Health Canada Santé Canada

# Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2024-6841
**Application:** Application Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
**Applicant:** Rainbow CropSciences Inc.
**Product:** Rainbow Glyphosate Technical
**Registration Number:** 35989
**Active ingredient (a.i.):** Glyphosate
**PMRA Document Number: 3777863**

## Purpose of Application

The purpose of this application was to register Rainbow Glyphosate Technical, a new source of the active ingredient glyphosate, based on registered precedent products.

## Chemistry Assessment

Common Name: Glyphosate
IUPAC* Chemical Name: *N*-(phosphonomethyl)glycine
CAS† Chemical Name: *N*-(phosphonomethyl)glycine

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

Rainbow Glyphosate Technical has the following properties:

| Property | Result |
|---|---|
| Colour and physical state | White powder |
| Nominal concentration | 98.64% |
| Odour | Characteristic odour |
| Density | 1.53 g/mL at 20°C |
| Vapour pressure | 5.82 mPa at 20°C |
| pH | 1.9 (1% aqueous dilution) |



Canada

| Property | Result | |
|---|---|---|
| Solubility in water | pH | Solubility (g/L) |
| | 2.0 | 10.22 |
| | 4 | 312 |
| | 7 | >1000 |
| | 9 | >1000 |
| n-Octanol/water partition coefficient | pH | log $K_{ow}$ |
| | 2.5 | -5.11 |
| | 4 | -5.22 |
| | 7 | -5.48 |
| | 9 | -5.19 |

The required chemistry data for Rainbow Glyphosate Technical have been provided, reviewed, and found to be acceptable.

**Health, Environmental, and Value Assessments**

Health, environmental, and value assessments were not required for this application.

**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 Rainbow Glyphosate Technical.

## References


| PMRA Document Number | Reference |
|---|---|
| 3669564 | 2023, Manufacture Process of Glyphosate Technical, DACO: 2.11,2.11.1, 2.11.2,2.11.3,2.11.4 CBI |
| 3669565 | 2023, The Justification of Impurities of Glyphosate Technical, DACO: 2.11.4 CBI |
| 3669568 | 2023, Glyphosate Technical: Complete Analysis of Five Batch Samples, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI |
| 3669569 | 2023, Glyphosate Technical: Analysis of [CBI removed] in Five Batch Samples, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI |
| 3669570 | 2024, Glyphosate Technical: Determination of the Physico-chemical Properties, DACO: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.15,2.14.2, 2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.14.9,830.7000 CBI |
| 3669571 | 2024, Glyphosate Technical: Determination of the Accelerated Storage Stability at Normal and Elevated Temperature with Metals and Metal Ions, DACO: 2.14.13 |
| 3669572 | 2024, Glyphosate Technical: Determination of the Accelerated Storage Stability and Corrosion Characteristics, DACO: 2.14.14 |