

Evaluation Report for Category B, Subcategory X Application

Application Number: 2014-4425
Application: New EP Product Chemistry –Guarantee, Identity of Formulants, Proportion of Formulants, Formulation Type
New Product Labels-New Site
Product: Force 15CS Insecticide
Registration Number: 32083
Active ingredients (a.i.): tefluthrin
PMRA Document Number : 2578777

Purpose of Application

The purpose of this application was to register the end-use product, Force 15CS Insecticide containing the active ingredient tefluthrin as a microcapsule suspension, for the control of various insects in corn.

Chemistry Assessment

Force 15CS Insecticide is formulated as a microcapsule suspension containing tefluthrin at a nominal concentration of 150 g/L. This end-use product has a density of 1.02 g/mL and pH of 8.4. The chemistry requirements for this product have been fulfilled.

Health Assessments

Force 25CS Insecticide is highly acutely toxic via the oral route, of low acute toxicity via the dermal route, slightly acutely toxic via the inhalation route, minimally irritating to the eyes, slightly irritating to the skin, and is a potential skin sensitizer.

No new residue data for tefluthrin were submitted to support the registration of Force 15CS Insecticide. Previously reviewed residue data from field trials conducted in/on field and sweet corn were reassessed in the framework of this petition. In addition, a processing study in treated field and sweet corn was also reassessed to determine the potential for concentration of residues of tefluthrin into processed commodities.

Maximum Residue Limit(s)

As the use patterns of Force 15CS Insecticide does not differ from the registered use pattern of Force 3.0G Insecticide, the current established tefluthrin maximum residue limit (MRL) of 0.06 ppm on field corn and sweet corn kernels plus cob with husks removed will be extended to popcorn grain.

Residues of tefluthrin and the metabolite Ia, in corn commodities, at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants,

children, adults and seniors.

The occupational exposure and risk from Force 15CS Insecticide were assessed. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

The maximum application rate of 147 g a.i./ha per year is equivalent to the maximum registered rate of 150 g a.i./ha per. The uses and methods of application are identical to a registered precedent product. Therefore, no additional environmental risk is anticipated and no additional environmental data are required.

The formulation contains Proxel GXL as a preservative at 0.017% w/w, which is a TSMP Track 1 substance. The required label statement is present on the label and no further regulatory action is required at the present time.

Value Assessment

Six trials were provided to demonstrate the agronomic equivalence of two formulations of tefluthrin, a granular and a microcapsule suspension version, when applied as surface band or in-furrow application. The data provided from five trials conducted in major corn producing regions of the US and one trial conducted in Southern Ontario were sufficient to establish agronomic equivalence between the two formulations.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Force 15CS Insecticide, and has found the information sufficient to register this new end-use product.

References

PMRA Document Number	Reference
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2461841	2014, Impurities of Human Health and Environmental Concern, DACO: 3.4.2 CBI
2462004	2014, Identification, DACO: 3.1,3.1.1,3.1.2,3.1.3,3.1.4 CBI
2462005	2014, Starting Materials and Certification of Limits, DACO: 3.2.1,3.3.1 CBI
2462008	2013, Analytical Methodology SF-689/1 - Determination of ICI993 (151.26) in A20930A and Validation, DACO: 3.4.1 CBI
2462010	2014, Chemical and Physical Properties, DACO: 3.5,3.5.1,3.5.10,3.5.11,3.5.12, 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 CBI
2516519	2012, Enforcement Analytical Method - Certificate of Analysis, DACO: 3.4.1 CBI

- 2462012 2014, Tefluthrin CS (A20930A) - Acute Oral Toxicity Up-and-Down Procedure in Rats, DACO: 4.6.1
- 2462013 2014, Tefluthrin CS (A20930A) - Acute Dermal Toxicity in Rats, DACO: 4.6.2
- 2462014 2014, Tefluthrin CS (A20930A) - Acute Inhalation Toxicity in Rats, DACO: 4.6.3
- 2462015 2014, Tefluthrin CS (A20930A) - Primary Eye Irritation in Rabbits, DACO: 4.6.4
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- 2462017 2014, Tefluthrin CS (A20930A) - Local Lymph Node Assay (LLNA) in Mice, DACO: 4.6.6
- 2661946 2014, Value Summary – Force 25CS, Force 15CS and Force 10CS for use on Corn, DACO: 10.1, 10.2, 10.2.2, 10.2.3.3, 10.3.1, 10.3.2, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
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