

Evaluation Report for Category B, Subcategory 2.1, 2.6 & 3.11 Application

Application Number: 2015-0928

Application: New EP Product Chemistry-Guarantee, New combination of TGAIs, New to Product Labels-New Pests

Product: Honor Fungicide

Registration Number:

Active ingredients (a.i.): pyraclostrobin and boscalid

PMRA Document Number : 2620225

Purpose of Application

The purpose of this application was to register a new end-use product, Honor Fungicide, which contains a new combination two registered actives, pyraclostrobin and boscalid, for use on golf course turf.

Chemistry Assessment

Honor Fungicide is formulated as wettable granules containing boscalid and pyraclostrobin at nominal concentrations of 11.2% and 16.8%, respectively. This end-use product has a density of 0.558 – 0.615 kg/L and pH of 5.81 – 5.94. The required chemistry data for Honor Fungicide have been provided, reviewed and found to be acceptable.

Health Assessments

In rats, Honor Fungicide is moderately acutely toxic by the oral route. It is of low toxicity by the dermal and inhalation routes of exposure in rats. The formulation is minimally irritating to the rabbit eye and skin. It is a not a skin sensitizer in guinea pigs.

The occupational exposure and risk from the registration of the new commercial end-use product, Honor Fungicide, for use on turfgrass for the control of labelled diseases on golf courses fits within the registered use pattern for boscalid but the rate per application is slightly higher than the registered use pattern for pyraclostrobin. Risk assessments conducted previously for the proposed use for each of boscalid and pyraclostrobin, in addition to an updated postapplication recreational exposure assessment for golfers conducted with the current petition indicate that there are no health risks of concern from chemical handler or recreational use exposure based on the available data, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

No new metabolism or residue data were required for either of the active ingredients pyraclostrobin or boscalid in golf course turfgrass to support the dietary exposure assessment (DEA) of the new product, Honor Fungicide, given that the current request is for a non-food/feed use. However, it was noted that the seasonal application rate of

pyraclostrobin on turfgrass was higher than that was used to determine estimated environmental concentrations (EECs) used in the most recently conducted DEA. As such, the DEA was updated with newly generated EECs that took into account the increased seasonal application rate of pyraclostrobin. Based on the results of the updated DEA, no unacceptable health risks of concern were identified for any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

A request for a new golf course fungicide product, Honor Fungicide, has been reviewed. The seasonal application rates of boscalid and pyraclostrobin in Honor Fungicide are lower than those registered for the individual products. This new product will result in less environmental exposure than each of the products already registered for this use. Environmental risks are mitigated through existing environmental statements and buffer zones on the product label.

Value Assessment

Scientific rationales, published studies, and use history information were reviewed to support the proposed claims. Honor Fungicide contains two active ingredients, both of which are registered against certain turf diseases in other fungicide products. The Honor Fungicide label includes uses registered on the precedent labels, as well as some additional diseases. Comparison of the use patterns for the registered uses showed similar rates and application timings. Registered uses were determined to be acceptable for extrapolation to the Honor Fungicide label.

Use history information and published studies were reviewed to support turf diseases not currently registered on the precedent labels. Use history information originated from the US, so the US label was compared to the proposed use pattern. The submitted value information was sufficient to support the claims.

The use of a pre-mix product like Honor Fungicide will help delay the development of resistance by the dollar spot pathogen while expanding the disease spectrum. The use of this product also reduces the time and costs associated with applying two products, either in a tank mix or separately. Managers of high value turf in Canada have indicated the need for new products, including pyraclostrobin, to control summer patch and take-all patch. Honor Fungicide provides a solution to golf superintendents to manage these diseases.

Conclusion

The PMRA has reviewed the information available in support of this application and has determined that Honor Fungicide is acceptable for full registration.

References

List of Studies/Information Submitted by Registrant

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- 2509364 2014, DACO 3.5 - Chemical and Physical Properties: Honor Fungicide a New Turf Product Containing Pyraclostrobin and Boscalid, DACO: 3.5.11,3.5.13,3.5.15,3.5.3,3.5.9
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- 2509355 2015, Honor Fungicide: New Premix Combination of Pyraclostrobin and Boscalid for Disease Control on Golf Course Turf Part 2, DACO: 10.1
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- 2533296 2015, BASF response to Value questions May 7, 2015, DACO: 10.1
- 2533446 2015, BASF response to Value questions May 7, 2015, DACO: 10.1
- 2559668 2015, BASF Rationale to PMRA Clarifax 2, DACO: 10.1
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Additional Information Considered

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- 2543687 Settle, D. and Rincker, K., 2008, Fungicide for the curative control of brown ring patch on a Chicago *Poa annua* golf green, 2008, DACO: 10.2.3.3
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