

## Evaluation Report for Category B, Subcategory 3.11, 3.13, 3.3, 3.4 Application

**Application Number:** 2014-5391  
**Application:** Changes to Product Labels – New Pests, Precautions, Application Number or Frequency and Application Method  
**Product:** MIMIC 240 LV Forestry Insecticide  
**Registration Number:** 24502  
**Active ingredients (a.i.):** Tebufenozide  
**PMRA Document Number :** 2495352

### Purpose of Application

The purpose of this application was to amend the product label for MIMIC 240 LV Forestry Insecticide to limit applications of the product to only once per year, to remove the buffer zones around bodies of water, to modify the environmental hazard statements, to revise the PPE for aerial applicators and to add a new pest (forest tent caterpillar).

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The amendments have no impact on the toxicological profile of MIMIC 240 LV Forestry Insecticide.

The occupational exposure for tebufenozide from the use of MIMIC 240 LV Forestry Insecticide in forests and woodlands with the label amendments were assessed. No health risks of concern are expected provided workers follow the label directions and wear the personal protective equipment identified on the label.

### Environmental Assessment

In support of the label changes, the registrant supplied additional data on aerial drift deposition in forestry use scenarios and foreign assessments on the active ingredient, tebufenozide for forestry use. The Pest Management Regulatory Agency determined that the single application of MIMIC 240 LV Forestry Insecticide at 70 g a.i./ha per year does not pose an unacceptable risk to sensitive aquatic invertebrates in forestry settings. Spray buffer zones are therefore not required for this forestry use. Environmental hazard and drift mitigation label statements were amended.

### Value Assessment

Data from one trial was submitted to support the addition of the forest tent caterpillar to the MIMIC 240 LV Forestry Insecticide label. Aerial application equipment sprayed plots with MIMIC 240 LV Forestry Insecticide applied at 290 mL/ha (69.6 g a.i./ha). Post-spray defoliation of trembling aspen in treated plots was reported between 5-17% compared to 85% in unsprayed control plots. September 2014 egg mass counts in unsprayed control plots were more than double those in treated plots. The data submitted showed that one application of MIMIC 240 LV Forestry Insecticide reduced trembling aspen defoliation and forest tent caterpillar populations.

A rationale was provided to support one application per year of MIMIC 240 LV Forestry Insecticide for all pest claims. By determining the optimum application timing with forecasting tools (e.g., peak larval hatch and host development) and by using current application techniques (e.g., GIS mapping, GPS navigation, advanced spray atomization and deposition), accurate placement and uniform coverage should be achieved. One application of MIMIC 240 LV Forestry Insecticide was effective at controlling forest tent caterpillar. It is expected that one application of MIMIC 240 LV Forestry Insecticide would be effective for all pest claims (Western and Eastern spruce budworm, jack pine budworm, hemlock looper, Douglas fir tussock moth and white marked tussock moth) using the new techniques to ensure adequate coverage.

The value information submitted supports the amendments to add forest tent caterpillar to the MIMIC 240 LV Forestry Insecticide label and to limit application of the product to only once per year in conifer forests and woodlots.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the amendments to the MIMIC 240 LV Forestry Insecticide product label and has found the information sufficient to support the amendments.

## **References**

| PMRA Document Number | References   |
|----------------------|--|
| 2475435              | 2014, Results of the 2014 MIMIC 240 LV Efficacy Trial Against Forest Tent Caterpillar, DACO: 10.2.3.4(D)   |
| 2494598              | 2014, Request for an Amendment to the MIMIC 240 LV Forestry Insecticide Label (PCP# 24502), DACO: 10.2   |
| 2493015              | 2015-01-19, Forest tent caterpillar Natural Resources Canada, <a href="http://www.nrcan.gc.ca/forests/insects-diseases/13379">http://www.nrcan.gc.ca/forests/insects-diseases/13379</a> , DACO: 10.6 |

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