



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2022-3530
Application: Changes to a Technical Grade Active Ingredient (Product Chemistry) – New Source (Site) Same Registrant
Product: NewAgco Glufosinate Technical
Registration Number: 30613
Active ingredient (a.i.): Glufosinate-ammonium
PMRA Document Number: 3545606

Purpose of Application

The purpose of this application was to amend the registration of NewAgco Glufosinate Technical to include a new source of glufosinate-ammonium.

Chemistry Assessment

Common Name: Glufosinate-ammonium
IUPAC* Chemical Name: ammonium [(3*RS*)-3-amino-3-carboxypropyl]methylphosphinate
CAS† Chemical Name: 2-amino-4-(hydroxymethylphosphinyl)butanoic acid
monoammonium salt

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

NewAgco Glufosinate Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.5%
Odour	Odourless
Density	1.3712 g/mL at 20 °C
Vapour pressure	9.55×10^{-5} Pa at 20 °C
pH	5.79
Solubility in water	1370 g/L at 22 °C
n-Octanol/water partition coefficient	Log P _{ow} < -1.77

The required chemistry data for NewAgco Glufosinate 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 amendment of NewAgco Glufosinate Technical to include a new source of glufosinate-ammonium.

References

PMRA

Document

Number

Reference

3374789	2021, Qualitative and Quantitative Profile of Glufosinate-ammonium Technical (Five Batch Analysis), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3374793	2022, Impurities Justification of Glufosinate-Ammonium Technical, DACO: 2.11.4 CBI
3374794	2022, Manufacture Process of Glufosinate-Ammonium Technical, DACO: 2.11.1,2.11.2,2.11.3 CBI
3450244	2023, Analytical method validation and content of [CBI Removed] in Glufosinate-ammonium Technical, DACO: 2.13.3 CBI

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