

## Evaluation Report for Category B, Subcategory 5.0 Application

**Application Number:** 2016-4118  
**Application:** New MRL for previously assessed TGAI  
**Product:** Bay NTN 33893 Technical Insecticide  
**Registration Number:** 24468  
**Active ingredients (a.i.):** Imidacloprid  
**PMRA Document Number:** 2805207

### Purpose of Application

The purpose of this application was to establish import maximum residue limits (MRLs) on imidacloprid and its metabolites in/on bananas, pomegranates, coffee, olives and tea.

### Chemistry, Environmental and Value Assessments

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

### Health Assessment

Residue data for imidacloprid in bananas, pomegranates, coffee, olives and tea were submitted to support the MRLs on these imported crops. In addition, processing studies in treated coffee beans, olives and tea were reviewed to determine the potential for concentration of residues of imidacloprid into processed commodities.

### Maximum Residue Limit(s)

The recommendation for MRLs for imidacloprid was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of imidacloprid and its metabolites containing the 6-chloropyridinyl moiety in/on crops and processed commodities are proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs).

<b>TABLE 1 Summary of Field Trial and Processing Data Used to Support Maximum Residue Limit(s) (MRLs)</b>							
Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAF T	HAF T			
Bananas	Foliar Application/ 549-583	0	0.12	0.52	Not required	-	1.5

<b>TABLE 1 Summary of Field Trial and Processing Data Used to Support Maximum Residue Limit(s) (MRLs)</b>							
<b>Commodity</b>	<b>Application Method/</b>	<b>PHI</b>	<b>Residues (ppm)</b>		<b>Experimental</b>	<b>Currently</b>	<b>Recommended</b>
Pomegranates	Foliar Application/ 611-684	7	0.42	0.51	Not required	-	1.0
Green coffee beans	Foliar Application/ 562-566	6-7	0.182	0.473	Instant coffee (1.3X); Roasted beans (0.43X)	-	1.0
Olives	Foliar Application/ 100	7-8	<0.05	1.1	Oil (0.23X)	-	2.0
Tea (dried leaves)	Foliar Application/ 400	7	2.0	28	Instant tea (0.25X); Infusion tea (<0.1X)	-	50

LAFT = 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 imidacloprid. Residues 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.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the Bay NTN 33893 Technical Insecticide, and has found the information sufficient to add new MRLs for the imported commodities mentioned above.

## References

PMRA#	References
2664735	2013, Storage stability of imidacloprid and its 5-Hydroxy and olefine metabolite in/on plant matrices for 36 Months, DACO 7.3
2664740	2009, Determination of the residues of imidacloprid in/on olive after spraying of Confidor (200 OD) in the field in Spain, Portugal and Italy, DACO 7.4.1
2664741	2011, Determination of the residues of imidacloprid in/on olive after spraying of Imidacloprid OD 200 in the field in Greece, Italy, Portugal and Spain, DACO 7.4.1
2664745	2005, IMIDACLOPRID: magnitude of the residue on banana, DACO 7.2.1,7.4.1
2664749	2005, IMIDACLOPRID: magnitude of the residue on pomegranate, DACO 7.2.1,7.4.1
2664750	2005. IMIDACLOPRID: magnitude of the residue on coffee, DACO 7.2.1,7.4.1,7.4.5
2664751	2015. Determination of Residues of Imidacloprid and its Metabolites in Tea following one application of Imidacloprid WG 70A W in India during 2014, DACO 7.4.1, 7.4.5
2664752	2003, Determination of Residues of Imidacloprid in/on Olive and Olive Processing Products (Washed Fruit, Washing Water, Wet Press Cake, Separation Water, Crude Oil, Preclarified Crude Oil, Neutralised Crude Oil and Refined Oil) Following Spray Application of Confidor 200 SL to Olive Trees in Greece and Portugal, DACO 7.4.1, 7.4.5
2664753	2002, Determination of Residues of Imidacloprid in/on Olive and Olive Processing Products (Separation Water, Washings, Wet Press Cake, Crude Oil, Neutralised Crude Oil, Preclarified Crude Oil, Refined Oil, and Washed Fruit) Following Spray Application of Confidor 200 SL in the Field in Spain, Italy and Portugal, DACO 7.4.1, 7.4.5

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