



## Evaluation Report for Category B, Subcategory 5.0 Application

**Application Number:** 2016-7560  
**Application:** New maximum residue limit for previously assessed technical grade active ingredient  
**Product:** Technical Flonicamid Insecticide  
**Registration Number:** 29795  
**Active ingredient (a.i.):** Flonicamid  
**PMRA Document Number :** 2815724

### Purpose of Application

The purpose of this application was to establish a maximum residue limit (MRL) for flonicamid in/on imported citrus fruits (Crop Group 10 Revised).

### Chemistry, Environmental and Value Assessments

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

### Health Assessments

Toxicology and occupational exposure assessments were not required for this application.

Residue data for flonicamid in oranges, grapefruits and lemons were submitted to support the maximum residue limit on imported citrus fruits (Crop Group 10 Revised). In addition, a processing study in treated oranges was reviewed to determine the potential for concentration of residues of flonicamid into processed commodities.

The recommendation for a maximum residue limit (MRL) for flonicamid was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). An MRL to cover residues of flonicamid and the metabolites TNFA, TNFA-AM and TFNG, expressed as parent equivalents, in/on crops and processed commodities is proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRL for the raw agricultural commodities (RACs).

| Commodity | Application Method/<br>Total Application Rate<br>(g a.i./ha) | PHI<br>(days) | Total Residues<br>(ppm) |      | Experimental Processing Factor | Currently Established MRL<br>(ppm) | Recommended MRL*<br>(ppm) |
|-----------|--|---------------|-------------------------|------|--------------------------------|------------------------------------|---------------------------|
|           |  |               | LAFT                    | HAFT |                                |                                    |                           |

| <b>Commodity</b> | <b>Application Method/</b>     | <b>PHI (days)</b> | <b>Total Residues (ppm)</b> |       | <b>Experimental Processing</b>   | <b>Currently Established</b> | <b>Recommended MRL*</b> |
|------------------|--------------------------------|-------------------|-----------------------------|-------|----------------------------------|------------------------------|-------------------------|
| Oranges          | Foliar Application/<br>285-313 | 0                 | 0.081                       | 0.363 | Does not concentrate in oranges. | -                            | 1.5                     |
| Grapefruit       | Foliar Application/<br>281-314 | 0                 | 0.049                       | 0.164 | Not applicable                   |                              |                         |
| Lemons           | Foliar Application/<br>284-299 | 0                 | 0.159                       | 0.813 | Not applicable                   |                              |                         |

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

\*For Crop Group 10R

Following the review of all available data, the MRL as proposed in Table 1 is recommended to cover total residues of flonicamid. Total residues in these crop commodities at the proposed MRL 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 MRL requested, and has found the information sufficient to establish an MRL for flonicamid in/on imported citrus fruits (Crop Group 10 Revised).

### **References**

|                             |                   |
|-----------------------------|-------------------|
| <b>PMRA Document Number</b> | <b>References</b> |
|-----------------------------|-------------------|

|         |   |
|---------|---|
| 2704842 | 2015, Magnitude of Residues of Flonicamid on Citrus – USA in 2014, DACO: 7.4.1, 7.4.2 |
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