Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2020-5881
Application: Submissions Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
Product: TR Glufosinate ammonium TC
Registration Number: 34437
Active ingredient (a.i.): Glufosinate ammonium
PMRA Document Number: 3313994

Purpose of Application

The purpose of this application was to register a new source of technical, TR Glufosinate ammonium TC, based on a registered precedent product.

Chemistry Assessment

Common Name: Glufosinate-ammonium
IUPAC* Chemical Name: ammonium (2*RS*)-2-amino-4-(methylphosphinato)butyric acid
CAS† Chemical Name: 2-amino-4-(hydroxymethylphosphinyl)butanoic acid monoammonium salt

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

TR Glufosinate ammonium TC has the following properties:

Property	Result
Colour and physical state	White, solid
Nominal concentration	96.7%
Odour	Odourless
Density	1.33 g/mL (20°C)
Vapour pressure	0.00006 mPa (20.0°C) 0.00019 mPa (25.0°C)
pH	5.65 (1% solution)
Solubility in water	850 g/L (pH 6.8)

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Property	Result
n-Octanol/water partition coefficient	K_{ow} < -1.85 (pH 7.0)

The required chemistry data for TR Glufosinate ammonium TC have been provided, reviewed, and found to be acceptable.

Health Assessments

TR Glufosinate ammonium TC was of low acute toxicity via dermal route of exposure. It was of slight acute toxicity via the oral and inhalation routes of exposure. It was non-irritating to the eyes and the skin and was not a skin sensitizer in guinea pigs.

Exposure assessments were not required for this application.

Environmental and Value Assessments

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 sufficient to support the registration of TR Glufosinate ammonium TC.

References

PMRA Document Number	Reference
3182460	2020, Additional Product Chemistry for Downforce AG, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.3.1, 3.5.11, 3.5.12, 3.5.13, 3.5.15, 3.5.4, 3.5.5
3182462	2020, Sipcam Downforce AG Formulation Process, DACO: 3.2.1, 3.2.2, 3.2.3 CBI
3181875	2020, Acute oral toxicity, DACO: 4.2.1
3181876	2020, Acute dermal toxicity, DACO: 4.2.2
3181877	2020, Acute inhalation, DACO: 4.2.3
3181878	2020, Primary eye irritation, DACO: 4.2.4
3181879	2020, Primary dermal irritation, DACO: 4.2.5
3181880	2020, Dermal sensitization, DACO: 4.2.6