Tops: 4.0 Roots: 1.0
Garden Beet	Broadcast/210	30	Tops: 0.36 Roots:0.71	Tops: 2.8 Roots: 3.0	-	-	Tops: 3.0 Roots: 4.0
Sugar Beet	Broadcast/280	45	Roots: 0.093	Roots: 1.47	Molasses: 6.1	0.1 <sup>1</sup>	Sugar beet: 2.0 Molasses: 10
Spinach	Broadcast/210	21	0.14	3.8	-	-	5.0
Broccoli	Broadcast/210	30	0.07	1.2	-	1.0	2.0 <sup>2</sup> (Crop Subgroup 5A, Head and Stem Brassica)
Cauliflower	Broadcast/210		0.073	0.32	-	1.0	
Cabbage	Broadcast/210		0.097	0.52	-	1.0	
Mustard greens	Broadcast/210		30	0.48	4.4	-	
Cherry	Broadcast/560	30	<0.05	<0.05	-	-	0.5 (Crop Group 12- 09, Stone Fruits)
Peach	Broadcast/560	30	<0.05	0.35	-	-	
Plum	Broadcast/560	30	<0.02	0.41	Dried plum: 3.5	-	
Cranberry	Broadcast/560	50	0.88	0.505	-	0.1 <sup>1</sup>	4.0
Field corn	Broadcast/280	40	0.01	0.8	-	0.1 <sup>1</sup>	1.0
Sweet corn (K+CWHR), popcorn	Broadcast/280	30	<0.05	0.26	-	-	1.0
Barley	Broadcast/140	-	1.0	2.2	-	2.0	3.0
Oats	Broadcast/140	-	<0.1	<0.1	-	2.0	3.0
Wheat	Broadcast/140	-	0.31	2.0	-	2.0	3.0
Rapeseed (canola)	Broadcast/280	50	<0.05	1.86	-	0.1 <sup>1</sup> Flax seed: 0.2	3.0 <sup>3</sup> (Rapeseed (canola), Flaxseed and Mustard Seeds)
Hops	Broadcast/840	30	0.3	4.14	-	-	5.0
Spearmint Peppermint Tops	Broadcast/420	45	0.12	2.7	-	-	3.0

<sup>1</sup> Residues in this commodity are currently regulated under Subsection B.15.002(1) of the Food and Drugs Act and Regulations.

<sup>2</sup>The PMRL of 2.0 ppm for Crop Subgroup 5A will replace the current MRL of 1.0 ppm on the following commodities: Broccoli, Cabbage, Cauliflower, Chinese Broccoli, Chinese Mustard Cabbage, Kohlrabi, Napa Chinese Cabbages.

<sup>3</sup> The PMRL of 3.0 ppm for rapeseed and flax seed will replace the current residues in rapeseed covered under Subsection B.15.002(1) of the Food and Drugs Act and Regulations and the current MRL of 0.2 ppm in flax seed.

## Conclusion

Following the review of all data provided, MRLs for clopyralid in/on various imported commodities are recommended. Residues of clopyralid are not expected to pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

## References

PMRA Document Number	Reference
1815986	1989, A Residue Study of Clopyralid in Wheat and Barley, DACO: 7.4.1
1815987	1991, Stinger Herbicide to Popcorn- Residue Study to Provide Data for Tolerance and Registration, DACO: 7.4.1
1815989	1992, A Residue Study of Clopyralid in Corn Grain, Silage and Fodder, DACO: 7.4.1
1815991	1998, Magnitude of Residue of Clopyralid in Sugar Beet Roots and Tops after use of Stinger*, DACO: 7.4.1
1815993	1999, Magnitude of the Residue of Clopyralid in Sweet Corn, DACO: 7.4.1
1815994	2001, Clopyralid: Magnitude of the Residue on Greens (Mustard), DACO: 7.4.1
1815995	2001, Clopyralid: Magnitude of the Residue on Hops, DACO: 7.4.1
1815996	2001, Clopyralid: Magnitude of the Residue on Peach, DACO: 7.4.1
1815997	2001, Clopyralid: Magnitude of the Residue on Cherry, DACO: 7.4.1
1815998	2001, Clopyralid: Magnitude of the Residue on Plum, DACO: 7.4.1
1815999	2006, Clopyralid: Magnitude of the Residue on Peach, DACO: 7.4.1
1816000	2006, Clopyralid: Magnitude of the Residue on Plum, DACO: 7.4.1
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1816009	2001, Clopyralid: Magnitude of the Residue on Canola (Rapeseed), DACO: 7.4.1
1816010	2001, Clopyralid: Magnitude of the Residue on Beet (Garden), DACO: 7.4.1
1816012	2001, Clopyralid: Magnitude of the Residue on Cranberry, DACO: 7.4.1
1816015	2001, Clopyralid: Magnitude of the Residue on Turnip (Roots and Tops), DACO: 7.4.1
1816016	2007, Clopyralid: Magnitude of the Residue on Strawberry (annual), DACO: 7.4.1
1816022	2000, Clopyralid: Magnitude of the Residue on Strawberry (perennial), DACO: 7.4.1
1824392	2002, The Metabolism of [14C]- Clopyralid in Sugar Beet, DACO: 6.3
1824395	1996, Metabolism of 14C-clopyralid in Cabbage, DACO: 6.3
1824400	1994, Determination of Residues of Clopyralid and 2,4-D in Corn grain, Forage, Silage and Fodder by Capillary Gas Chromatography with Mass Selective Detection, DACO: 7.2.1
1824402	1980, Frozen Storage Stability of 3,6- Dichloropicolinic Acid Residues in Crop Samples, DACO: 7.3
1824406	1979, Residues of Dowco 290 and 2,4-D in Barley and Wheat following postemergence application of Lontrel 205 Herbicide by ground vs aerial sprayer, DACO: 7.4.1
1824407	1979, Residues of Dowco 290 and 2,4-D in Oats following postemergence application of Lontrel 205 Herbicide, DACO: 7.4.1
1824408	1988, Residues of Clopyralid in Field Corn Grain, Green Forage/Silage and Fodder, DACO: 7.4.1

<b>PMRA Document Number</b>	<b>Reference</b>
1824410	1991, Stinger Herbicide to Sweet Corn - Residue Study to Provide Data for Tolerance and Registration, DACO: 7.4.1
1831181	2003, Independent Laboratory Validation of Dow AgroSciences LLC GRM 00.19 - Determination of Residues of Clopyralid and Picloram in Canola, DACO: 7.2.3
1831183	2002, Independent Laboratory Validation of a Method for the Determination of Clopyralid Residues in Crops, DACO: 7.2.3
1831187	1994, Storage Stability of Clopyralid in Corn Grain, Meal and Oil, DACO: 7.3
1865499	2001, Clopyralid: Magnitude of the Residue on Spinach, DACO: 7.4.1
1831188	1996, Frozen Storage Stability of Clopyralid, 2,4-D in Corn Grain, Forage & Fodder, DACO: 7.3
1866443	1994, Determination of Residues of Clopyralid in Corn Processed Fractions, DACO: 7.4.5

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