

Evaluation Report for Category B, Subcategory 2.1, 2.6 Application

Application Number: 2013-4796
Application: New End-Use Product: Changes in guarantee and new combination of TGIAs.
Product: Engarde Herbicide
Registration Number: 31595
Active ingredients (a.i.): Mesotrione
Rimsulfuron
PMRA Document Number: 2469430

Purpose of Application

The purpose of this application was to register a new end-use product; Engarde Herbicide containing mesotrione and rimsulfuron for the control of annual grasses and broadleaf weeds by ground application to field corn in Eastern Canada. Engarde Herbicide is a blend of the registered products Rimsulfuron 25 SG MUP (registration number 29101) and Mesotrione 50WG Herbicide (registration number 29655).

Three other concurrent applications were received for; Engarde Post Manufacturing Use Product (registration number 31594), Engarde Manufacturing Use Product (registration number 31593) and Engarde Post Herbicide (registration number 31596).

Chemistry Assessment

Engarde Herbicide is formulated as wettable granules containing rimsulfuron at a nominal concentration of 4.31% and mesotrione at nominal concentration of 41.38%. This end-use product has a density of 0.5848 g/mL and pH of 3.94. The chemistry requirements for this product have been fulfilled.

Health Assessments

As Engarde Herbicide is a blend of two existing products, no new toxicology data were required.

The use of Engarde Herbicide to control annual grasses and broadleaf weeds in field corn in Eastern Canada is not expected to result in potential occupational or bystander exposure over that of registered uses of mesotrione and rimsulfuron. No risks of concern are expected when workers follow label directions.

No new residue data were submitted in support of the registration of Engarde for use on field corn. Data on file support the use of Engarde Herbicide and the magnitude of mesotrione and rimsulfuron residues in/on field corn are not expected to increase from its use. Therefore, the dietary exposure to mesotrione and rimsulfuron is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

No environmental concerns were identified as the use of Engarde Herbicide on field corn fall within the existing registered use pattern for the active ingredients mesotrione and rimsulfuron.

Value Assessment

The registration of Engarde Herbicide is supported from a value standpoint for the following reasons;

- tank mixtures including the active ingredients of rimsulfuron and mesotrione are labeled for Elim EP Herbicide 25% Dry Flowable (registration number 23518), Callisto 480SC (registration number 27833), and Ultim 75DF Herbicide (registration number 24736).
- all uses and claims requested for Engarde Herbicide are labeled for either Rimsulfuron 25 SG MUP or Mesotrione 50WG.
- products co-formulated with herbicide mode of action Group 2 and 27 are registered for control of annual grasses and broadleaf weeds in field corn; e.g., VIOS G3 (registration number 29643) containing 70 g/L thiencarbazone (Group 2) and 350 g/L tembotrione (Group 27).

The registration of Engarde Herbicide will provide corn growers with an effective tool to manage both grasses and broadleaf weeds with one pass application.

Conclusion

Following review of the application, the registration was approved for Engarde Herbicide to control of annual grasses and broadleaf weeds by ground application to field corn in Eastern Canada.

References

PMRA

Document

Number	Reference
2340736	2013, DACO 3.1-3.2, DACO: 3.1,3.1.1,3.1.2,3.1.3,3.1.4,3.2
2340737	2012, Physical and Chemical Characteristics, DACO: 3.5, 3.5.1, 3.5.11, 3.5.12, 3.5.13, 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
2340738	2013, Analytical Method, DACO: 3.4.1
2340739	2011, Validation of Analytical method, DACO: 3.4.1
2340740	2013, Storage and corrosion characteristics, DACO: 3.5.10,3.5.14
2341058	2013, DACO 3.1-3.2, DACO: 3.1,3.1.1,3.1.2,3.1.3,3.1.4,3.2,3.2.1,3.2.2,3.2.3
2341061	2013, DACO 10 waiver, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.2(B), 10.3.1, and 10.3.2(A).

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