



## Evaluation Report for Category B, Subcategory 2.3 and 2.4 Application

**Application Number:** 2009-5363  
**Application:** Changes to end-use product chemistry – Identity and proportion of  
formulants  
**Product:** Nipsit Inside 600 Insecticide  
**Registration Number:** 28975  
**Active ingredients (a.i.):** Clothianidin  
**PMRA Document Number:** 2124104

### Background

Nipsit Inside 600 (600 g/L clothianidin; Registration number 28975) is a liquid formulation product. It is a Group 4 systemic insecticide seed treatment for use on canola, rapeseed, corn and potatoes for the control/suppression of certain insects including flea beetles, corn rootworm, black cutworm, seedcorn maggot, wireworm, European chafer, May/June beetle and Japanese beetle in commercial seed treatment facilities with closed transfer only. The product is currently conditionally registered pending the submission of environmental field studies, which were triggered by application 2009-3204.

### Purpose of Application

The purpose of this application was to add an alternate formulation option for Nipsit Inside 600 Insecticide.

### Chemistry Assessment

Nipsit Inside 600 Insecticide is a liquid containing the active ingredient clothianidin at a nominal concentration of 600 g/L. This product has a density of 1.27 – 1.29 g/mL and pH of 5.7 for a 1 % solution in water. With the exception of the storage stability and corrosion characteristics, the chemistry requirements for Nipsit Inside 600 Insecticide have been completed.

### Health Assessments

A health assessment was not required for this application.

## **Environmental Assessment**

The changes in formulation are expected to increase the adherence of the active ingredient to the seed. This may help reduce the formation of pesticide dust that could lead to non-target exposure. This increased adherence to the seed may affect environmental fate by influencing leaching and translocation of the active ingredient, but is assumed to play a minor role compared to other parameters such as application rate, irrigation, crop species, and/or soil type.

## **Value Assessment**

Data submitted from three small plot field trials conducted in 2009 in Manitoba and Saskatchewan demonstrated that a new formulation of Nipsit Inside 600 Insecticide is equivalent to the registered formulations of Nipsit Inside 600 Insecticide. No negative impacts on efficacy or crop tolerance are expected with the new formulation. Therefore, the addition of the new formulation option for Nipsit Inside 600 Insecticide was supported from a value and sustainability perspective.

## **Conclusion**

The PMRA has completed an assessment of available information for Nipsit Inside 600 Insecticide and has found the information sufficient to add an alternate formulation option for Nipsit Inside 600 Insecticide.

Nipsit Inside 600 Insecticide will remain conditionally registered. In addition to the outstanding environmental data, the requirement for storage stability and corrosion characteristics data has been added to the remaining data requirements.

## References

PMRA Document Number	Reference
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2101465	2011, Value Summary for NipsIt Inside 600 Insecticide (Reg. No. 28975) Efficacy of Alternate Formulation VC-1764, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.2, 10.3.1, 10.4, 10.5.1, 10.5.2, 10.5.3, 10.5.4
2101466	2011, MS Excel Spreadsheet - NipsIt Inside 600 Insecticide (Reg. No. 28975) VC-1764 Formulation Bridging Efficacy Data, DACO: 10.2.3.3
2085434	2011, Product Identity and Composition of V-10170 5 FS Insecticide (VC-1764 Formulation), Description of Materials Used to Produce the Product V-10170 5 FS Insecticide (VC-1764 Formulation), Description of Production Process for V- 10 170 5 FS Insecticide (VC- 1764 Formulation), Description of Formulation Process for V- 10 170 5 FS Insecticide (VC- 1764 Formulation), Discussion of Formation of Impurities for V- 10 170 5 FS Insecticide (VC- 1764 Formulation), Preliminary Analysis of V- 10 170 5 FS Insecticide (VC- 1764 Formulation), Certified Limits for V-10 170 5 FS Insecticide (VC-1764 Formulation), Enforcement Analytical Method for V-10 170 5 FS Insecticide (VC- 1764 Formulation), Submittal of Samples for V-10 170 5 FS Insecticide (VC- 1764 Formulation), DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4.1, 3.4.2
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ISSN: 1911-8082

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