

## Evaluation Report for Category B, Subcategory 2.6, 3.2, 3.11 and 3.12 Application

**Application Number:** 2011-3158  
**Application:** New end-use product – New combination of technical grade active ingredients, new pests, new site or host, as well as new application timing  
**Product:** Restore II Herbicide  
**Registration Number:** 30632  
**Active ingredients (a.i.):** 2,4-D present as dimethylamine salt and aminopyralid  
**PMRA Document Number:** 2117217

### Purpose of Application

The purpose of this application was to register a new end-use product, Restore II Herbicide, containing 2,4-D present as dimethylamine salt (guarantee: 400 g/L) and aminopyralid (guarantee: 50 g/L) for use on rangeland and pasture areas (Terrestrial Feed Crops, Use Site Category 13). The new end-use product represents a new combination of actives which is based on a tank-mix concept product with the same actives: Restore A Herbicide (Registration number 28551; guarantee 240 g aminopyralid/L) and Restore B Herbicide (Registration number 28552; guarantee 564 g 2,4-D/L).

### Chemistry Assessment

Restore II Herbicide is formulated as a solution containing 2,4-D, present as dimethylamine salt, at a nominal concentration of 400 g/L and aminopyralid, present as triisopropanolamine salt, at a nominal concentration of 50 g/L. This end-use product has a density of 1.173 g/mL and a pH of 6.69. The chemistry requirements for Restore II Herbicide are complete.

### Health Assessments

Restore II Herbicide is of low toxicity to rats via the oral ( $LD_{50} > 2000$  mg/kg), dermal ( $LD_{50} > 5000$  mg/kg), and inhalation routes ( $LC_{50} > 5.26$  mg/L). It is severely irritating to the eye and mildly irritating skin of rabbits. It is not a dermal sensitizer in mice.

No new residue data were submitted to support the registration of the new end-use product Restore II Herbicide. As both active ingredients, 2,4-D (present as dimethylamine salt) and aminopyralid, are currently registered for use on rangeland and pastures at similar application rates and conditions, the registration of Restore II Herbicide will not result in an increase in dietary exposure to these active ingredients.

The use of Restore II Herbicide is considered acceptable when workers follow label directions and precautions, including listed personal protective equipment, restricted entry interval and amount handled per day restrictions.

### **Environmental Assessment**

As Restore II Herbicide has a similar use pattern (including application methods and active ingredient rates per hectare) as the current Restore Herbicide Tank-Mix, no additional environmental risk is expected from the registration of Restore II Herbicide compared to current registered uses.

### **Value Assessment**

Information in the form of trial data was submitted to support the registration of Restore II Herbicide. Agronomic equivalence in terms of efficacy and crop tolerance was demonstrated between Restore II Herbicide and Restore Herbicide Tank-Mix.

Additional weed claims that are supported on the Restore II Herbicide label, as compared to the weed list of the Restore Herbicide Tank-Mix label, were derived from weed claims registered on the Restore Herbicide Tank-Mix label, the Milestone Herbicide label (Registration number 28517) and a 2,4-D Amine label.

Information in the form of a scientific rationale demonstrated that a dedicated “Sensitive Plants” section was warranted on the Restore II Herbicide label. This precautionary section is intended to prevent damage to sensitive broadleaf plants (such as legumes).

The availability of Restore II Herbicide will provide a herbicide option for broadleaf weed and invasive plant control in rangeland and pasture areas of Canada, replacing Restore Herbicide Tank-Mix.

### **Conclusion**

The PMRA has completed an assessment of available information for Restore II Herbicide and has found the information sufficient to support the full registration of Restore II Herbicide.

## References

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