

Evaluation Report for Category B, Subcategory 2.3, 2.4 Application

Application Number: 2016-1303
Application: New EP Product Chemistry – Identify and Proportion of Formulants
Product: Metrix SC Herbicide
Registration Number: 32876
Active ingredient (a.i.): Metribuzin
PMRA Document Number: 2757920

Purpose of Application

The purpose of the application was to register the end-use product Metrix SC Herbicide, containing the active ingredient metribuzin, based on a precedent product.

Chemistry Assessment

Metrix SC Herbicide is formulated as a suspension concentrate containing metribuzin at a nominal concentration of 480 g/L. This end-use product has a density of 1.124 g/mL and pH of 6-7. The required chemistry data for Metrix SC Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Metrix SC Herbicide is considered toxicologically equivalent to the precedent product. Consequently no toxicological data were submitted or are required.

The use pattern of Metrix SC Herbicide fits within the registered use pattern for metribuzin. Therefore, the potential exposure for mixers, loaders, applicators and postapplication re-entry workers is not expected to exceed the current exposure to the registered product and no health risks of concern are expected provided that workers wear the appropriate PPE and follow all label restrictions.

No residue data were submitted in support of the registration of Metrix SC Herbicide based on a precedent product. The use pattern of the end-use product was determined to be equivalent to that of the registered precedent product. Therefore, the previously reviewed data were reassessed in the framework of the current submission and it was confirmed that the use of Metrix SC Herbicide is not expected to result in an increase in the magnitude of metribuzin residues in/on the treated crops. Therefore, the use of Metrix SC Herbicide will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The rates were similar to current registered rates of other registered products. No additional environmental risk is expected from the use of this product. Therefore, additional environmental data were not required to support the use of Metrix SC Herbicide. Environmental concerns are mitigated on the existing label.

Metrix SC Herbicide contains the preservative 1,2-benzisothiazoline-3-one which contains low levels of dioxins and furans. These are being managed as outlined in the PMRA Regulatory Directive DIR99-03 for the implementation of TSMP.

Value Assessment

The availability of Metrix SC Herbicide would provide farmers an additional option to manage both grass and broadleaf weeds in several crops. Registration of a generic product may increase product competition in the marketplace thereby potentially reducing purchasing costs of similar products.

The formulation of Metrix SC Herbicide was compared to the formulation of the precedent product. It was concluded that differences in the formulations would be unlikely to result in any significant impact on product performance, both in the terms of efficacy and crop tolerance.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the registration of the end-use product Metrix SC Herbicide, containing the active ingredient metribuzin.

References

PMRA Document Number	References
2672183	2013, Development and Validation of the Analytical Methods for Determination of Active in Metribuzin 48% SC Formulation, DACO: 3.4.1
2614294	2013, Flash Point and Auto Ignition Temperatures on the Sample: Metribuzin 48% SC, DACO: 3.5.11
2614289	2014, Chemistry-3.1.1-4,3.2.1, 3.2.3, 3.3.1,3.5. 4-5,13, 15-Metribuzin 480, DACO: 3.1.1,3.1.2,3.1.3,3.1.4,3.2.1,3.2.3,3.3.1,3.5.13,3.5.15,3.5.4,3.5.5 CBI
2614293	2014, Determination of the Physio-Chemical Properties of Metribuzin 48% SC Formulation Before and After Accelerated Storage at 54 C for 14 Days and Low Temperature Storage at) C for 7 Days, DACO: 3.5.1,3.5.10,3.5.12,3.5.2,3.5.3,3.5.6,3.5.7,3.5.9
2614292	2014, Formulation_Metribuzin_480-SC, DACO: 3.2.2 CBI
2672180	2016, DACO 3.5.9 Viscosity; Response to Clarifications for Metribuzin 480 SC Herbicide, Submission Number 2016-1303 , DACO: 3.5.9
2672182	2016, Description of Process Formulation to Metribuzin 480 g/L SC, DACO: 3.2.1,3.2.2,3.3.1 CBI
2614290	2016, Technical Bulletin Atlox 4894, DACO: 3.2.1 CBI
2614291	2016, Technical Bulletin Atlox 4913, DACO: 3.2.1 CBI

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