

## Evaluation Report for Category B, Subcategory 2.1, 2.4, 3.1 Application

**Application Number:** 2013-4104  
**Application:** Product Chemistry- Guarantee  
Product Chemistry – Proportion of Formulants  
Product Labels – Application Rate Increase or Decrease  
**Product:** Bioprotec Lawn Herbicide Ultra Ready to Use  
**Registration Number:** 31317  
**Active ingredients (a.i.):** Citric Acid and Lactic Acid  
**PMRA Document Number:** 2344399

### Purpose of Application

The purpose of this application was to register a new domestic class end-use product, Bioprotec Lawn Herbicide Ultra Ready to Use, for partial suppression of bird's-foot trefoil, black medick, wood sorrel, red clover, and white clover in established lawns.

### Chemistry Assessment

Bioprotec Lawn Herbicide Ultra Ready to Use is formulated in a manner consistent with the precedent end-use product (EP), Bioprotec Lawn Herbicide Ready to Use (Registration Number 30883). No further data are required for the Product Characterization and Analysis assessment.

### Health Assessments

Bioprotec Lawn Herbicide Ultra Ready to Use is toxicologically equivalent to the formulation of the precedent EP, Bioprotec Lawn Herbicide Ready to Use (Registration Number 30883). The use pattern for Bioprotec Lawn Herbicide Ultra Ready to Use, with respect to occupational and bystander exposure, is not different from the precedent EP, Bioprotec Lawn Herbicide Ready to Use (Registration Number 30883). No further data are required to assess human health and safety testing; or occupational, and bystander exposure.

### Environmental Assessment

Bioprotec Lawn Herbicide Ultra Ready to Use is toxicologically equivalent to the formulation of the precedent EP, Bioprotec Lawn Herbicide Ready to Use (Registration Number 30883). The proposed use pattern for Bioprotec Lawn Herbicide Ultra Ready to Use, with respect to non-target organism exposure, is not different from the precedent EP, Bioprotec Lawn Herbicide Ready to Use (Registration Number 30883). No further data are required to assess environmental fate or environmental toxicology.

## **Value Assessment**

Based on the weight of evidence, Bioprotec Lawn Herbicide Ultra Ready to Use is expected to be agronomically equivalent to other registered products containing the active ingredients citric acid and lactic acid applied as per label directions.

Bioprotec Lawn Herbicide Ultra Ready to Use complements other bioherbicides controlling bird's-foot trefoil, black medick, wood sorrel, and red and white clover. The availability of Bioprotec Lawn Herbicide Ultra Ready to Use will offer an additional weed management tool for domestic use on turf grass.

## **Conclusion**

The PMRA has completed an assessment of the information available and is able to support the registration of the new end-use product Bioprotec Lawn Herbicide Ultra Ready to Use.

## References

None

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