

Evaluation Report for Category B, Subcategory 2.6, 3.2, 3.12 Application

Application Number: 2016-7190
Application: New End-Use Product Chemistry – New Combination of TGAIs, New End-Use Product Label – Application Timing and New Site
Product: DB-878 Herbicide
Registration Number: 32955
Active ingredients (a.i.): Dicamba (present as sodium salt), Tribenuron-methyl
PMRA Document Number : 2839659

Purpose of Application

The purpose of this application was to register the end-use product DB-878 Herbicide, to be tank-mixed with glyphosate and applied pre-seed to wheat (spring, winter and durum), spring barley and oats, or as chemfallow and a post-harvest treatment in Western Canada.

Chemistry Assessment

DB-878 Herbicide is formulated as a granule containing dicamba (present as sodium salt) and tribenuron-methyl at nominal concentrations of 60.87 and 6.52 % respectively. This end-use product has a bulk density of 0.5 -0.7 g/cm³ and pH of 6.3 – 9.3. The required chemistry data for DB-878 Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

The health hazard profile of DB-878 Herbicide is considered to be equivalent to the profiles of the two component products. No toxicological data were submitted or required.

The use of DB-878 Herbicide to control broadleaf weeds pre-seeding to wheat (spring, winter, and durum), spring barley or oats, and as a chemfallow or a post-harvest field treatment in tank-mix with glyphosate is not expected to result in potential occupational or bystander exposure over the registered uses of the herbicide active ingredients dicamba, tribenuron-methyl and glyphosate. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

New food residue data were not submitted for dicamba, tribenuron-methyl and glyphosate to support the registration of DB-878 Herbicide. Previously reviewed residue data were considered in the context of the current submission. The established maximum residue limits (MRLs) for the three active ingredients are adequate to cover the expected residues resulting from the use of DB-878 Herbicide. The dietary exposure assessments on file are also considered acceptable to estimate the dietary exposure to residues of these active ingredients and no health risks of concern have been identified for any segment of the population including infants, children, adults and seniors.

Environmental Assessment

The use pattern for DB-878 Herbicide, including the application rates, sites and methods, is within the registered use pattern for other registered products containing dicamba and tribenuron-methyl. Therefore no additional environmental risk is expected from the use of the DB-878 Herbicide. The label contains all the applicable and required environmental hazards and precautions statements, including buffer zones information.

Value Assessment

An application of DB-878 Herbicide plus glyphosate herbicide provides control of a broad spectrum of weeds, including Group 2 and 9 resistant kochia, in pre-seed, chemfallow and post-harvest situations. This tank-mix also provides three distinct herbicide modes of actions that act as an effective management tool to prevent and/or manage the emergence of Group 9 herbicide resistant kochia in populations that currently do not have resistance.

The value information submitted for review included data from replicated field trials conducted in the Canadian Prairies in 2013 and 2015 as well as scientific rationales. The value information demonstrated that the efficacy of DB-878 Herbicide was comparable to that of the cited precedent treatment. Furthermore, the treatments of tribenuron-methyl and dicamba each applied in tank-mix with glyphosate have a long use history in Canada. All listed host and rotational crops can be expected to have adequate margins of crop tolerance to DB-878 Herbicide when applied in accordance with the label instructions. Overall, the registration of DB-878 Herbicide has acceptable value and is supported.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and has found the information sufficient to support registration of DB-878 Herbicide.

References

PMRA Document Number	Reference
2698142	2016, DB-878 Herbicide: Part 3.1-3.2 Chemistry, 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 CBI
2698139	2016, DB-878 Herbicide: Request for Waiver of Storage Stability and Corrosion Characteristics Studies, DACO: 3.5.10,3.5.14 CBI
2698141	2016, DB-878 Herbicide: Request for Waiver of Part 3 Chemistry Data, DACO: 3.0, 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 CBI
2698137	2016, Control of herbicide resistant kochia (<i>Kochia scorparia</i>) with DB-878 Herbicide tank-mixed with glyphosate (Supplement 1), DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.2.3.3(B), 10.3.2, and 10.3.2(A).
2722041	2017, DuPont response to the clarification request. DACO: 10.3.3.

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