

## Evaluation Report for Category B, Subcategory 3.2 Application

**Application Number:** 2023-1793  
**Application:** Changes to Product Label – Application Timing  
**Applicant:** Taminco US LLC.  
**Product:** Manipulator 620  
**Registration Number:** 31462  
**Active ingredient (a.i.):** Chlormequat chloride  
**PMRA Document Number:** 3515027

### Purpose of Application

The purpose of this application was to amend the registration of the commercial end-use product, Manipulator 620, to expand the single application timing in cereals to allow for early application at Zadoks Growth Stage (ZGS) 21 (main shoot and first tiller).

### Chemistry, Health and Environmental Assessments

Chemistry, health and environmental assessments were not required for this application.

### Value Assessment

Value information was submitted in the form of rationales and performance data generated in field studies conducted on spring wheat in 2013-2015 in Saskatchewan. The data demonstrated that Manipulator 620 applied once at 1.8 L/ha at Zadoks Growth Stage (ZGS) 21 or applied twice each at 0.9 L/ha, as split applications at ZGS21 followed by a second application at ZGS30, resulted in reduced lodging and plant height, leading to increased yields.

The option to apply Manipulator 620 at a stage in the cereal crops' lifecycle where herbicides can be applied in the same pass, as well as when the target hormone to reduce plant height (and therefore lodging) is actively being produced allows growers to manage cereal lodging while reducing the number of passes made in the field. This leads to time-savings and a reduction in input costs, soil compaction and emissions into the environment.

### Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to amend the registration of Manipulator 620.

## References

### PMRA

#### Document

#### Number

#### Reference

3460771	2023, Summary of Value for an Early Application of Manipulator 620 In Wheat, Barley, and Oats (3 of 3), DACO: 10.1,10.2.1,10.2.2,10.2.3.3(B), 10.3.1,10.4,10.5,10.6
3460772	2023, Summary of Value for an Early Application of Manipulator 620 In Wheat, Barley, and Oats (1 of 3), DACO: 10.1,10.2.1,10.2.2,10.2.3.3(B), 10.3.1,10.4,10.5,10.6

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