



## **Category B**

### **Evaluation Report for Category B, Subcategory 3.11 Application**

**Application Number:** 2009-1071  
**Application:** 3.11 New or changes to product labels – new pests  
**Product:** Titan ST Insecticide  
**Registration Number:** 27449  
**Active ingredients (a.i.):** clothianidin  
**PMRA Document Number:** 1798147

#### **Background**

Titan ST Insecticide contains 48% clothianidin and is for use as a potato seed piece treatment to suppress the damage caused by wireworm at a rate of 20.8 mL product/100 kg seed. The product was first registered in December 2003.

#### **Purpose of Application**

The purpose of this application is to add two new pests of potato, potato flea beetle and aphids, to the label of Titan ST Insecticide. The seed treatment rate range for these pests is 10.4-20.8 mL product/100 kg seed (6.25-12.5 g a.i./100 kg seed). Refer to the product label for specific details of the uses, precautions, and restrictions.

#### **Chemistry Assessment**

No chemistry assessment was required.

#### **Health Assessments**

No health assessment was required.

#### **Environmental Assessment**

No environmental assessment was required.

#### **Value Assessment**

Five trials evaluated the effect of clothianidin on three species of aphids (buckthorn, potato, and green peach). Pest pressure was low in several of the trials and evaluation occurred at long periods after planting (i.e., 46-96 days). Trials demonstrated that the range of 6.25-12.5 g a.i./100 kg consistently provided >80% control of aphids, which was more consistent than 3.25 g a.i./100 kg seed.

Four trials evaluated the number of potato flea beetle holes in the fourth terminal leaf. Data demonstrated high levels of control, >95%, at 6.25-12.5 g a.i./100 kg seed when assessments occurred between 41 and 53 days after planting. A lower rate, 3.12 g a.i./100 kg seed, was less effective during the same time period. Assessments that occurred from 76-86 days after planting showed reduced efficacy at 6.25-12.5 g a.i./100 kg seed, indicating suppression of the summer generation of potato flea beetle.

Titan ST Insecticide is already registered as a seed piece treatment on potato; therefore, no adverse effects were anticipated due to the addition new pests.

**Conclusion**

PMRA has completed an evaluation of Titan ST Insecticide and has found the information sufficient to support the addition of aphids and potato flea beetle on potato as a seed piece treatment.

## References

### Applicant Supplied Data:

- 1736649 2007, TITAN INSECTICIDE (600 g a.i./L Clothianidin) FOR CONTROL OF INSECTS IN POTATOES, DACO:  
10.1,10.2.2,10.2.3.1,10.2.3.3(C),10.3.1,10.3.2(B)
- 1736650 2007, TITAN INSECTICIDE (600 g a.i./L Clothianidin) FOR CONTROL OF INSECTS IN POTATOES, DACO:  
10.1,10.2.2,10.2.3.1,10.2.3.3(C),10.3.1,10.3.2(B)
- 1736651 2007, TITAN INSECTICIDE (600 g a.i./L Clothianidin) FOR CONTROL OF INSECTS IN POTATOES, DACO:  
10.1,10.2.2,10.2.3.1,10.2.3.3(C),10.3.1,10.3.2(B)

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