

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2017-1273
Application: Changes to the Technical Grade Active Ingredient Product
 Chemistry-New Source(site) same registrant
Product: Glufosinate Ammonium Technical Herbicide
Registration Number: 23178
Active ingredients (a.i.): Glufosinate-ammonium
PMRA Document Number: 2860086

Purpose of Application

The purpose of this application was to register another manufacturing site for the technical grade active ingredient Glufosinate Ammonium Technical Herbicide.

Chemistry Assessment

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

Glufosinate Ammonium Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White Crystalline Solid
Nominal concentration	95.5 %
Odour	Slight pungent odour
Density at 20°C	1.4 kg/L
Vapour pressure at 20°C	<0.1 mPa
pH	7.0 ±1 (1% w/v)
Water solubility at 22°C	1370 g/L
n-Octanol/water partition coefficient (K _{ow}) at 22°C	Log K _{ow} < 0.1 at pH 7

The chemistry requirements for Glufosinate Ammonium Technical Herbicide have been completed.

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 available information and has found it sufficient to register another manufacturing site for the technical grade active ingredient Glufosinate Ammonium Technical Herbicide.

References

PMRA Document Number	References
2740203	2016, Manufacturing process for glufosinate-ammonium (Grignard route for registration), DACO: 2.11.1,2.11.3,2.11.4 CBI
2740204	2017, Glufosinate-ammonium technical grade active substance - Justification of certified limits, DACO: 2.12.1 CBI
2740205	2015, Qualitative and quantitative profile of the test substance glufosinate-ammonium 95 percent technical (Five batch analysis), DACO: 2.12.1,2.13.1,2.13.3 CBI
2817878	2017, Glufosinate ammonium Description of the Manufacturing Process of the Technical Grade Active Substance [CBI Removed], DACO: 2.11,2.11.1,2.11.2,2.11.3 CBI
2821676	2015, [CBI Removed] - Raw Data for the Analysis, DACO: 2.13.4 CBI
2852605	2015, Qualitative and quantitative profile of the test substance glufosinate-ammonium 95 percent technical (Five batch analysis), DACO: 2.13.3 CBI
2852606	2018, Qualitative and quantitative profile of the test substance glufosinate-ammonium 95 percent technical (Five batch analysis)-[CBI Removed] Raw Data, DACO: 2.13.3,2.13.4 CBI

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