



Evaluation Report for Category B.2.1, B.2.6, B.3.12 Application

Application Number: 2009-3181
Application: Change in Guarantee, New combination of Active Ingredients
Product: Trilogy SC
Registration Number: 29870
Active ingredients (a.i.): Iprodione, Trifloxystrobin (CGA 279202), Triticonazole, IPD, TFY, TRT
PMRA Document Number: **2297489**

Purpose of Application

The purpose of this application was to register a new combination of technical grade active ingredients, Trilogy SC, iprodione (Registration number 20267), triticonazole (Registration number 28387), and trifloxystrobin (Registration number 27526), with new guarantees for each of the active ingredients and a new use site, sod farms, for Trilogy SC.

Chemistry Assessment

Trilogy SC contains the active ingredients iprodione, triticonazole and trifloxystrobin at nominal concentrations of 29.41, 3.14 and 1.47% respectively. This product has a density of 1.16 g/mL at 20°C and a pH of 7.3. The chemistry requirements for Trilogy SC are complete.

Health Assessments

Trilogy SC is of low toxicity by the oral, dermal and inhalation routes of exposure. It is minimally irritating to both the eye and skin of the rabbit. It is not a dermal sensitizer in the guinea pig.

A food residue exposure assessment was not required for this application.

The use of Trilogy SC on golf course and sod farm turf fit within the registered use pattern for iprodione and trifloxystrobin. The registration of triticonazole on sod farm turf is an expansion of use. As such, occupational risks were assessed and found to be acceptable for workers mixing/loading and applying triticonazole to sod farm turf. Given the accepted application timing for Trilogy SC to treat pink and grey snow moulds, the potential for postapplication exposure to golfers and golf course and sod farm workers is minimal.

Environmental Assessment

An environmental assessment was not conducted as there is no potential increase in the environmental exposure and impact from that of the currently registered uses for all three active ingredients. Environmental concerns are mitigated with label statements.

Value Assessment

Five studies from Ontario and one from Michigan conducted in 2007-2009 on golf courses with a history of heavy snow mould pressure tested Trilogy SC or its individual ingredients in a tank-mix at the proposed rates and timing. Results showed that Trilogy SC rates (100-177 ml/100 m²) consistently provided adequate control of pink and gray snow moulds on various turfgrass species, i.e. *Poa* spp. and *Agrostis palustris*. The value of the Trilogy SC pre-mix over its respective individual ingredients resides in 1) its increase in levels of protection against snow moulds, 2) its decrease in application rates of iprodione, triticonazole and trifloxystrobin and 3) its contribution to resistance management. Given that adequate levels of control were reached in golf course conditions, known to require intensive cultural practices in order to meet commercial expectations, it can be assumed that one Trilogy SC application will comparably control pink and gray snow moulds in sod farms. The use of Trilogy SC for control of pink snow mould (*Microdochium nivale*) and gray snow mould (*Typhula incarnata*, *T. ishkariensis*) on turf from golf courses and sod farms, when applied once in late fall at 100-177 ml/100 m² in a minimum of 6 L/100 m² spray solution, is supported.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Trilogy SC, and has found the information sufficient to support the purpose of the application.

References

- 1793681 2009, Trilogy SC Part 3, DACO: 3.1, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.3.1,3.3.2,3.4,3.4.1,3.4.2,3.5,3.5.1,3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5.15,3.5.2, 3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.8,3.5.9,3.6 CBI
- 1793682 2009, HPLC Determination of Iprodione, Triticonazole and Trifloxystrobin in SC Formulation, DACO: 3.4.1 CBI
- 1793683 2009, Method Validation Checklist, DACO: 3.4.1 CBI
- 1793684 2009, Physical and Chemical Properties of Iprodione 29.41% + Triticonazole 3.14% + Trifloxystrobin 1.47%, DACO: 3.5, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2,3.5.4,3.5.5,3.5.6,3.5.7,3.5.8,3.5.9
- 1852281 Iprodione Linearity, DACO: 3.4.1 CBI
- 1852282 Chromatogram of end-use product., DACO: 3.4.1 CBI
- 1793678 2009, Trilogy Sc Fungicide (394.63 G Ai/Litre Containing 29.41% Iprodione Or 341.156 G/L, 1.47% Trifloxystrobin Or 17.052 G/L And 3.14% Triticonazole Or 36.424 G/L) For Control Of Snow Moulds On Turfgrass Found On Golf Courses And Sod Farms, DACO: 10.1,10
- 1793680 Trilogy SC Snow Mould Data Summary Excel tables, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.3.1, 10.3.2

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