



## Evaluation Report for Category L, Subcategory 1.2 Application

**Application Number:** 2021-6271  
**Application:** Submissions subject to Protection of Proprietary Interests in Pesticide (PPIP) Data Policy – Equivalency/Data Compensation Assessment  
**Product:** Lightning Glyphosate Potassium Salt 540 Liquid Herbicide  
**Registration Number:** 34916  
**Active ingredient (a.i.):** Glyphosate (present as potassium salt)  
**PMRA Document Number:** 3448164

### Purpose of Application

The purpose of this application was to register Lightning Glyphosate Potassium Salt 540 Liquid Herbicide, an end-use product for non-selective weed control in labelled cropland systems and non-cropland areas, based on a registered precedent product.

### Chemistry Assessment

Lightning Glyphosate Potassium Salt 540 Liquid Herbicide is formulated as a solution containing glyphosate, present as potassium salt, at a concentration of 540 g/L. This end-use product has a density of 1.38 g/mL and pH of 5.01. The required chemistry data for Lightning Glyphosate Potassium Salt 540 Liquid Herbicide have been provided, reviewed and found to be acceptable.

### Health Assessments

Lightning Glyphosate Potassium Salt 540 Liquid Herbicide is considered toxicologically equivalent to the precedent product; therefore, no toxicology data were required. This product is considered to be of low acute toxicity by the oral and dermal routes of exposure. It is considered to be of slight acute toxicity by the inhalation route. It is considered to be minimally irritating to the eyes and mildly irritating to the skin and is not considered to be a potential skin sensitizer.

The registered use pattern of Lightning Glyphosate Potassium Salt 540 Liquid Herbicide is comparable to the registered use pattern of the precedent product. Therefore, potential exposure for mixers, loaders, applicators, bystanders and postapplication workers is not expected to exceed the current exposure to the precedent product containing glyphosate. No health risks of concern are expected for workers and bystanders when label directions, precautions and restrictions are followed.

No new residue data for glyphosate were submitted or were required to support the registration of Lightning Glyphosate Potassium Salt 540 Liquid Herbicide. Previously reviewed residue data were re-assessed in the framework of this application.

The use directions on the Lightning Glyphosate Potassium Salt 540 Liquid Herbicide label, including the target crops, methods, rates and timing of application, geographic restrictions, preharvest intervals, feeding restrictions, and crop rotation restrictions are comparable to those on the label of the precedent product.

Based on this assessment, glyphosate 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 glyphosate is not expected to increase with the registration of Lightning Glyphosate Potassium Salt 540 Liquid Herbicide 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 Lightning Glyphosate Potassium Salt 540 Liquid Herbicide on terrestrial food and feed crops, outdoor ornamentals and turf, in human habitat and recreational areas, forests and woodlots, as well as for industrial vegetation control falls within the current or historical registered use pattern of the precedent product. The registration of Lightning Glyphosate Potassium Salt 540 Liquid Herbicide is acceptable from the perspective of environmental risk when used in accordance with label directions.

### **Value Assessment**

The formulation of Lightning Glyphosate Potassium Salt 540 Liquid Herbicide was compared to the formulation of the precedent product. The differences between the formulations were considered minor, and are unlikely to result in any significant impact on product performance, in terms of efficacy and/or crop tolerance. Therefore, all current or historical uses and claims from the precedent product label are supported for inclusion on the Lightning Glyphosate Potassium Salt 540 Liquid Herbicide label.

Registration of a generic product such as Lightning Glyphosate Potassium Salt 540 Liquid Herbicide may increase product competition, which may in turn reduce purchasing costs of similar products.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of Lightning Glyphosate Potassium Salt 540 Liquid Herbicide.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3294598	2021, Manufacturing Process, DACO: 3.2.2 CBI
3294599	2021, Declaration of Composition, DACO: 3.2.2 CBI
3294600	2019, Discussion of the Formation of Impurities of Toxicological Concern, DACO: 3.2.3
3294601	2016, Enforcement Analytical Method, DACO: 3.4.1
3294603	2010, Physical and Chemical Reports, DACO: 3.5.1,3.5.11,3.5.2,3.5.3,3.5.6, 3.5.7,3.5.8,3.5.9
3339641	2016, Storage Stability, DACO: 3.5.10
3351993	2016, Accelerated Storage Stability, DACO: 3.5.10

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