

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 2.5 (C.8.1) Application

Application Number: 2010-4514
Application: B.2.1 Product Chemistry – Guarantee
B.2.3 Product Chemistry – Identity of Formulants
B.2.4 Product Chemistry – Proportion of Formulants
B.2.5 Product Chemistry – Formulation Type
Product: Entrust SC Insecticide
Registration Number: 30382
Active ingredients (a.i.): Spinosad (SPI)
PMRA Document Number English : 2132993

Purpose of Application

The applicant requested to register Entrust SC Insecticide containing the active ingredient spinosad. It is similar to the currently registered product Entrust 80W Naturalyte Insect Control Product (Registration number 27825) and would have the identical use pattern and application rate. Therefore, the proposed uses were on terrestrial food crops, ornamentals outdoor and turf at rates ranging from 48 g a.i./ha to 523.4 g a.i./ha. Spinosad is approved for use in organic production.

Chemistry Assessment

Entrust SC Insecticide is formulated as a suspension containing spinosad at a nominal concentration of 240 g/L. The end-use product has a density between 1.03-1.12 g/mL and a pH between 7.5-11. With the exception of the storage stability study that is scheduled to commence in February 2012, the chemistry requirements for Entrust SC Insecticide are complete.

Health Assessments

Entrust SC Insecticide is of low toxicity to rats via the oral ($LD_{50} \geq 5000$ mg/kg), dermal ($LD_{50} \geq 5000$ mg/kg), and inhalation routes ($LC_{50} > 4.94$ mg/L). It is non-irritating to the eye and skin of rabbits. It is not a dermal sensitizer in guinea pigs.

The applicant has provided the proposed label for a new end-use product Entrust SC Insecticide (guarantee 240 g spinosad/L). The proposed directions for use, including target pests, crops, application rates, RTI, and PHI, are based on the registered end-use product Entrust 80 W Naturalyte Insect Control Product (guarantee of 80% spinosad). No new residue data were submitted, however previously reviewed data were available to support and validate the proposed registration for Entrust SC Insecticide.

From a food residue exposure perspective, no changes in the magnitude of the residues in food and feed crops are expected; therefore, no increase in dietary exposure is anticipated. Residues of spinosad will continue to be covered under the established Canadian MRLs.

A human health exposure review was completed for Entrust SC Insecticide to support use on terrestrial food crops, turf, and outdoor ornamentals. The use of this product does not result in increased exposure to mixers/loaders, applicators, post-application workers, to bystanders over currently registered uses.

Environmental Assessment

Entrust SC Insecticide is similar to the currently registered product Entrust 80W Naturalyte Insect Control Product and will have the identical use pattern and application rate. The differences are to the guarantee, formulation type and identity and proportion of formulants. There are no formulants of concern. Therefore, the environmental review completed for Entrust 80W Naturalyte Insect Control Product covers the exposure and risk to the environment for Entrust SC Insecticide and the environmental risk is not expected to increase.

Value Assessment

Use of Entrust SC Insecticide can be accepted based on extrapolation from registered uses of Entrust 80W Naturalyte Insect Control Product for control of the same pests on the same crops at the same application rates and use patterns.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Entrust SC Insecticide, and has found the information sufficient to register this product.

References

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- 1958652 2009, Analytical Method and Validation for the Determination of Spinosad in GF-2419 Formulation, DACO: 3.4.1 CBI
- 1958653 2009, Determination of Color, Odor, Physical State, Oxidizing and Reducing Action, Flashpoint, pH, Viscosity and Density of GF-2419, DACO: 3.5,3.5.11,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8,3.5.9 CBI
- 1995978 2010, Accelerated Storage Stability of GF-2419, DACO: 3.5.10 CBI
- 1995979 2010, Chemical and Physical Properties (rational), DACO: 3.5.10,3.5.12,3.5.13,3.5.14,3.5.15 CBI

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