

# **Evaluation Report for Category B, Subcategory 2.3, 2.4, 2.5 Application**

**Application Number:** 2016-3251

**Application:** New End-Use Product Chemistry-Identity and Proportion of

Formulants, Formulation Type

**Product:** Force EVO Insecticide

**Registration Number:** 32837 **Active ingredients (a.i.):** Tefluthrin **PMRA Document Number:** 2779968

# **Purpose of Application**

The purpose of this application was to register a new end-use product, Force EVO Insecticide, containing tefluthrin for control of northern and western corn rootworm, black cutworm, wireworms, and seedcorn maggot in corn (field, sweet, pop, seed) as a soil application (soil surface band and in-furrow).

# **Chemistry Assessment**

Force EVO Insecticide is formulated as an emulsifiable concentrate containing tefluthrin at a nominal concentration of 250 g/L. This end-use product has a density of 1.033 g/cm<sup>3</sup> and pH of 3.7. The required chemistry data for Force EVO Insecticide have been provided, reviewed and found to be acceptable.

#### **Health Assessments**

Force EVO Insecticide is considered to be highly acutely toxic via the oral, dermal and inhalation routes of exposure, corrosive to eyes and skin, and a potential dermal sensitizer.

Force EVO Insecticide as an emulsifiable concentrate is a new formulation for this active ingredient for application to corn fields to control various insects. A chemical handler quantitative risk assessment was conducted and there were no risks to human health associated with this new end-use product, provided appropriate engineering controls are complied with.

The use pattern of Force EVO Insecticide was determined to be equivalent to that of a registered end-use product. Therefore, the previously reviewed data were reassessed in the framework of the current submission and it was confirmed that the use of Force EVO Insecticide is not expected to result in an increase in the magnitude of tefluthrin residues in/on the treated crops. Therefore, the use of Force EVO Insecticide will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

#### **Environmental Assessment**

The end-use product Force EVO Insecticide containing the insecticide,



tefluthrin, is not expected to pose an increased environmental risk over the precedent registered product.

# **Value Assessment**

The reviewed value information included six bridging trials and a rationale which stated that, as Force EVO Insecticide has an identical guarantee and use pattern as a registered microencapsulated suspension product, a similar level of control of these pests is expected with the emulsifiable concentrate formulation. This rationale was considered acceptable. The value of Force EVO Insecticide was supported for control northern and western corn rootworm, black cutworm, wireworms, and seedcorn maggot in corn (field, sweet, pop, and seed) when applied as a soil application (soil surface band or in-furrow) at a rate of 4.5 mL product per 100 m row (1.12 g a.i. per 100 m row).

### Conclusion

The PMRA has conducted a review of the available information in support of this application and has determined that registration of Force EVO Insecticide can be supported.

#### References

PMRA No.	Title
2654242	2016, A21581B - Document MIII, Section 1 Product Chemistry Volume, DACO:
	3.1.2,3.1.3,3.1.4,3.2.2,3.2.3,3.3.1,3.3.2,3.5.1,3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5
	.15,3.5.2,3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.8,3.5.9,3.7 CBI
2654243	2016, A21581B - Document MIII, Section 1 Product Chemistry Volume, DACO:
	3.1.2,3.1.3,3.1.4,3.2.2,3.2.3,3.3.1,3.3.2,3.5.1,3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5
	.15,3.5.2,3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.8,3.5.9,3.7 CBI
2654244	2016, A21581B - Document H Product Chemistry Volume, DACO: 3.2.1 CBI
2654245	2015, A21581B - SF-846/1- Determination of ICI993 by GC Analytical Method,
	DACO: 3.4.1 CBI
2654246	2016, A21581B - Document MIII Section 2 Product Chemistry Volume, DACO:
	3.4.1 CBI
2654247	2016, A21581B - Document MIII Section 2 Product Chemistry Volume, DACO:
	3.4.1 CBI
2654249	2016, A21581B - Physico-Chemical Studies of the Formulation Product
	Chemistry Volume, DACO: 3.5.1 CBI
2654250	2016, Tefluthrin EC (A21581B) - Waiver Request, DACO: 3.3,4.6 CBI
2654251	2016, Tefluthrin EC (A21581B) - In Vitro Eye Irritation Test in Isolated Chicken
	Eyes Final Report, DACO: 4.6.4
2654252	2016, Tefluthrin EC (A21581B) - In Vitro Ocular Irritation Assay Using the
	EpiOcular Human Cell Construct Final Report, DACO: 4.6.4
2654341	2016, Efficacy Rationale (Final), DACO: 10.1, 10.3.1, 10.3.2
2461947	2014, Efficacy Summary Table, DACO: 10.2.3.1
2461948	2008, COR01-01 - Evaluate Efficacy of Force 250CS (A14974A) for Corn
	Rootworm Control in Field Corn, DACO: 10.2.3.3
2461949	2008, COR02-01 - Evaluate Efficacy of Force 250CS (A14974A) for Corn

	Rootworm Control in Field Corn, DACO: 10.2.3.3
2461950	2008, COR03-01 - Evaluate Efficacy of Force 250CS (A14974A) for Corn
	Rootworm Control in Field Corn, DACO: 10.2.3.3
2461951	2008, COR04-01 - Evaluate Efficacy of Force 250CS (A14974A) for Corn
	Rootworm Control in Field Corn, DACO: 10.2.3.3
2461952	2008, COR05-01 - Evaluate Efficacy of Force 250CS (A14974A) for Corn
	Rootworm Control in Field Corn, DACO: 10.2.3.3
2461953	2014, COR06-01 - Evaluate New Force Formulations for Controlling Corn
	Rootworm, 2014, DACO: 10.2.3.3

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