

Evaluation Report for Category B Subcategory 5.0 Application

Application Number: 2009-4726

Application: New MRL for previously assessed TGAI

Product: Acetamiprid Technical

Registration Number: 27125

Active ingredient (a.i.): Acetamiprid

PMRA Document Number English PDF: 1998868

Purpose of Application

The purpose of this application was to amend the maximum residue limit (MRL) for stone fruits and bushberries and to establish MRLs for caneberries, tree nuts including pistachios, bulb onions, green onions, cucurbits, edible-podded legume vegetables and succulent shelled peas and beans to cover residues of acetamiprid.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessment

Residue data for acetamiprid in cucumbers, muskmelons, summer squash, green beans, podded peas, lima beans, green peas, blackberries, raspberries, cherries, peaches, plums, almonds, pecans, bulb onions, and green onions were submitted to support the import of these commodities into Canada. Previously reviewed analytical methods and freezer storage stability data for plants were reassessed to support the residue trials.

Based on the maximum residues observed in crops treated according to US label directions, maximum residue limits (MRLs) to cover residues of acetamiprid will be proposed as shown in Table 1. Residues of acetamiprid in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs). Residues of acetamiprid in these crop commodities will not pose an unacceptable dietary risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

A value assessment was not required for this application.

Table 1 Summary of field trial and processing data used to establish maximum residue limits (MRLs)

Commodity	Application method/ Total application rate (g a.i./ha)	PHI (days)	Residues (ppm)		Currently established MRL (ppm)	Recommended MRL (ppm)
			Min	Max		
Blackberry	Foliar/broadcast 501-601	1-2	0.51	2.71	—	4.0 Caneberries (crop group 13-07A)
Raspberry	Foliar/broadcast 566	1	0.74	1.09	—	
Blueberry	Foliar/broadcast 564-597	1	0.08	0.69	—	1.6 Bushberries (crop group 13-07B)
Cherry	Foliar/broadcast 661-679	7	0.08	0.93	0.7 (also including apricots, nectarines)	1.2 Stone fruits (crop group 12-09)
Peach	Foliar/broadcast 660-672	7-8	0.09	0.57		
Plum	Foliar/broadcast 662-669	7	0.01	0.12	0.2 (also including plumcots and prune plums) 0.4 (dried plum prunes)	
Almond	Foliar/broadcast 799-806	14	<0.01	0.02	—	0.1 Tree nuts, including pistachios (crop group 14)
Pecan	Foliar/broadcast 795-812	14	<0.01	0.05	—	
Bulb onion	Foliar/broadcast 659-675	6-7	<0.01	0.02	—	0.02 Bulb onions (crop subgroup 3-07A)
Green onion	Foliar/broadcast 666-673	7	0.04	2.2	—	3.0 Green onions (crop subgroup 3-07B)

Commodity	Application method/ Total application rate (g a.i./ha)	PHI (days)	Residues (ppm)		Currently established MRL (ppm)	Recommended MRL(ppm)
			Min	Max		
Cucumber	Foliar/broadcast 556-569	0	0.02	0.09	—	0.5 Cucurbits (crop group 9)
Muskmelon	Foliar/broadcast 560-562	0	0.01	0.14	—	
Summer squash	Foliar/broadcast 562-569	0	0.01	0.22	—	
Succulent podded bean	Foliar/broadcast 335-355	7	<0.01	0.19	—	0.6 Edible-podded legume vegetables (crop subgroup 6A)
Succulent podded pea	Foliar/broadcast 342-346	7-8	0.07	0.28	—	
Succulent shelled bean	Foliar/broadcast 337-344	7	0.02	0.19	—	0.4 Succulent shelled peas and beans (crop subgroup 6B)
Succulent shelled pea	Foliar/broadcast 339-345	7-8	<0.01	0.03	—	

Conclusions

Following the review of all available data, MRLs of 1.2 ppm for stone fruits, 1.6 ppm for bushberries, 4.0 ppm for caneberries, 0.1 ppm for tree nuts including pistachios, 0.02 ppm for bulb onions, 3.0 ppm for green onions, 0.5 ppm for cucurbits, 0.6 ppm for edible-podded legume vegetables and 0.4 ppm for succulent shelled peas and beans will be proposed to cover residues of acetamiprid.

References

PMRA Document Number: 939072

Reference: 1999, NI-25 (acetamiprid): Freezer storage stability of acetamiprid residues in various raw agricultural commodities and processing fractions (plant matrices), Part 1 of 3, Data Numbering Code: 7.3

PMRA Document Number: 939073

Reference: 1999, NI-25 (acetamiprid): Freezer storage stability of acetamiprid residues in various raw agricultural commodities and processing fractions (plant matrices), Part 2 of 3, Data Numbering Code: 7.3

PMRA Document Number: 939074

Reference: 1999, NI-25 (acetamiprid): Freezer storage stability of acetamiprid residues in various raw agricultural commodities and processing fractions (plant matrices), Part 3 of 3, Data Numbering Code: 7.3

PMRA Document Number: 939163

Reference: 1999, Methods for the analysis of acetamiprid (NI-25) in plants and plant processed fractions [Version 2: Fruit (non-citrus) and vegetable crops], Data Numbering Code: 7.2.1

PMRA Document Number: 939164

Reference: 1999, Methods for the analysis of acetamiprid (NI-25) in plants and plant processed fractions [Version 3: Citrus], Data Numbering Code: 7.2.1

PMRA Document Number: 939168

Reference: 1998, Validation of residue analytical method of insecticide acetamiprid (NI-25) in crops - parent method- (Nippon report no. EC-521) in/on various agricultural crop substrates, Part 1 of 2, Data Numbering Code: 7.2.2

PMRA Document Number: 939169

Reference: 1998, Validation of residue analytical method of insecticide acetamiprid (NI-25) in crops - parent method - (Nippon report no. EC-521) in/on various agricultural crop substrates, Part 2 of 2, Data Numbering Code: 7.2.2

PMRA Document Number: 939170

Reference: 1998, Independent laboratory validation of "Methods for the analysis of acetamiprid (NI-25) in plants and plant processed fractions [Version 2: Fruit (non-citrus) and vegetable crops]", Data Numbering Code: 7.2.3

PMRA Document Number: 939171

Reference: 1999, Independent laboratory validation of " Methods for the analysis of acetamiprid (NI-25) in plants and plant processed fractions [Version 3: Citrus]", Data Numbering Code: 7.2.3

PMRA Document Number: 1780885

Reference: 2003, Preliminary LC/MS/MS analytical method for determination of Assail™ 70WP Insecticide (acetamiprid) in crop matrices, Data Numbering Code: 7.2.1

PMRA Document Number: 1826095

Reference: 2005, Assail 70 WP Insecticide field residue study in berry crop group, Data Numbering Code: 7.4.1

PMRA Document Number: 1826096

Reference: 2007, Assail™ Insecticide field residue study in berry crop group, Data Numbering Code: 7.4.1

PMRA Document Number: 1826098

Reference: 2004, Assail 70 WP Insecticide field residue study in stone fruit crop group, Data Numbering Code: 7.4.1

PMRA Document Number: 1826105

Reference: 2004, Assail 70 WP Insecticide field residue study in tree nut crop group, Data Numbering Code: 7.4.1

PMRA Document Number: 1826106

Reference: 2005, Assail 70 WP Insecticide field residue study in onion crop group, Data Numbering Code: 7.4.1

PMRA Document Number: 1826107

Reference: 2005, Assail 70 WP Insecticide field residue study in legume crop group, Data Numbering Code: 7.4.1

PMRA Document Number: 1826110

Reference: 2004, Assail 70 WP Insecticide field residue study in cucurbit crop group, Data Numbering Code: 7.4.1

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