

## Evaluation Report for Category B, Subcategory B.5.0 Application

**Application Number:** 2011-3459  
**Application:** New maximum residue limit for previously assessed technical grade active ingredient  
**Product:** Nufarm MCPA Technical Acid  
**Registration Number:** 19034  
**Active ingredients (a.i.):** MCPA (present as acid) (MAA)  
**PMRA Document Number:** 2291531

### Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for the active ingredient (4-chloro-2-methylphenoxy)acetic acid (MPCA) in/on the commodities for which the product is registered for use in Canada. MCPA is registered in Canada for the control of weeds on wheat, barley, rye, oats, flax, asparagus, corn, peas, legumes, pastures, roadside and non-cropland.

### Health Assessments

Residue data for MCPA on peas and flaxseed were submitted to support the establishment of maximum residue limits (MRLs) for MCPA in/on several commodities. Previously submitted residue data for MCPA on wheat, barley, field corn, flaxseeds and peas were also reassessed to support the establishment of MRLs. Supporting analytical methodology data were also reviewed. In addition, processing data on treated wheat and flaxseed were reassessed to determine the potential for concentration of residues of MCPA into processed commodities.

### Maximum Residue Limits

Based on residue data from field trials conducted according to label directions or at exaggerated rates, maximum residue limits (MRLs) to cover residues of MCPA in/on various crops and crop groups will be established as shown in Table 1. Residues of MCPA in processed commodities not listed in Table 1 are covered under the MRLs for the raw agricultural commodities (RACs).

<b>TABLE 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limits (MRLs) for MCPA.</b>						
<b>Commodity</b>	<b>Application Method/ Total Application Rate</b>	<b>PHI (days)</b>	<b>MCPA Residues (ppm)</b>		<b>Experimental Processing Factor</b>	<b>Recommended MRL (ppm)</b>
			<b>Min</b>	<b>Max</b>		
Wheat	Broadcast foliar/ 1.6-2.2 kg a.e./ha	43-98	<0.01	0.033	Wheat bran: 1.5x; No concentration observed in other processed commodities	0.03 (for wheat, barley, oats, rye); 0.04 (for wheat bran)
Barley	Broadcast foliar/ 0.8-0.9 kg a.e./ha	56-79	<0.01	<0.01		
Field corn grain	Broadcast foliar/ 0.8-0.9 kg a.i./ha	129-146	<0.01	<0.01	No expectation of residues	0.01
Sweet corn kernels with husks removed	Broadcast foliar/ 0.8-0.9 kg a.i./ha	63-69	<0.01	0.015	Not required	0.015
Flaxseeds	Broadcast foliar/ 0.9 kg a.i./ha	75-111	<0.01	<0.01	No expectation of residues	0.01
Peas (succulent shelled and edible-podded)	Broadcast foliar/ 0.4-0.5 kg a.i./ha	29-38	<0.01	<0.01	Not required	0.1*
Peas (dry)	Broadcast foliar/ 0.5 kg a.i./ha	60-118	<0.01	<0.01	Not required	

\* Field trial data have shown that MCPA residues may also result from MCPB applications on peas (re-evaluation decision, RVD2012-08, MPCB). Thus, an MRL of 0.1 ppm in/on dry and succulent peas is proposed to cover MCPA residues resulting from applications of MCPA or MCPB on pea plants.

Based on the anticipated dietary burden to livestock and the residue data provided, MRLs of 0.05 ppm in fat, meat and meat byproducts of cattle, goats, hogs, horses, poultry and sheep, and eggs, and 0.01 ppm in milk will be promulgated to cover residues of MCPA in these commodities.

### **Chemistry, Environmental and Value Assessments**

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

### **Conclusion**

Following the review, MRLs are recommended to cover residues of MCPA in/on cereals, flaxseeds, peas and livestock commodities. Residues of MCPA in these commodities at the proposed MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

## References

### PMRA

Number	Reference
2282188	2007, MCPA: Magnitude of the Residue on Pea (Reregistration), DACO: 7.4.1
2176826	2004, MCPA: Magnitude of the Residue on Flax (Re-registration), DACO: 7.4.5
2176825	2010, MCPA - Independent Laboratory Method Validation of ABC Labs Method No. 65308-M, Version 001, "A Validated Method for the Determination of MCPA Residues in Beef Tissues and Milk", DACO: 7.2.2

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