

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4 and 3.1 Application

Application Number: 2009-5159
Application: New/Changes EP Product Chemistry-Guarantee, Identity and Proportion of Formulants; New/Changes to Product Labels-Application Rate Increase
Product: PC Herbicide Concentrate Plus
Registration Number: 30532
Active ingredients (a.i.): 2,4-D (as amine salts), mecoprop-P and dicamba
PMRA Document Number : 2180677

Purpose of Application

The purpose of this application was to register a new end-use product, PC Herbicide Concentrate Plus, containing the herbicide active ingredients, 2,4-D (as amine salts), mecoprop-p and dicamba. PC Herbicide Concentrate Plus has commercial classification for to control broadleaf weeds in turf (parks, lawns, golf courses, etc.) in use site category 30 (USC 30 – Turf).

Chemistry Assessment

PC Herbicide Concentrate Plus is formulated as an emulsifiable concentrate containing 2,4-D (present as dimethylamine salt) at a nominal concentration of 6.33 g a.e./L, mecoprop-P (present as dimethylamine salt) at a nominal concentration of 4.04 g a.e./L and dicamba (present as dimethylamine salt) at a nominal concentration of 0.78 g a.e./L. This end-use product has a density of 0.855 g/cm³ and pH of 5.2. The chemistry requirements for PC Herbicide Concentrate Plus are complete.

Health Assessments

PC Herbicide Concentrate Plus is of low acute toxicity by the oral, dermal, and inhalation routes in rats. It is essentially non-irritating to the rabbit eye and skin. The formulation is not a skin sensitizer in guinea pigs.

The use of PC Herbicide Concentrate Plus on turf fits within the registered use of 2,4-D, dicamba and mecoprop-P. The use of this product on turf should not result in risks of concern to workers, homeowner applicators or bystanders. No unacceptable risk is expected when workers and homeowners follow the label directions and workers wear the personal protective equipment presented on the label.

Environmental Assessment

On the basis of toxicity endpoints and application rates for each of the three herbicide actives, it was determined that mecoprop-P posed the highest risk to aquatic and terrestrial habitats, thus, the risk assessment and risk mitigation measures were based on this active. Product label statements regarding environmental hazards, spray drift mitigation and spray buffer zones for the protection of estuarine/marine and terrestrial habitats are in accordance with the current standards.

Value Assessment

The efficacy of PC Herbicide Concentrate Plus applied to turf for control of common dandelion, white clover, broadleaf plantain, narrow-leaf plantain, black medick, chickweed, and bulbous buttercup was assessed. The submitted data support the claim of control of white clover, broadleaf plantain, narrow-leaf plantain, black medick and suppression of common dandelion at an application rate of 70 L product/ha.

Injury to several turf species or varieties treated with PC Herbicide Concentrate Plus was usually low or absent. However, based on injury observed in two of 11 trials, a statement regarding possible crop injury was added to the label.

Conclusion

The PMRA has conducted a review of the available information and has concluded that full registration of PC Herbicide Concentrate Plus can be accepted.

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