

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 3.13 Application

Application Number: 2013-5203
Application: New EP Chemistry-Guarantee, Identity of Formulants, Proportion of Formulants,
New or Changes to Product Labels-Precautions
Product: Aspect Herbicide
Registration Number: 31641
Active ingredients (a.i.): 2,4-D, present as choline salt, Picloram, present as triisopropanolamine salt
PMRA Document Number: 2412187

Purpose of Application

The purpose of this application was to register a new herbicide product intended for application on rights-of-way only for control of unwanted brush and broadleaf weeds (USC 16).

Chemistry Assessment

Aspect Herbicide is formulated as a solution containing 2,4-D, present as choline salt, at nominal concentration of 360 g/L and picloram, present as triisopropanolamine salt, at nominal concentration of 97.5 g/L. This end-use product has a density of 1.20-122 g/mL and pH of 6.8-7.5. The chemistry requirements for this product have been fulfilled.

Health Assessments

Aspect Herbicide is of low acute oral ($LD_{50} = 2500$ mg/kg bw), dermal ($LD_{50} > 5000$ mg/kg) and inhalation ($LC_{50} > 6.05$ mg/L) toxicity. It is moderately irritating to rabbit eye and minimally irritating to the skin of the rabbit. It is a skin sensitizer by the local lymph node assay in mice.

The occupational exposure and risk for 2,4-D and picloram from the use of the new end-use product Aspect Herbicide on rights-of-way were assessed. No risks of concern are expected from the new use, provided workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

With the environmental precautions on the Aspect Herbicide label, in accordance with the registered Tordon 101 Herbicide (Registration Number 9007) label, it is not anticipated that additional environmental risks will result from its use.

Value Assessment

Value information including data from a total of 29 field trials conducted in Canada and the US over a three year period was submitted for review. Efficacy and grass safety of Aspect Herbicide applied alone or with a silicon-based surfactant or a non-ionic surfactant was directly compared to the registered treatment of Tordon 101 Herbicide (Reg. No. 9007) applied alone or with the respective surfactant at the same a.i. rate per hectare.

The efficacy of Aspect Herbicide for control of a number of broadleaf weeds (including annual, biennial, and perennial), woody brush, and trees was evaluated on one to five occasions. Data from these trials demonstrated that the level of control of each of these weeds, woody brush, and trees following application of Aspect Herbicide alone or with a surfactant was comparable to that observed following application of the registered treatment of Tordon 101 alone or with the same surfactant. Therefore, all efficacy claims registered for Tordon 101 are supported for inclusion on the Aspect Herbicide label.

The grass safety of Aspect Herbicide was investigated for Bermuda grass orchard grass, tall fescue, and mixed grass species in 12 of the submitted trials. Data from these trials demonstrated that grass injury following application of Aspect Herbicide alone or with a listed surfactant was comparable to that observed following application of the registered treatment of Tordon 101 Herbicide alone or with the same surfactant. Therefore, the labelled use for Tordon 101 Herbicide is supported for inclusion on the Aspect Herbicide label.

An application of Aspect Herbicide diluted in a 1:1.5 ratio with water or ethylene glycol for cut surface treatments on unwanted trees is supported from a value standpoint for the following reasons.

- Application of Tordon 101 Herbicide diluted in a 1:1 ratio with water or ethylene glycol for cut surface treatments on unwanted trees was previously registered in Canada.
- The 1:1 dilution ratio labeled for Tordon 101 Herbicide is equivalent to 1:1.5 for Aspect Herbicide that has a higher product guarantee.

Registration of a more concentrated formulation of Aspect Herbicide will allow users to spray more acreage using the same amount of product.

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 new end-use product Aspect Herbicide.

References

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