

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4 Application

Application Number: 2016-6613
Application: New End-use Product Chemistry - Guarantee, Identity and Proportion of Formulants
Product: Edge MicroActiv Herbicide
Registration Number: 32904
Active ingredient (a.i.): Ethalfluralin
PMRA Document Number: 2821084

Purpose of Application

The purpose of this application was to register the end-use product Edge MicroActiv Herbicide, a granular herbicide for preplant weed control in oilseed and pulse crops.

Chemistry Assessment

Edge MicroActiv Herbicide is formulated as a granule containing ethalfluralin at a nominal concentration of 10%. This end-use product has a density of 0.6839 g/mL and pH of 4.19. The required chemistry data for Edge MicroActiv Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Edge MicroActiv Herbicide is considered to be of low toxicity to rats via the oral, and dermal routes, and slightly acutely toxic via inhalation route. It is moderately irritating to the skin and eyes of rabbits. It is a dermal sensitizer in guinea pigs.

The use of the end-use product Edge MicroActiv Herbicide for application to oilseed and pulse crops is not expected to result in potential occupational or bystander exposure over the registered uses of ethalfluralin. 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 ethalfluralin to support the registration of the new end-use product Edge MicroActiv Herbicide. Previously reviewed residue data were considered in the context of the current application. The established maximum residue limits (MRLs) for ethalfluralin are adequate to cover the expected residues resulting from the use of Edge MicroActiv Herbicide. The dietary exposure assessment on file is also considered acceptable to estimate the dietary exposure to residues of ethalfluralin, and no health risks of concern have been identified for any segment of the population including infants, children, adults and seniors.

Environmental Assessment

The end-use product Edge MicroActiv Herbicide was evaluated based on a precedent product containing ethalfluralin. The two products have similar formulations and labels. Therefore, no unacceptable environmental risk is expected. The label contains adequate mitigation measures to address any environmental concerns.

Value Assessment

Edge MicroActiv Herbicide contains twice the quantity of active ingredient as the cited precedent product. Therefore, half the amount of end use product is applied to achieve the same rate of active ingredient per hectare. As twice the area can be treated with a single load and as the application equipment needs to be loaded less often, the overall application operation is more efficient.

The formulation of Edge MicroActiv Herbicide is similar to that of the precedent product, with the principal difference being the concentration of active ingredient. It was concluded that differences between the formulations are unlikely to impact product performance, particularly given that Edge MicroActiv Herbicide is not applied to foliage but to the soil before weed emergence and prior to crop planting.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of the end-use product Edge MicroActiv Herbicide.

References

PMRA Document Number	Reference
2691652	1996, Series 63: Determination of Physical and Chemical properties of Sonalan* 10G, a Granule Formulation Containing Ethalfluralin, DACO: 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.2, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
2704435	1990, Sonalan 10G, FN 3314 Storage Stability and Corrosion Characteristics, DACO: 3.5.10,3.5.14 CBI
2691650	1996, Series 61: Product Identity and Composition of Sonalan 10G: A Granular Formulation Containing Ethalfluralin, DACO: 3.2.1, 3.2.2, 3.2.3, 3.5.4 CBI

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