

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2021-2834
Application: Submission subject to the Protection of Proprietary Interests in Pesticide Data (PPIP) policy - Equivalency/Data Compensation Assessment
Product: Plotter Herbicide
Registration Number: 34619
Active ingredient (a.i.): Metsulfuron-methyl
PMRA Document Number :3382826

Purpose of Application

The purpose of this application was to register an end-use product, Plotter Herbicide, for post-emergent control of broadleaf weeds in small grain cereals, established grasses, and pasture and rangeland, based on a precedent product.

Chemistry Assessment

Plotter Herbicide is formulated as wettable granules containing metsulfuron-methyl at a concentration of 60.0%. This end-use product has a density of 0.6714 – 0.6741 g/mL and pH of 5.47 (1% solution). The required chemistry data for Plotter Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Plotter Herbicide is considered toxicologically equivalent to the precedent product; therefore, no toxicological data were required. Plotter Herbicide is considered to be of low acute toxicity via the oral, dermal and inhalation routes of exposure. It is considered mildly irritating to the eyes and non-irritating to the skin, and it is not considered to be a dermal sensitizer.

Plotter Herbicide containing Metsulfuron-methyl is comparable to the registered use pattern of the precedent product. Therefore, potential exposure for mixers, loaders, applicators, bystanders and post-application workers is not expected to exceed the current exposures to the registered product of this active ingredient. No health risks of concern are expected for workers and bystanders when label directions, precautions and restrictions are followed.

No new residue data for metsulfuron-methyl were submitted or are required to support the registration of Plotter Herbicide. Previously reviewed residue data were re-assessed in the framework of this application. The use directions on the Plotter Herbicide label, including the target crops, method, rates, timing and number of applications, rotational crop intervals and grazing/feeding restrictions are comparable to those on the label of the precedent end-use products.

Based on this assessment, residues are not expected to be greater than those from the currently registered uses and will be covered by the established maximum residue limits (MRLs). Consequently, dietary exposure to residues of metsulfuron-methyl is not expected to increase with the registration of Plotter 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 pattern and application rates on the label of Plotter Herbicide fall within the currently registered use pattern for the active metsulfuron-methyl. Therefore, no additional risk is expected when Plotter Herbicide is used in accordance with the label, which includes statements to mitigate risks to the environment.

Value Assessment

The availability of Plotter Herbicide would provide farmers with an alternative option to manage broadleaf weeds in a range of grassy crops and pasture and rangeland in the Prairie Provinces, the Peace River Region and Interior of British Columbia. Registration of a generic product may increase product competition in the marketplace, which may in turn reduce purchasing costs of similar products.

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

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to register Plotter Herbicide.

References

PMRA Document Number	Reference
3240967	2021, Additional Product Chemistry for Plotter Herbicide, DACO: 3.1.1,3.1.2,3.5.13,3.5.15,3.5.4,3.5.5,3.5.9
3240976	2011, Study On Physico-Chemical Properties of Metsulfuron-Methyl 600 g/kg Water Dispersible Granule, DACO: 3.3.1,3.4.1,3.5.1,3.5.10,3.5.14,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8
3240977	2006, Determination of the Relative Self-Ignition Temperature of Metsulfuron-Methyl 600 g/kg WG, DACO: 3.5.11
3240978	2011, Study on Flammability, Explosive and Corrosiveness Properties of Metsulfuron-methyl 600 g/kg Water Dispersible Granule, DACO: 3.5.11,3.5.12,3.5.14
3240979	2006, On the Oxidizing Properties of Metsulfuron-methyl 600 g/kg WG, DACO: 3.5.8

3371812	2022, Revised Manufacturing Process of Metsulfuron-methyl 600 g/kg WG, DACO: 3.2.1,3.2.2,3.2.3,3.3.1
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