

## Evaluation Report for Category B, Subcategory 2.6 Application

**Application Number:** 2013-1936  
**Application:** New / Changes EP or MA Product Chemistry-New combination of TGIAs  
**Product:** Prestige XL HERBICIDE  
**Registration Number:** 31428  
**Active ingredients (a.i.):** Clopyralid, Fluroxypyr, present as 1-methylheptyl ester, MCPA, present as esters  
**PMRA Document Number :** 2417218

### Purpose of Application

The purpose of this application was to register a new end use product for post emergence control of broadleaf weeds in small grain cereals, seedling and established tall fescue and forage grasses grown for seed, and canary seed. This is a new combination of actives in a single formulation.

### Chemistry Assessment

Prestige XL Herbicide is formulated as an emulsifiable concentrate containing MCPA (present as 2-ethylhexyl ester), clopyralid and fluroxypyr (present as 1-methylheptyl ester) at nominal concentrations of 239.5 g a.e./L, 42.72 g a.e./L, and 61.56 g a.e./L, respectively. This end-use product has a density of 1.015 g/mL and pH of 2.71 (1 % w/w). The chemistry requirements for this product have been fulfilled.

### Health Assessments

Prestige XL Herbicide is slightly acutely toxic by the oral route in female rats; it is of low acute toxicity by the dermal and inhalation routes in rats. It is mildly irritating to the rabbit eye but is moderately irritating to the rabbit skin. The formulation is a skin sensitizer in guinea pigs.

No new residue data were submitted to support the registration of the new end-use product Prestige XL Herbicide, containing clopyralid, MCPA, or fluroxypyr-meptyl. As all active ingredients are currently registered for use on wheat (spring, durum and winter), spring barley, oats, seedling and established tall fescue grown for seed, seedling and established forage grasses grown for seed and canary seed at similar application rates and conditions, the registration of Prestige XL Herbicide will not result in an increase in dietary exposure to these active ingredients and will not pose risks of concern to any segment of the population, including infants, children, adults and seniors.

The use of Prestige XL Herbicide for use on wheat (spring, durum and winter), spring barley, oats, seedling and established tall fescue grown for seed, seedling and established forage grasses

grown for seed, and canary seed is not expected to result in potential exposure above the current registered uses of clopyralid, MCPA and fluroxypyr. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

### **Environmental Assessment**

Use of the proposed new co-formulation Prestige XL Herbicide will result in slightly higher exposure to the active fluroxypyr as compared to the registered tank-mix Prestige XC Herbicide. New no spray buffer zones have been determined to mitigate risks to terrestrial plants and aquatic organisms. Environmental risks have been mitigated through adequate label statements.

### **Value Assessment**

Value information including bridging data from 15 combined efficacy and crop tolerance trials conducted in Alberta, Manitoba, and Saskatchewan in 2012 were submitted in support of the registration of Prestige XL Herbicide. Efficacy and crop safety of Prestige XL Herbicide applied alone or plus one of the following herbicides, Achieve Liquid, Axial, and Simplicity, were directly compared to the cited tank mix concept Prestige XC Herbicide applied alone or plus the same herbicides in these trials.

Efficacy of these herbicide treatments was visually assessed for control of redroot pigweed, shepherd's-purse, Canada thistle, lamb's-quarters, hemp-nettle, cleavers, wild buckwheat, perennial sow-thistle, chickweed, dandelion, and wild oats. Data from the field trials demonstrated that the level of control of these weeds with the application of Prestige XL Herbicide was comparable to that of Prestige XC HTM. Therefore, efficacy claims for Prestige XC HTM are supported for inclusion on the Prestige XL Herbicide label at the requested rates.

Data from the field trials also demonstrated that efficacy of Prestige XL Herbicide plus Achieve Liquid or Axial was comparable to that of Prestige XC HTM plus the same herbicides for control of wild oats. Therefore, the labelled tank mix partners for Prestige XC HTM are supported for inclusion on the Prestige XL Herbicide label, including Achieve Liquid, Horizon HTM, Assert 300 SC, and Everest 70 WDG or Everest Solupak 70 DF. Data from the field trials supported Simplicity as a new tank mix partner for inclusion on the Prestige XL Herbicide label.

Puma Advance is not labelled for Prestige XC HTM. Since Puma Advance was previously determined to be biologically equivalent to Puma<sup>120</sup> Super, which is labelled for Prestige XC HTM, Puma Advance is supported for inclusion on the Prestige XL Herbicide label.

Crop safety (visually assessed as a percentage relative to an untreated check) following the same herbicide treatments was reported for five spring wheat varieties in 14 trials, one spring barley variety in five trials, and one oat variety in two trials. Crop injury was either slight or not detectable for all herbicide treatments in these trials. Therefore, small grain cereals labelled for Prestige XC HTM are supported for inclusion on the Prestige XL Herbicide label, including spring wheat, durum wheat, winter wheat, spring barley, and oats.

While the tolerance of listed minor use crops, including seedling and established tall fescue and forage grasses and canary seed to Prestige XL Herbicide was not assessed, it is expected that

these crops would each be adequately tolerant to Prestige XL Herbicide since submitted data demonstrated that cereals exhibit a similar level of tolerance to Prestige XL Herbicide as to the herbicide tank mix concept of Prestige XC.

Rotational crop tolerance claims for Prestige XC HTM can be extrapolated to Prestige XL Herbicide because the maximum registered rate of Prestige HTM includes the soil residual herbicide components fluroxypyr and clopyralid at the rates that are similar to these which would be applied with Prestige XL Herbicide.

Registration of three active ingredients in a single formulation will be easily handled and applied by farmers.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Prestige XL Herbicide, and has found the information sufficient to support the registration of this new end-use product for post emergence control of broadleaf weeds in small grain cereals, seedling and established tall fescue and forage grasses grown for seed, and canary seed.

## References

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