



## Evaluation Report for Category L, Subcategory 1.2 Application

**Application Number:** 2024-6640  
**Application:** Application Subject to the Protection of Proprietary Interests in Pesticide Data (PPIP) Policy-Equivalency/Data Compensation Assessment  
**Applicant:** Rainbow Cropsiences, Inc.  
**Product:** Rainbow 2,4-D 700 EC  
**Registration Number:** 35991  
**Active ingredient (a.i.):** 2,4-D (present as 2-ethylhexyl ester)  
**PMRA Document Number :** 3808763

### Purpose of Application

The purpose of this application was to register the end-use product Rainbow 2,4-D 700 EC, based on a registered precedent product.

### Chemistry Assessment

Rainbow 2,4-D 700 EC is formulated as an emulsifiable concentrate containing 2,4-D, present as 2-ethylhexyl ester, at a concentration of 660 g/L. This end-use product has a density of 1.1445 g/mL and pH of 3.7. The required chemistry data for Rainbow 2,4-D 700 EC have been provided, reviewed and found to be acceptable.

### Health Assessments

Rainbow 2,4-D 700 EC is considered toxicologically equivalent to the registered precedent product with respect to acute oral, dermal and inhalation toxicity, skin irritation and skin sensitization; therefore, no additional toxicology data were required. Rainbow 2,4-D 700 EC is not considered toxicologically equivalent to the registered precedent product with respect to eye irritation, but has been labelled accordingly to address this potential hazard. Rainbow 2,4-D 700 EC is considered to be of high acute toxicity by the oral route, and of low acute toxicity by the dermal and inhalation routes of exposure. It is considered severely irritating to the eyes, mildly irritating to the skin and a potential skin sensitizer.

The use pattern of Rainbow 2,4-D 700 EC is comparable to the registered use pattern of the precedent product. Therefore, potential exposures for mixers, loaders, applicators, bystanders and postapplication workers entering treated areas, as well as for adults, youth and children entering treated golf courses, are not expected to exceed the current exposures to the registered products of 2,4-D (present as 2-ethylhexyl ester). No health risks of concern are expected for workers, bystanders, adults, youth and children when label directions, precautions and restrictions are followed.



No new residue data for 2,4-D (present as 2-ethylhexyl ester) were submitted or were required to support the registration of Rainbow 2,4-D 700 EC. Previously reviewed residue data were re-assessed in the framework of this application.

The use directions on the Rainbow 2,4-D 700 EC label, including the target crops, methods (ground and/or aerial), rates and timing of application, preharvest intervals, and feeding restrictions are comparable to those on the label of the registered precedent product.

Based on this assessment, residues are not expected to be greater than those from the currently registered uses and will be covered by the established maximum residue limits (MRLs). Consequently, dietary exposure to residues of 2,4-D (present as 2-ethylhexyl ester) is not expected to increase with the registration of Rainbow 2,4-D 700 EC and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

### **Environmental Assessment**

The use of Rainbow 2,4-D 700 EC on wheat, barley, rye, soybean, field corn, and various non-crop sites including turf, pastures, and forests and woodlots, is within the currently registered use pattern for 2,4-D (present as 2-ethylhexyl ester). Therefore, the risk is acceptable when Rainbow 2,4-D 700 EC is used in accordance with the label, which includes statements to mitigate risks to the environment.

### **Value Assessment**

The formulation of Rainbow 2,4-D 700 EC was compared to that of the registered precedent product. Based on this comparison, it was concluded that these products are expected to perform similarly, both in terms of efficacy and crop tolerance. Therefore, the labelled uses and claims for Rainbow 2,4-D 700 EC are acceptable since they are also included in the registration of the precedent product.

The availability of Rainbow 2,4-D 700 EC provides users an additional product to manage common and economically important annual and perennial broadleaved weeds in labelled small-grain cereal crops, field corn, established grasses and legumes, established pastures and rangeland, non-crop land, sod farms and golf courses, woody growth management in non-crop areas, and for management of hardwoods in conifer stands or prior to planting conifers.

## Conclusion

Health Canada has completed an assessment of the information provided, and has found the information acceptable to support the registration of Rainbow 2,4-D 700 EC.

## References

### PMRA

#### Document

| Number  | Reference                                                                                                                                                               |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3666739 | 2024, 2,4-D 660 G/L EC (2,4-D 2-Ethylhexyl Ester 995 G/L EC): Validation of the Analytical Method for the Determination of Active Ingredient Content, DACO: 3.4.1 CBI   |
| 3666740 | 2024, 2,4-D 660 G/L EC (2,4-D 2-Ethylhexyl Ester 995 G/L EC): Determination of the Physico-chemical Properties, DACO: 3.5.1,3.5.11,3.5.2,3.5.3,3.5.7,3.5.8,3.5.9 CBI    |
| 3666741 | 2024, 2,4-D 660 G/L EC (2,4-D 2-Ethylhexyl Ester 995 G/L EC): Determination of the Accelerated Storage Stability and Corrosion Characteristics, DACO: 3.5.10,3.5.14 CBI |
| 3666743 | 2024, 2,4-D 660 G/L EC (2,4-D 2-Ethylhexyl Ester 995 G/L EC): Determination of the Relative Density, DACO: 3.5.6 CBI                                                    |
| 3676299 | 2024, Manufacturing Process of 2,4-D 660G/L EC, present as 2-Ethylhexyl Ester 995G/L, DACO: 3.2,3.2.1,3.2.2 CBI                                                         |
| 3676301 | 2024, Additional Product Chemistry for Rainbow 2,4-D 700 EC, DACO: 3.1.1,3.1.2,3.1.3,3.1.4,3.2.3,3.3.1,3.5.12,3.5.13,3.5.15,3.5.4,3.5.5 CBI                             |

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