

Evaluation Report for Category B, Subcategory 2.3, 2.4, 2.6, 3.2, 3.10 and 3.11 Application

Application Number: 2015-5642
Application: B.2.3: New Identity of Formulants
B.2.4: New Proportion of Formulants
B.2.6: New Combination of TGAIs
B.3.2: New Application Timing
B.10: New Tank Mixes
B.11: New Pests
Product: DuPont Destra IS Herbicide
Registration Number: 32626
Active ingredients (a.i.): Rimsulfuron + Mesotrione
PMRA Document Number: 2734592

Purpose of Application

The purpose of this application was to register the end use product called DuPont Destra IS Herbicide. This end use product is for post-emergent use on field corn in Eastern Canada.

Chemistry Assessment

DuPont Destra IS Herbicide is formulated as a wettable granule containing rimsulfuron at a nominal concentration of 5.45 % and mesotrione at a nominal concentration of 36.36 % nominal. This end-use product has a density of 0.51 – 0.71 g/cm³ and pH of 4 - 7. The required chemistry data for DuPont Destra IS Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

DuPont Destra IS Herbicide is of low toxicity to rats via the oral, dermal, and inhalation routes. It is minimally irritating to the eye and non-irritating to the skin of rabbits. It is not a dermal sensitizer.

The use of DuPont Destra IS Herbicide to control annual grasses and broadleaf weeds in conventional and glyphosate-tolerant field corn varieties in Eastern Canada is not expected to result in potential occupational or bystander exposure over the registered uses of the herbicide active ingredients rimsulfuron and mesotrione. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

The use of DuPont Destra IS Herbicide label is similar to, or more restrictive than, some currently registered use patterns on the labels of precedent products. Therefore, residues of the herbicide active ingredients in/on treated commodities are not expected to increase and will be covered under the maximum residue limits (MRLs) currently established. Consequently, the dietary exposure to residues of rimsulfuron and mesotrione is not expected to increase with the registration of DuPont Destra IS Herbicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The use of DuPont Destra IS Herbicide is not expected to increase environmental exposure, and risk, when compared to similar products. Environmental concerns are adequately mitigated by label statements.

Value Assessment

DuPont Destra IS Herbicide will provide corn growers in eastern Canada with an option for controlling labelled grass and broadleaf weeds and flexibility in application timing despite hybrid sensitivity.

Data from field trials conducted in Ontario, in comparison to precedent registrations, demonstrated that adequate control or suppression of all weeds on the DuPont Destra IS Herbicide label would be expected, whether applied alone or in tank mix with atrazine and/or glyphosate.

Data from a series of field trials conducted in Ontario demonstrated that adequate tolerance of field corn to DuPont Destra IS Herbicide would be expected when it is used in accordance with the label.

No rotational cropping data were provided for review. However, rotational cropping information present on a precedent registration was sufficient to support the rotational crops and specified planting intervals that appear on the DuPont Destra IS Herbicide label.

Conclusion

PMRA has conducted a critical review of the information provided in support of the registration of DuPont Destra IS Herbicide. Based on the results of this review, DuPont Destra IS Herbicide is acceptable for full registration.

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